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RESOURCES FOR DEVELOPMENT

DIRECTORY OF DEVELOPMENT RESOURCES

U.S.-Based, AID-Funded Services
International, Regional, and National Institutions
Newsletters and Journals
Data Base Services

November 1983



**U.S. Agency for International
Development (AID)**

The views and interpretations in this publication are those of the authors and do not necessarily represent official policy of the Agency for International Development.

**Compiled by Marcia D. Roman
Creative Associates, Inc.
Washington, DC**

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**U.S. Agency for International Development
Bureau for Science and Technology
Office of Technical Review and Information
Division of Publications and Information**

NOVEMBER 1983

INTRODUCTION

This Directory is produced by the U.S. Agency for International Development (AID), Bureau for Science and Technology, Office of Technical Review and Information, Publications and Information Division (S&T/TRI/PI), to provide, in simple form, a multisector listing of development-oriented resources both in the United States and abroad. These resources include data bases, information clearinghouses, newsletters and journals, technical support services, and field research facilities, which are available to development workers in more than one country; each project or institution described provides at least two of these services.

This publication is divided into two major sections: International, Regional, and National Organizations and U.S.-Based, AID-Funded Services. The U.S.-based services included are carried out by U.S. institutions under contract to the Agency for International Development. Services listed for any U.S. institution are not inclusive of that institution's capabilities; the descriptions are of services offered through AID-funded projects only.

This Directory lists only those private voluntary organizations (PVOs) working on AID-funded projects. International, regional, and national institutions outside the United States were recommended by AID missions. Newsletters, journals, and data bases are listed at the end of the book.

The profiles of both the U.S. and non-U.S. institutions are based as closely as possible on the descriptions provided by the institutions themselves. Except for making minor editorial changes, the compiler has not attempted to interpret any remarks made by the institutions that submitted completed descriptions.

AID welcomes any comments on the format and content of the Directory. Any comments or requests for additional copies should be sent to:

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Directory of Development Resources
S&T/TRI/PI, Room 209, SA-18
U.S. Agency for International Development
Washington, DC 20523 U.S.A.

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INTERNATIONAL, REGIONAL, AND NATIONAL ORGANIZATIONS

AGRICULTURAL FINANCE CORPORATION, LTD. (AFC)

Principal Officer
Mohammed Ghulam Ghouse, Managing Director

Telephone Number
242924

Contact Officer
B.V.S. Balinga, Director
Planning and Coordination

Telex Code
011-5849 AFCU

Address
Agricultural Finance Corporation, Ltd.
Dhanraj Mahal, C S M Marg
Bombay 400 039, India

Cable Code
AGFINCORP, Bombay

Regional and Branch Offices

Regional offices at Calcutta, Lucknow, Madras; and branch offices at Bhopal, Chandigath, Kota, Patna, Shillong, Surat, Trivandrum, and New Delhi.

Relationships with Governments and Other Development Organizations

AFC helps its member banks participate actively and extensively in financing agricultural development through identification, formulation, and appraisal of bankable projects. It also provides its services to Indian state governments and public sector corporations, individual entrepreneurs, and others in formulating projects to be financed by commercial banks and other development agencies. AFC is an accredited consultant to the Food and Agriculture Organization (FAO)/World Bank Investment Center, Asian Development Bank (ADB), International Fund for Agricultural Development (IFAD), the World Bank, and Islamic Development Bank.

Member Organizations or Governments

Though purely a regional organization in India, floated by the commercial banks, AFC undertakes consultancy assignments abroad, especially in the developing countries, which are to be funded by international financial institutions such as the International Bank for Reconstruction and Development (IBRD), IFAD, ADB, FAO/World Bank Investment Center, Islamic Development Bank, international private corporate bodies, and other development agencies. AFC is a member of APRACA and FAO/Bankers' Program.

Objectives

The major objective of the Corporation is to create absorptive capacity for credit in agriculture and allied sectors in rural areas. Emphasis is laid on development of the weaker sections and the less developed areas hitherto not catered to by the financial institutions by formulating bankable projects. This is with a view to involving institutional financing agencies in development efforts.

History

The AFC was started in 1968 by 37 commercial banks included in the second schedule attached to the Reserve Bank of India Act.

Personnel

The core professional staff of the AFC comprises experts in all major fields of agriculture and rural development such as integrated rural development, agroindustries, irrigation and water management, livestock development and animal husbandry, modern abattoirs, fisheries (both marine and inland), energy development, economic and financial analysis, and agricultural marketing, including regulated markets, agro-processing, infrastructure development, etc.

The total number of experts with the Corporation varies from time to time as, depending on the assignment, experts are engaged on a regular or contractual basis. At present these professionals number about 200, both permanent and contractual. They include agronomists, irrigation and water management specialists, forestry and agroindustries specialists, agricultural engineers, economists and financial analysts, social anthropologists, geohydrologists, specialists in agricultural marketing and processing, experts in livestock and abattoirs, dairy development specialists in socioeconomic surveys, agricultural credit, statistics, cost accountancy, plantation crops, training, and research.

A majority of these experts have experience in project identification and formulation. Quite a few of them have worked on international assignments for the ADB, Bank, FAU/World Bank Investment Center, and IFAD.

Physical Facilities

Physical facilities include a library as well as all of AFC's Reports and other publications, all publications of the member banks, and official reports of the central and state governments, and the audiovisual aids and other equipment and training facilities of member banks.

Library

The AFC has a Library of more than 5,000 publications on agriculture, irrigation and water management, animal husbandry, fisheries, forestry, agroindustries, financial analysis, agronomy, crops planning, rural development, marketing, finance, banking, statistics, management, yearbooks, as well as the publications of member banks and official reports of central and state governments. Special services available include data bank and documentation. Use can be made of the Library by all research and development agencies at a charge which is negotiable.

Information Exchange

Information available in the English language can be made use of by member banks and other developmental agencies, as well as research workers engaged in agriculture and rural development work with the prior permission of the office at the above address. This information is available in the form of documentation newsletters, data bank facilities, area profiles of some of the Asian and African countries.

Publications

Financing Agriculture, a technical quarterly, is published in English and distributed to about 4,500 professionals engaged in agriculture and rural development. The charge for subscription is U.S. \$25. Subscription inquiries should be directed to the Information and Public Relations Officer.

Data Bank

District and area information on agriculture and rural development in India can be used by development agencies. Inquiries can be made to the Librarian.

Research

Techno-economic feasibility studies, socioeconomic studies, social feasibility studies, raw material availability studies, market research and credit demand studies, monitoring and evaluation studies, and systems development are conducted in the following fields of inquiry:

- o agricultural financing by commercial banks;
- o fertilizer consumption and factors inhibiting fertilizer;
- o regional rural banks;
- o working on Farmers' Service Societies.

Training

Short duration courses and workshops are given on identification, formulation, implementation, and evaluation of agriculture and rural development projects, and collection, processing, and appraisal of agricultural loan applications. Programs are organized for all levels of technical and banking staff, middle and senior level staff of government, banks, and development agencies. Duration of the program is decided taking into consideration the type of program, level of personnel involved, etc. Programs are organized on request and fees are based on the nature of the program, number of trainees, country or place where organized, duration, etc.

Consulting Services

Consultancy services are available for project identification, formulation, and appraisal of agricultural and rural development projects as well as for organizing training programs. Services of experts can be made available for preparation and appraisal of agricultural and rural development projects, as well as for institution building and advising on implementation of projects. AFC can mount missions to conduct prefeasibility and feasibility studies of agricultural and rural development projects at a consultancy fee which could be negotiated. Monitoring and evaluation and impact studies are also being undertaken.

Funding

For purposes of project preparation, research, and evaluation, the Corporation may receive the funds under mutually agreeable terms.

APPROPRIATE TECHNOLOGY DEVELOPMENT ORGANIZATION (ATDO)

Principal Officer

Mr. Asif Ali Sheikh, Vice Chairman

Telephone Numbers

24483, 28349, 24429

Contact Officer

Dr. M. Jamil Mehar

Cable Code

Appro Tech

Address

Appropriate Technology Development Organization

1-B, St. 47 F-7/1

P.O. Box No. 1306

Islamabad, Pakistan

Relationships with Governments and Other Development Organizations

As a government organization, ATDO collaborates with government, semi-government, and other organizations which are conscious of the need to develop economical and investment-saving oriented projects and practical, simple equipment for resources utilization and conservation. It is a regional organization, which shares experiences with international organizations such as ITDG (United Kingdom), GATE (Federal Republic of Germany), ATDA (India), VITA (U.S.A.), ABHD (Bangladesh), ILO, WHO, UNICEF, and other similar agencies. This is done through exchange of information and literature.

Objectives

The main objective of the organization is to simplify technologies to a level which could be easily adopted by the rural people (unskilled or semi-skilled). The organization is also engaged in the extension of various technologies in the least developed areas of the country. The major fields of activities are:

- o energy (biogas, hydro-power plant, energy conversion, cook-stoves, etc.);
- o food and agriculture;
- o small-scale industry.

History

The government envisaged that the pattern of technological and industrial development followed so far in the country has deprived the rural population of participating and benefiting from the process of modernization, technological development, and socioeconomic reconstruction. This situation resulted in exodus from rural to urban areas with slum formation in the cities. To cope with this situation, the government visualized the introduction of small-scale technologies appropriate to the resources endowment of the country, i.e., between the traditional and sophisticated technologies.

Personnel

ATDO has the following professional staff: civil engineer, mechanical engineer, chemists (organic, analytical, and physical chemistry), technical

officer, economist, field staff of skilled personnel, and an assistant public relations officer. The services of scientists and experts from different research and development agencies and universities are also utilized.

Physical Facilities

The organization, located in the capital city, has a Library and conference room; there are field stations in all the provinces of the country. The services of national radio and TV networks are utilized from time to time for motivational/promotional purposes. It has close linkages with existing R&D institutions for evolving/adapting appropriate technologies.

Information Exchange

The technical information in the organization's Library is available for exchange in English, on a reciprocal basis. Information is routinely exchanged with the previously mentioned international organizations. Inquiries should be directed to the address given above.

Publications

Six Monthly Progress Reports are issued biannually in English to 1,000 government officials, governments, and other agencies involved in the appropriate technology field.

Research

Research is organized in various fields.

Energy:

- o mini/micro hydro plants;
- o biogas--development of an integrated biogas generation system;
- o hydraulic water wheel to utilize the energy of flowing water streams;
- o energy conservation--development of improved design of stove of chulla to minimize the heat wastage.

Food and agriculture: dehydration of fruits and vegetables; fast-growing, economical trees.

Habitations: low cost construction based on pre-costed components.

Cottage industry: handmade matches; paper manufacture.

Basically this organization is not research oriented. The approach is to procure technologies from inside and outside the country, and the selected technologies are then subjected to field tests, to study their variability and to affect modification. These trials are being done in collaboration with other institutes and organizations where facilities for such experiments exist. The R&D work is being carried out in existing R&D agencies, i.e., PCSIR, engineering and technology universities, Ayub Agricultural Research Institute, Irrigation Drainage Flood Control Research Council, and others.

Consulting Services

The organization works through various R&D agencies as consultants.

Requirements and Criteria

ATDO shares experiences on a reciprocal basis, and provides information on request. There is no particular prerequisite or restriction for potential users of the services.

ASEAN AGRICULTURAL DEVELOPMENT PLANNING CENTER (ADPC)

<u>Principal Officer</u>	<u>Telephone Number</u>
Dr. Somporn Hanpongpanh, Director	5790626

<u>Address</u>	<u>Cable Code</u>
ASEAN ADPC Kasetsart University Campus Phaholyothin Road, Bangkok Bangkok 10900, Thailand	ASEAN ADPC

Relationships with Governments and Other Development Organizations

ADPC is a regional organization. Its member governments are Indonesia, Malaysia, Philippines, Singapore, and Thailand. ADPC is under control of the Board of Planners, the Chairman of which is Dr. Somnuk Sriplung, who is also the Secretary General of the Office of Agricultural Economics of the Thai Ministry of Agriculture and Cooperatives. A representative of AID is responsible for the direct coordination with ADPC and the Thai government.

In addition, Kasetsart University (KU) provides teaching staffs for ADPC's Technician Group participants. The Director of KU's Applied Economic Research Center, Dr. Sopin Tongpan, Faculty of Economics and Business Administration, also serves as a member of the Expert Advisory Group for the Center.

Objectives

The objectives of the Center are: to strengthen the agricultural planning capability of all ASEAN member nations; and to apply the acquired expertise in agricultural development planning on the regional (in-country), national, and international levels.

History

The ADPC was established in August 1980, when a grant agreement for the project was signed by AID and by the Thailand Ministry of Agriculture and Cooperatives and development planning agencies of all ASEAN countries. Staff recruitment commenced in November 1980, with the appointment of the Director, and operations commenced when the first project funds were received in January 1981.

Personnel

The ADPC senior staff includes a data processing and systems analyst, a statistician, an agricultural regional planner/researcher, three agricultural economists, a Deputy Director, and the Director.

Physical Facilities

There are two classrooms, a conference room, a full set of audiovisual aids, telex, and a mini computer, as well as an on-line computer system attached to that of the Thailand Ministry of Agriculture and Cooperatives. A library and information exchange provide services to agricultural development planning agencies of ASEAN countries and to non-ASEAN institutes as well.

Research

Categories of research include:

- o systems and procedures for collecting, collating, and processing, as well as utilizing, data for agricultural development planning within the region;
- o ASEAN Development Model for Agricultural Planning (ADMAP);
- o agricultural project formulation, monitoring, and evaluation systems;
- o measures to increase incomes of the target groups;
- o ASEAN food security;
- o studies on the production and marketing of strategic agricultural products namely rice, rubber, palm oil, etc., in the ASEAN region; and
- o nutrition.

Training

The Center presently conducts three different training programs in agricultural planning, namely: the short-term Special Group Program, the medium-term Micro Group Program, and the long-term Technician Group Program.

1. The Special Group Program (SG) is a training course specially arranged for senior agricultural researchers, planners, and policy analysts from ASEAN countries. It is a one-week course given in the form of a seminar or workshop on specific analytical techniques, some examples of which are linear programming, econometrics, input-output analysis, etc.

Participant Groups and Periods Three different SG programs are planned for 1983. These are:

Special Group 1 on Linear Programming--April 1983

Special Group 2 on ASEAN Development Model--August 1983

Special Group 3 on Econometrics--December 1983

2. The Technician Group Training Programme (TG) is for the technical people of the ASEAN countries who would be responsible for the planning, research, and/or policy analysis in the field of agricultural economics in their respective countries.

Qualification of Participants

- (1) A B.S. degree in economics, agricultural economics, agriculture, statistics, or academic programs in agricultural development,
- (2) experience in the field of agricultural development policy analysis or agricultural statistics in their home countries for at least two years,
- (3) age between 25 and 40,

- (4) familiarity with current and potential agricultural situation in their home countries, and
- (5) good English proficiency.

Participant Groups and Periods

Technician Group 1 (TG1)	August 1981-October 1983
Technician Group 2 (TG2)	March 1982-June 1984
Technician Group 3 (TG3)	March 1983-June 1985

Training Courses and Schedules

A. Refresher Course Program (March-May)

- (1) English
- (2) Mathematics
- (3) Microeconomics
- (4) Statistics
- (5) Macroeconomics
- (6) Special Topics

B. Graduate Course Program at Kasetsart University

First Semester (June-October)

GC 1 (Econ. 511)	Microeconomic Theory I (3)
GC 2 (Ag. Econ. 531)	Agricultural Market and Price Analysis (3)
GC 3 (Ag. Econ. 581)	Advanced Quantitative Analysis in Agricultural Economics I (3)
GC 4 (Ag. Econ. 583)	Advanced Quantitative Analysis in Agricultural Economics III (3)

Second Semester (November-March)

GC 5 (Ag. Econ. 522)	Analysis of Agricultural Production (3)
GC 6 (Econ. 512)	Macroeconomic Theory I (3)
GC 7 (Ag. Econ. 582)	Advanced Quantitative Analysis in Agricultural Economics II (3)
GC 8 (Ag. Econ. 553)	Advanced Agricultural Resources Economics (3)

Summer I (April-May)

GC 9 (Ag. Econ. 597)	Seminar I (1)
GC 10 (Ag. Econ. 582)	Special Problem: Socio-Cultural Institutional Factors in Development

Third Semester (June-October)

GC 9 (Ag. Econ. 597)	Seminar II (1)
GC 11 (Ag. Econ. 591)	Advanced Research Methodology (3)
GC 12 (Econ. 544)	Economics of Project Analysis (3)
GC 13 (Ag. Econ. 561)	Advanced Agricultural Policy (3)
GC 14 (Econ. 597)	Seminar I (1)
GC 15 (Ag. Econ. 599)	Thesis (2)

Fourth Semester (November-March)

GC 15 (Ad. Econ. 599)	Thesis (3)
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Summer II (April-May)

GC 15 (Ag. 599)

Thesis (4)

Comprehensive Exam: Third or fourth semester

Oral Thesis Examinations: Fourth semester

3. The Micro Group Training Program (MG) is a six-month training course designed for regional planners in agriculture from ASEAN countries whose qualifications are more or less the same as those of the TG participants and who form a three-person group from the following combinations: a representative of the national agricultural planning office, a representative of the regional (in-country) agricultural planning office, and a representative of implementing agencies in pilot areas.

Courses and Activities

- (1) Economic and Social Development Concepts (Lecture)
- (2) Applied Mathematical and Statistical Techniques in Planning (Lecture)
- (3) Project Formulation and Manipulation (Lecture)
- (4) Special Topics in Agricultural Development (Lecture)
- (5) Classroom case studies
- (6) Study/reading hours
- (7) Field trip
- (8) Preparation of pilot project proposals
- (9) Presentation and finalization of the pilot project proposals

Schedule

<u>Courses/Activities</u>	<u>Time Schedule</u>
1-6	1st-12th week
7	13th-15th week
8	16th-23rd week
9	24th-26th week

Participant Groups and Periods

Micro Group 1	March 1-August 31, 1982
Micro Group 2	March 1-August 31, 1983
Micro Group 3	March 1-August 31, 1984

Allowance and Grant

	SG	TG	MG
Living and Lodging	\$ 50/Day	\$ 300/Month	\$ 300/Month
Books	-	\$ 400/Year	\$ 200/Course
Travel Allowance	-	\$ 15/Day	\$ 15/Day
Project Preparation Expense	-	\$ 500	-
Thesis Grant	-	\$ 500	-

Degree or Certificate

<u>Awarded:</u>	Certificate	M.S. Degree	Certificate
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Consulting Services

Requests for the research, planning, and project evaluation staffs for consulting services will be reviewed and decided on by the Board of Planners.

ASIAN AND PACIFIC COCONUT COMMUNITY (APCC)

Principal and Contact Officer
Godofredo Reyes, Executive Director

Telephone Number
327-508 Ext. 240

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Asian and Pacific Coconut Community
4th Floor Gedung Jaya
Jalan Thamrin
Jakarta, Indonesia

Telex Code
45141 SARINAH IA

Cable Code
COCOMUN Jakarta

Mailing Address
Asian and Pacific Coconut Community
P.O. Box 343
Jakarta, Indonesia

Relationships with Governments and Other Development Organizations

Plenipotentiary representatives of member governments compose the highest governing body of the Community, meeting annually at a session. Each member government has a designated liaison officer in an appropriate ministry with the Community's secretariat.

Regional coconut programs/projects are carried out through the assistance of United Nations Organizations and Specialized Agencies (UNIDO, ITC, FAO, UNDP, and ESCAP). The Community has close working relations with ESCAP which has a regular Consultative Committee of Commodity Bodies.

Member Organizations or Governments

Governments of India, Indonesia, Malaysia, Papua New Guinea, the Philippines, Sri Lanka, Solomon Islands, Thailand, Vanuatu, and Western Samoa are full Members. The Trust Territories of the Pacific Islands is an Associate Member.

Objectives

The basic purpose of the Community is to forge economic and other forms of cooperation for the development of the coconut industry. APCC services the coconut industry in the fields of coconut production, processing, marketing, and research, through common studies, information, representation, and consultation. Support resources (financial, technical, and others) are generated to accelerate the coconut's development, protection, and promotion.

History

Conceived and sponsored by ESCAP, the Community was inaugurated in Colombo, Sri Lanka, in September 1969, with an initial membership of six countries: India, Indonesia, Malaysia, the Philippines, Sri Lanka, and Thailand. The organization and its relationship are governed by the "Agreement Establishing the Asian Coconut Community," an instrument deposited with the Secretary-General of the United Nations. The Community's secretariat was established in Jakarta in February 1971. The Government of Indonesia provides host facilities; other Community operations and its secretariat are financed from annual contributions from the member countries.

Personnel

The Community operates a secretariat headed by an executive director. The principal expertise of staff members is in coconut production, processing, and marketing. At present the secretariat has two senior staff, four junior staff, concentrating on processing and marketing functions.

Library

The Community Library contains approximately 1,000 volumes concerned with coconut production, processing, and research; trade and market statistics; and trade information. Minimal out of pocket expenses are charged for use. Inquiries should be addressed to APCC.

Information Exchange

The Community provides an information exchange (in English) on coconut production, processing, markets and trade intelligence, development programs, individual countries' situation, in connection with ESCAP's Trade Information Service, at a cost of U.S. \$50 annually. Inquiries should be addressed to APCC.

Publications

The Cocomunity Newsletter and the Cocomunity Quarterly Supplement are both published in English, the Newsletter twice a month and the Supplement quarterly. Their circulation of 300 is among government ministries, trading firms, and institutional development organizations. A subscription for both costs U.S. \$35 annually. Inquiries should be addressed to APCC.

Research

Subjects for inquiries are suggested by member countries for the Community's research and development activities on coconut production development, agricultural and process design. Research is carried out by individual member countries of the Community and UN regional programs; also by such institutions as the Commonwealth Secretariat, the Tropical Products Institute, and some private firms such as AB Scarab.

Training

The Community organizes from time to time study tours for coconut technicians of member countries. The Community has a Permanent Panel on Coconut Technology (COCOTECH) which regularly meets and in which participation by private firms and individuals is encouraged. COCOTECH aims to provide opportunities for improving the professional competence of coconut technicians.

Consulting Services

The Community provides information to member governments on sources of specialized consultancy services.

ASIAN INSTITUTE FOR RURAL DEVELOPMENT (AIRD)

Principal Officer
Mr. M. V. Rajasekharan
Executive Trustee and Coordinator

Telephone Number
601383

Address
Asian Institute for Rural Development
7/A Ratnavilasa Road
Basavanagudi
Bangalore-560 004, India

Cable Code
ASIANCARE Bangalore

Relationships with Governments and Other Development Organizations

The Institute is a nongovernmental, autonomous, nonpolitical, nonsectarian, nonracial, nondenominational, and noncommercial organization in Asia sponsored by Asian people who have been working in the field of rural development in the villages with the rural poor for the past many years. It is an institution sponsored by the rural people for the rural people. As a nongovernmental organization, it is flexible and innovative in its approach and free from red tape and interference and, therefore, can play a vital role in the field of integrated rural development.

Field offices are located in Seethalawadi village, Kanakapura Taluk, Bangalore District, and at Kaggalipura, South Taluk, Bangalore.

Member Organizations

AIRD is a regional organization, and as a nongovernmental, independent, charitable trust is registered in Bangalore, India. Its members are Sarvodaya Shramadana Sangamaya, Inc., in Sri Lanka, and the Tibetan Refugee Aid Society of Canada.

AIRD has formal relationships with a number of voluntary organizations, governments, and institutions throughout the world who extend cooperation and assistance to it.

Objectives

The objective of the Institute is to undertake problem-oriented scientific research and result-oriented projects in the field of integrated rural development, specifically:

- o to collect and disseminate information about the methods, strategy, plan of action, and techniques for speedy rural development;
- o to evaluate the plans, programs, and projects of the government as well as NGOs for the benefit of the rural poor;
- o to evolve an operational strategy to remove constraints in rural development to increase production, to develop greater employment potential, and to provide minimum needs to the rural poor;
- o to evolve appropriate technology for the benefit of rural artisans;

- o to promote and stimulate rural youth and rural women in integrated rural development;
- o to arrange for training of rural development workers; and
- o to sponsor, organize, or support national, regional, and international meetings, conferences, seminars, and workshops.

History

The Asian scene is unique with poverty amidst plenty. Blessed with abundant natural resources and vast human power, the region has a majority of its population living in rural areas subsisting below the poverty line. There was need to explore new and innovative approaches to uplift the rural poor in an integrated rural development planning and to indicate practical solutions to the challenging problems in the fields of agriculture, animal husbandry, rural industries, etc. Like-minded persons of different nations in the Asian region felt the need of tackling the problem on a wider plane in a coordinated way, culminating in the establishment, in 1976, of the Asian Institute for Rural Development as a Public Charitable Trust under the Indian Charitable Trusts Act of 1882, with Headquarters at Bangalore. The founding group of five Trustees came from India, Thailand, and Sri Lanka.

Personnel

Members of AIRD's permanent staff have expertise in general science, agricultural science, sericultural technology, animal husbandry, and economics and arts. Additionally, AIRD can call upon a board of advisors and a panel of consultants when their services are required.

Physical Facilities

The Institute has a lecture hall, Library, dormitory, guest house, and transport vehicles. There is also a full-fledged silkworm egg production center with a fully equipped laboratory for testing and production of silkworm eggs. Additionally, the Institute operates the Center for Transfer of Technology in Sericulture, and training facilities at the field offices for self-employment projects especially for women.

Library

The 1,136 volume Library concentrates on rural development, sociology, planning, marketing, and appropriate technology. A special section is devoted to the transfer of technology in sericulture. All those interested in rural development in the Asian region may use the Library for a nominal charge.

Information Exchange

The Institute offers information exchange services in English on integrated rural development, tropical sericulture technology, and community development. The services are available to all persons interested in rural development in the Asian region. Charges would depend on the individual case.

Publications

A list of the Institute's extensive publications may be obtained by contacting AIRD.

Research

The Institute's research looks for practical solutions to the problems in the fields of agriculture, rural and cottage industries, marketing, communication, education, ecology, environments, and institutional infrastructure through planning and implementation of models in integrated rural development.

Training

The Institute offers training in a variety of approaches, including land reform and rural development, development of animators and workers in the Asian Rural Service Corps, and rural orientation for agricultural scientists. One month courses are offered in tropical sericulture technology, land and water use management, cooperation and credit management, and buffalo breeding. All courses are conducted in English. Details are available from AIRD. Any interested student is eligible provided s/he is over 18 and has a good command of English.

Consulting Services

AIRD provides rural development experts, project experts, educators, designers, implementers, advisors, and consultants to governments and NGOs in the Asian Region.

Special Services

AIRD undertakes to provide all facilities for organizing conferences, seminars, and workshops on all topics consistent with its aims and objectives. The services are available to all government, nongovernment organizations, and voluntary agencies in the Asian region working in the field of rural development of the rural poor in the Asian region.

ASIAN INSTITUTE OF MANAGEMENT (AIM)

Principal and Contact Officer
Gabino A. Mendoza, President and Dean

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87-40-11 to 19

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Telex Code
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Cable Code
AIMANILA

Mailing Address
Asian Institute of Management
MCC P.O. Box 898
Makati, Metro Manila
Philippines, 3117

Relationships with Governments and Other Development Organizations

AIM was originally established by the Ateneo de Manila University and De La Salle University, both in Manila, and has remained a nonprofit affiliate of those two schools.

Objectives

AIM is a graduate school established to prepare men and women for managerial leadership in Asian business, government, and related areas. The Institute has set as its prime objective the education and training of managers who will understand the cultural environment of Asia and will thus be able to develop its resources while preserving its traditions and values. The management education programs at AIM are uniquely designed to meet Asian needs. Because of this, AIM graduates have no difficulty in finding important, challenging, and well-paying positions. AIM has five major programs for the development of managers. Each program enrolls men and women and, for its duration, requires the full-time participation of its students. The Institute does not accept part-time or transfer students.

The primary learning tool at AIM is the case method. Lectures, readings, role playing, simulation, report writing, business games, and films are supplementary aids used at appropriate times in the program. A case is usually a problem situation taken from real life, wherein a manager is required to make a decision. The cases are commonly drawn from business, but a number come from government and nonprofit organizations. The task of the case analyst is to put himself in the position of the manager (whether he be a plant superintendent, marketing director, treasurer, bureau director, etc.), and, through an analysis of the facts given in the case and the evaluation of the alternatives available, arrive at a decision. Frequently, the decision will also require formulating a detailed plan of action.

After having made their analyses individually and having arrived at tentative decisions, students meet in small groups of five to ten people to discuss the case. Often students discover that in their analyses they have overlooked some important consideration which causes them to modify their conclusions. In class, students present and discuss their analyses under the guidance of a

faculty member who may challenge them on their assumptions, interpretation of case evidence, definition of the problem, objectives, practicability of recommendations, and so on. In this manner, students learn by doing. They sharpen their judgment and analytical thinking through the process of presenting and defending their reasoning and judgment before a group of their peers.

History

AIM is a private, non-stock, nonprofit, educational organization established under the laws of the Republic of the Philippines, incorporated in September 1968 jointly by Ateneo de Manila University and De La Salle University for the purpose of offering high-quality management education specifically designed to meet Asian needs.

By a presidential decree issued in January 1975, the Asian Institute of Management was declared a graduate educational institution of international character, with an international body, faculty, management composition and control, funding support, programs, curricular offerings, calendar, fee structure, and academic standards.

AIM's corporate policy-making body is the Board of Trustees, made up of representatives of the two founding educational institutions and the business community. To assure the Institute's relevance to the Asian community, academic policies are determined by a Board of Governors composed of distinguished government and business leaders from Asian countries.

The faculty of AIM is composed almost entirely of Asians who have had business experience and have earned advanced degrees, mostly in schools abroad. They are well-equipped to help the student learn from the experience of the West but at the same time face up to the realities of Asian business, culture, and economics.

Personnel

Thirty-two full-time faculty; eight part-time faculty.

Physical Facilities

The fully air-conditioned set of buildings consists of a seven-story dormitory and a three-story structure that house:

- o administration, faculty, secretarial, accounting, admissions, and student association offices;
- o seven amphitheater-type classrooms of various seating capacities;
- o five conference halls each with a seating capacity of 100 persons;
- o residence halls for 269 students, complete with lobby, music and TV lounges, recreation room, and a nondenominational meditation room;
- o cafeteria;

- o health service clinic;
- o swimming pool;
- o printing facilities;
- o three IBM 5110 computer systems and ten microcomputer systems used for educational as well as administrative purposes by students of the different programs and by any professor interested in the various applications. Areas of application include mathematics, statistics, business planning, marketing, and industrial engineering. Inquiries regarding the computers may be addressed to: Mr. Angelo Ramon Tanchoco, Director, Computer Group, Asian Institute of Management.

Library

The AIM Library is a growing collection of 24,000 books, pamphlets, bound periodicals, Asian corporate reports, industry studies, student theses, and microfilms designed to meet the information and research needs of its students, faculty, and alumni, as well as the business community. Books are on open shelves, making it possible for users to locate materials easily and to browse through related ones. A special collection on Asian culture was established recently and includes books and other reading materials on the many aspects of Asia--arts, history, literature, and civilization. Individual study carrels throughout the reading areas, and a separate room, provide for more private study. Other facilities include typing rooms, a photocopying machine, and a micro-film reader-printer.

The Library is open and free of charge to AIM faculty, students, and staff, and M.B.A. students of Ateneo, La Salle, and the University of the Philippines. Outside researchers are charged \$1.50 per visit for the first three visits until the end of the semester.

Information Exchange

Management cases written by AIM staff members are available for sale (minimum order 30 copies) by contacting AIM's case research group.

The Institute is a founding member of the Management Institute's working group in social development, an informal network of third world educational institutions that are actively involved in research on rural development management issues.

Publications

Occasional Paper Series is a series of concept papers, issue papers, teaching notes, research reports, and other types of management papers on various topics in enterprise management in Asia. Individual papers may be obtained for a nominal fee by contacting AIM's Enterprise Management Research Program.

AIMNEWS, a quarterly newsletter, publishes Institute news in English and has a circulation of 500 among members of the Board of Governors, Trustees, faculty, social investors, and related institutions. There is no charge for a subscription. Subscription inquiries should be sent to AIM Scientific Research Foundation, Inc.

Research

AIM conducts applied management research on various topics and issues in enterprise management and development management as practiced in Asia. Among the projects currently in progress or being planned are research studies on small- and medium-scale enterprises, technology management, the Asian "psychological contract," project management, Asian financial systems, and people-centered rural development.

Training

All students must have a thorough knowledge of written and spoken English.

Major Training Programs:

- o A two-year graduate course leading to the degree of Master in Business Management (M.B.M.) for young men and women.
- o A one-year graduate course leading to the degree of Master in Management (M.M.) for experienced managers.
- o A four-week, in-residence, non-degree Top Management Program (TMP) for chief executive officers, presidents, executive vice presidents, and other upper management executives.
- o An eight-week, in-residence, non-degree Management Development Program (MDP) for middle management executives.
- o A four-week, non-degree Basic Management Program (BMP) for first line to middle level managers and functional specialists.

Special Programs

In addition, to meet the need for executives who can deal with new problems in a dynamic environment, "strategic industry" programs have been developed in the areas of key industries requiring current attention, such as transportation and utilities, agribusiness, population programs and health delivery services, financial institutions, and mass communications.

These program offerings are developed in close cooperation with leading institutions in the field and operate through the sponsorship of industry organizations. Typical programs include:

- o Air Transport Course (ATC). A two-week program for members of the Orient Airline Association who are at the middle management level in their respective companies.
- o Advanced Bank Management Program (ABMP). An intensive two-month course designed for bank executives from the middle and upper level management. The program introduces new approaches to a participant's area of expertise as well as new tools and techniques of analysis of bank operations for more effective decision making.

- o Advanced Marketing Management Program (AMMP). An intensive three-week course designed for the functional marketing specialist in the middle- to upper-middle levels of management. The program is geared toward the development of broad managerial skills as well as the demonstration of effective applications of specialized marketing tools and strategies.

In previous years, AIM offered some other special programs such as Program for Airline Company Executives (PACE), National Food and Agriculture Council (NFAC) Program for Agriculture Project Development Evaluation and Management (PAPDEM), and the Population Administrator's Workshop (PAW).

In line with the Institute's continuing effort to meet the needs of the business community, additional special programs in the areas of agriculture, population, and water resource management are expected to be offered in the near future. These programs will help cope with the growing need for development managers, with the Institute determining what a development manager is, as well as identifying those people with the potential to become such managers. Two projects have been undertaken along these lines: the Institutional Development Assistance Program in the area of population program management and the Rural Development Management Program which attempts to understand the rural development process using agricultural development as a point of reference.

Application, Admission, and Tuition

All applicants for degree programs are required to take the AIM Admission Test which is given by AIM representatives at Test Centers all over Asia.

Admission decision is based on the total information obtained from all application materials, including the applicant's academic records, score on the AIM admission test and on the Graduate Management Admission Test (GMAT), work experience, extracurricular or other leadership experience, recommendations, and interview.

All applicants for admission to the degree program (M.B.M. and M.M.) should have:

- o a Bachelor's degree or its equivalent, in any field of concentration (preferably also including mathematics courses);
- o proficiency in the use of English;
- o work experience:
for M.B.M. applicants, two years preferred;
for M.M. applicants, six years, three of which as supervisor or manager;
- o completed application forms (in two copies by applicants from other countries) to be filed with AIM Representative at Test Center;
- o official transcripts of academic records (with a certified English translation if document is in a language other than English);

- o satisfactory score on the AIM Admission Test, or where AIM Test Centers are inaccessible, a satisfactory score on the Graduate Management Admissions Test;
- o recommendations:
M.B.M. applicants: one from former professor; one from current employer;
M.M. Applicants: one from current employer;
- o satisfactory interviews with the Interviewing Panel/Admissions Board.

For information about the tuition fee for each program, write to the Dean, Asian Institute of Management.

ASIAN INSTITUTE OF TECHNOLOGY (AIT)
(Formerly: SEATO Graduate School of Engineering)

Contact Officer

Dr. Ricardo P. Pama
Vice President for Development

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Cable Code

AIT Bangkok

Relationships with Governments and Other Development Organizations

The Institute is an independent, international, educational institution supported by numerous governments and organizations. Through its Continuing Education Program it collaborates with many governments.

Member Governments or Organizations

Donors to the Institute are:

Governments: Australia, Austria, Bangladesh, Belgium, Canada, Denmark, Federal Republic of Germany, France, India, Japan, Nepal, Netherlands, New Zealand, Norway, Philippines, Republic of China, Sri Lanka, Switzerland, Thailand, United States of America, and United Kingdom.

International Agencies: European Economic Community (EEC); Food and Agriculture Organization (FAO); Mekong Committee; United Nations Development Program (UNDP); United Nations Education, Science, and Culture Organization (UNESCO); and World Health Organization (WHO).

Foundations: AIT Foundation Inc., U.S.A.; The Agricultural Department Council, Inc.; Ford Foundation; IDRC, Canada; KEIDANREN, Japan; Lee Foundation, Singapore; OPEC Fund; Rockefeller Foundation, U.S.A.; Starr Foundation.

National Government Agencies: Bank of Thailand; Department of Highways, Thailand; Department of Technical and Economic Cooperation, Thailand; Indonesian National Army; Mahidol University, Thailand; Ministry of Education, Indonesia; Ministry of Education, Malaysia; Rubber Research Institute of Malaysia; and Royal Thai Air Force.

Business and Industries: B.E.S. Engineering (ROC); China Technical Consultants, Inc., (ROC); Chinese Petroleum Corporation (ROC); IBM A/FE; P.T. Caltex Company, Ltd. (Indonesia); Ret-Ser Engineering Agency (ROC); Shell International Petroleum Company; Taiwan Cement Corporation; Taiwan Power Company.

Private: John Marden Family.

Objectives

The primary objective of the Institute is to help serve the technological requirements of the peoples of Asia by providing advanced education in engineering, science, and allied fields through:

- o academic programs leading to the degrees of Master of Engineering, Master of Science, Doctor of Engineering, Doctor of Technical Science; and diplomas;
- o research activities by faculty and students directed towards the solution of technological problems to improve the quality of life in Asia;
- o special programs comprising conferences, seminars, and short inservice training courses.

History

The Institute was founded in 1959 as the SEATO Graduate School of Engineering. In November 1967 the Institute became fully independent under its present title. Its charter, granted by the Royal Thai Government, accords the Institute the status of an autonomous, international institution and empowers it to award degrees and diplomas.

Personnel

There are 80 faculty members in the Divisions of Agricultural and Food Engineering, Computer Applications, Energy Technology, Environmental Engineering, Geotechnical and Transportation Engineering, Human Settlements Development, Industrial Engineering and Management, Structural Engineering and Construction, and Water Resources Engineering. There are also 50 Research Associates and Research Assistants. The Regional Documentation Center has eight Senior Information Scientists. There are also Directors of the Continuing Education Center, the Regional Computer Center, the Library, and the English Language Center, and the Asian Remote Sensing Training Center, and Regional Research Development Center.

Physical Facilities

The Institute's complex of buildings includes:

- o Administration and academic buildings--providing classrooms, a Library, laboratories, and faculty offices; the Institute's well-equipped laboratories are among the best in the region;
- o Conference Center--providing a 600-seat auditorium, simultaneous translation facilities, audiovisual facilities, dining rooms, recreational facilities, and hotel rooms;
- o Regional Computer Center--providing an IBM 3031 computer system and offering educational programs for AIT students and public agencies in the region; the powerful computer was installed in June 1980 to meet the increased demands of the Asian Remote Sensing Training Center at AIT;

- o Energy Technology Building--the first one, completed in 1981 houses the Division of Energy Technology; it will be supplemented with a second building to be completed in 1984;
- o Energy Park--this park has on display solar water heaters, photovoltaic cells, solar refrigerators, several types of windmills, a solar rice dryer, vegetable dehydrators, and various other devices which employ renewable sources of energy;
- o Regional Engineering Experimental Center--providing 10,500 square meters of covered space for experimental research and associated laboratories and offices; an extension begun in 1983 will double the area available.
- o Library and Regional Documentation Center--the largest technical library in Southeast Asia, containing more than 120,000 volumes of books, technical reports, theses, and conference proceedings, and receiving some 2,000 journals; the Library also houses the Regional Documentation Center, which now serves over 1,500 subscribers;
- o Sports Facilities--including a swimming pool; tennis courts; basketball court; football, cricket, and hockey fields; and a nine-hole golf course;
- o Medical Center--providing a well-equipped medical unit with a doctor and supporting staff;
- o Physical Plant--providing workshops and maintenance facilities;
- o Staff Housing--there are 14 houses on campus for faculty and senior staff and staff dormitories with 54 apartments; additional housing for 78 staff members is also available.
- o Dormitories--providing single occupation units and accommodation for married students, giving a total of 616 student places; and
- o Cafeteria--serving a wide variety of inexpensive meals.

Library

The Institute's Library contains 140,000 volumes in the general subject area of engineering, including research reports and conference proceedings. A library block which holds a capacity for 250,000 volumes, the Regional Documentation Center, the English Language Center, and the Office of Academic Services was completed in 1981. Inquiries should be sent to Director, the Library.

Information Exchange

The Asian Information Center for Geotechnical Engineering (AGE) for civil engineering.

The International Ferrocement Information Center (IFIC) for the very versatile construction material called ferrocement and related material.

The Renewable Energy Resources Information Center (RERIC) for appropriate technologies in solar energy, wind, biofuels, and small-scale hydropower.

The Environmental Sanitation Information Center (ENSIC) for low cost options in the field of disposal and reuse of wastes.

Inquiries should be sent to Director, Regional Documentation Center.

Publications

The AIT Review is an illustrated quarterly published in English, containing a mixture of technical and nontechnical articles. Its circulation of 5,000 includes AIT alumni, students, faculty, donors, government agencies, and libraries. There is no charge for subscription. Inquiries should be sent to the Information Services Office.

Other Services

The Institute has available data processing services in the form of an IBM 3031/6 computer; and data banks on the topics of ferrocement, environmental sanitation, geotechnical engineering, and renewable energy resources. Its audiovisual equipment includes color videotape equipment, overhead projector, 35 mm slide projector, slide sound projector, Super 8 movie projector, 16 mm movie projector, reel-to-reel videotape recorder, and color videocassette recorder. Information on fees and permission to use equipment can be obtained from the Office of Academic Services, the Library Director, or the Director, Regional Computer Center.

Research

Research topics of the Institute are in the areas of agricultural and food engineering, computer applications, energy technology, environmental engineering, geotechnical and transportation engineering, human settlements development, industrial engineering and management, structural engineering and construction, and water resources engineering. The research is relevant to the Asian region.

Field sites include:

- o Regional Computer Center, with an IBM 3031/6 computer;
- o Regional Engineering Experimental Center, providing: 10,500 square meters of covered space for research; the Energy Park demonstrating various devices using solar and wind energy; a Soil Science laboratory; Environmental Engineering laboratory; laboratories for soil engineering, engineering geology, rock mechanics, airphoto interpretation, and traffic engineering; a large structures laboratory covering 512 square meters; and a large hydraulics laboratory.

Any charges for use of laboratories or field sites will be made available upon receipt of proposed project. These facilities in general are reserved for use by students, faculty, and research staff of the Institute, but may be made available to others on a case by case basis, according to the proposed project. Inquiries should be directed to the Public Relations Office.

Training Services

Master's Degree or Diploma Program

To be eligible for admission to the Master's degree program or the diploma program, a candidate must:

- o hold a degree at the Bachelor level or its equivalent in an appropriate field of study, from an institution of recognized standing;
- o have undergraduate grades well above average.

To be eligible for admission to the Doctoral program, a student must:

- o hold a Master's degree or its equivalent;
- o have both undergraduate and graduate grades well above average.

To be eligible for admission to any program at the Institute, a candidate must:

- o have ability in the use of the English language;
- o be physically and mentally fit; and
- o have a record of good conduct.

Entry Dates

For entry in:
September
January
May

Normal closing date for applications:
January 15 of the year of entry
May 15 of the preceeding year
September 15 of the preceeding year

A term is of four months' duration; each course is usually taught over a period of 13 weeks, followed by examinations and a short holiday break. There are no long vacations.

Tuition and Fees

Full-time attendance: Students who are in full-time attendance are normally required to pay tuition and fees of U.S. \$2,333 per term. Students who are in full-time attendance but for a limited period are required to pay combined tuition, laboratory, medical, and general fees of U.S. \$160 per week.

Part-time attendance: Students attending on a less than full-time basis pay for coursework a combined tuition and laboratory fee of U.S. \$150 per credit point per term.

Special students: Students attending for study other than regular degree, diploma, or certificate programs, e.g., short courses, will pay a combined tuition and laboratory fee. The amount will be determined by the Institute, taking into account the resource requirements to mount the program.

Fee Review: Fees are regularly reviewed. Approved changes will become effective on the stipulated date.

The main costs of attendance at AIT are as follows:

	per term	per 5 terms (Masters program)
Tuition & Fees	U.S. \$2,333	U.S. \$11,665
Dormitory room	U.S. \$ 160	U.S. \$ 800

To this cost, payable to the Institute, should be added whatever money is required for textbooks, meals, living expenses. An estimated cost for essential items would cover (per term):

Meals: U.S. \$540 Books: U.S. \$115 Miscellaneous: U.S. \$300

Financial Aid

External scholarship. Candidates for admission may apply directly for scholarship support to donor organizations such as UNDP, WHO, AID, Carl Duisberg Gesellschaft, and other organizations. Normally an applicant for admission with an external scholarship must himself contact the prospective donor and make his own arrangements for the scholarship. In some cases, it is necessary for the candidate to be nominated by his government. Candidates who can obtain external support, but not sufficient to cover their full expenses, may apply for a partial scholarship from AIT.

AIT scholarships. The Institute has some funds available to assist well-qualified students. These funds are donated to the Institute for its scholarship program by governments, foundations, industry, and other organizations. Candidates should note that the selection of students for scholarship awards is made solely on academic criteria together with practical experience, where appropriate. Candidates who can meet some of their costs from their own funds or from external support should apply for a partial scholarship only. Once accepted, the terms of the scholarships are final and are not negotiable any further.

Tuition and fees grant. The tuition and fees grant covers the tuition costs, laboratory, medical, and general fees charged by the Institute, U.S. \$2,000 per term. This is paid directly to the Institute by the scholarship donor. Fees are subject to regular review and will be effective on the stipulated date.

Bursary. The bursary provides a cash grant of up to a maximum of 2,850 Baht per month, plus a deduction by the Institute to cover single room accommodation costs.

Book grant. For the purchase of approved textbooks and photocopying costs. For Doctoral students and Master's degree students on the thesis option, U.S. \$335. Master's degree students on the coursework option, U.S. \$385.

Travel grant. The travel grant is provided in the form of an air ticket (not cash). It may provide for either the round-trip from the international airport nearest to the student's home to Bangkok and return or the return journey only.

Duration of award. Awards are made for a stated number of terms of study-- normally five for the Master's degree program and six for the Doctoral program. (If for any reason the course of study is extended beyond the period of time specified in the award, the recipient is responsible for meeting all costs associated with the extension. Under certain circumstances, an exemption may be granted for the tuition fee.)

CAUTION. A scholarship student who, of his own accord and without AIT's approval, leaves the Institute before completing his program of study will not be eligible for a return travel grant and may be required to repay all or part of his scholarship award.

Applications for scholarships must be made on the appropriate AIT form, available from the Registry.

Consulting Services

Sponsored research is an important activity at AIT because it:

- o enables the Institute to contribute to the solution of urgent problems impeding the development of the region;
- o brings the faculty into working contact with development agencies, government departments, and practitioners in engineering and planning;
- o provides topics for student thesis research;
- o provides an additional source of income to the Institute.

The amount of sponsored and grant research increased significantly during 1982. During the year contracts completed and in progress amounted to more than U.S. \$2.9 million.

In addition to external sponsorship of research, AIT makes available a small sum each year to support promising research projects proposed by younger members of the faculty.

Special Services

The Institute's Continuing Education Center has planned and/or organized conferences, symposia, seminars, workshops, and short special training courses.

Requirements and Criteria

Student scholarships are reserved for students from the Asian region. Conference facilities, the Library, and the Regional Documentation Center services usually may be used by the public.

Use of the Institute's computer equipment and various laboratories is, in general, restricted for use by the Institute, but may be available for various projects by organizations, groups, or individuals who have made a request and given details of the projects in advance.

ASIAN NETWORK FOR INDUSTRIAL TECHNOLOGY INFORMATION AND EXTENSION
(TECHNONET Asia)

Principal Officer
Dr. Leon V. Chico, Executive Director

Telephone Number
734 3331/2

Contact Officer
Mr. Ragan Prisanavanich,
Senior Program Officer

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Cable Code
TECHNONET

Mailing Address
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Republic of Singapore 9124

Relationships with Governments and Other Development Organizations

TECHNONET Asia is a regional network comprising 14 Participating Organizations in 11 Asian-Pacific countries. It has working arrangements with some 60 associated organizations in the development and technological fields. Its main sources of funds come from donor agencies (Canadian International Development Agency, International Development Research Center of Canada, Japan International Cooperation Agency, UN agencies, etc.) and governments.

Member Organizations:

- o Bangladesh Small and Cottage Industries Corporation (BSCIC)
- o Fiji National Training Council (FNTC)
- o The Hong Kong Productivity Center (HKPC)
- o Proyek Bimbingan dan Pengembangan Industri Kecil, Departemen Perindustrian (BIPIK/DP)
- o Korea Institute for Industrial Economics and Technology (KIET)
- o Small and Medium Industry Promotion Corporation, Korea (SMC)
- o Standards and Industrial Research Institute of Malaysia (SIRIM)
- o Majlis Amanah Rakyat (MARA)
- o Industrial Services Center (ISC)
- o Institute for Small-Scale Industries, University of the Philippines (UP ISSI)
- o Economic Development Foundation (EDF)
- o Singapore Institute of Standards and Industrial Research (SISIR)
- o Department of Industrial Promotion, Ministry of Industry (DIP)
- o Industrial Development Board (IDB)

Objectives

TECHNONET Asia is a nonprofit organization which aims at improving the quality and efficiency of production in small- and medium-scale industrial enterprises. Particular emphasis is given to the application of knowledge concerning known processes, methods, techniques, equipment, modifications, and approaches to existing operations, effected by the transfer of technical information, provision of industrial extension services, sharing of technology, and the development of indigenous entrepreneurs and enterprises.

History

TECHNONET ASIA was established in 1972 as a project of the Information Sciences Division of the International Development Research Center (IDRC) of Canada. The project began with total funding support from the IDRC, and since 1976 there has been a conscious move towards self-reliance. This move began with TECHNONET's training program, developing from the Small Industry Extension Training (SIET) Institute (Hyderabad, India) model using network resources, to the current situation whereby several individual participating organizations now are able to conduct their own training courses in industrial extension in local languages. In April 1980, it established itself as an independent legal entity within the Asian and Pacific region. A coordinating center (TECHNONET Center) continues to be maintained in Singapore.

Personnel

The Secretariat (TECHNONET Center) consists of ten professional and administrative staff skilled in project development and management. Approximately 2,000 professionals from the 14 participating organizations, are made available on specific project assignments. Skills are in the fields of industrial extension/consultancy, technical information, technology transfer and adaptation, enterprise and entrepreneurship development.

Physical Facilities

Library, classrooms, conference rooms, and audiovisual facilities are available in participating organizations; five organizations (in Hong Kong, Singapore, Korea, Malaysia, and the Philippines) have computer facilities; most organizations have field units.

Library

The volumes in the Library cover the general subject areas of industry, science and technology, and management; a special service is the Current Awareness and Technical Enquiry Service. Use is free to members, others are charged depending on actual cost of service. Inquiries can be made to TECHNONET Center.

Publications

TECHNONET Asia Newsletter and Digest, an illustrated quarterly, is published in English. Its 2,500 circulation is among participating and associated organizations and development and international agencies. Subscription is free by writing to TECHNONET Center. Types of articles include network news, industrial extension cases, technological digest.

Research

TECHNONET performs indepth surveys on special industrial sectors such as metalworking and wood furniture. There are testing laboratories in several participating organizations for products and materials; and low-cost automation laboratories in Hong Kong and in the Philippines. Inquiries regarding these services and charges for them should be made to TECHNONET Center.

Training

Training (four to eight weeks) for:

- o trainers,
- o industrial extension officers,
- o technical information officers,
- o management consultants.

Seminars/Workshops (two to three weeks) on:

- o various industrial sectors,
- o entrepreneurship and enterprise development,
- o project planning and management,
- o appropriate technology.

All of the above are conducted in English. Accommodations can be arranged. Participants from other countries may be accepted. Tuition and other fees on request. Address inquiries to TECHNUNET Center.

Grants and fellowships are available only to participating organizations.

Consulting Services

TECHNUNET offers a wide range of expertise for short- and long-term consultancy.

Conferences

TECHNUNET also plans and arranges conferences, including facilities and accommodations, in any of the countries in which it operates. Inquiries may be addressed to TECHNUNET Center.

Additional Information

TECHNUNET would be very pleased to share its experiences and expertise with other developing countries, especially with those in similar stages of development.

ASIAN PRODUCTIVITY ORGANIZATION (APO)

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Mr. Hiroshi Yokota, Secretary-General

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Contact Officer
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APOFFICE Tokyo

Relationships with Governments and Other Development Organizations

The APO is an intergovernmental organization. It has a formal agreement with the International Labor Organization (ILO) on mutual cooperation, and has Consultative Status on the Industrial Development Board of the United Nations Industrial Development Organization (UNIDO) and the United Nations Economic and Social Council (ECOSOC). The ILO has provided numerous fellowships to the APO, and UNIDO continues to provide two fellowships to the APO each year. The APO has cooperated with the Asian Development Bank, Manila, since 1972, in organizing an annual training course on Project Feasibility Study and, since 1980, in organizing a biennial training course on Project Management. The Training Course on Project Feasibility Study has been redesigned in 1983 and it is now held under the title APO-ADB Training Course on Project Feasibility, Appraisal and Implementation reflecting the current emphasis of the training course.

The Government of the Netherlands has been assisting the APO since 1964, and the Research Institute for Management Science (RvB) at Delft, the Netherlands, has been conducting courses for APO participants every other year since 1970 and has continued to do so every year from 1981. Close contact is maintained with ESCAP, FAO, the Development Center of the Organization for Economic Cooperation (OECD), UNEP, the World Bank, etc. Additionally, the Asia Foundation has supported APO projects through deputation of experts.

The APO has 16 member countries: Bangladesh, Republic of China, Hong Kong, India, Indonesia, Iran, Japan, Republic of Korea, Malaysia, Nepal, Pakistan, the Philippines, Singapore, Sri Lanka, Thailand, and Vietnam. Each member country is represented by a Director on the APO Governing Body which meets once a year. Each member country also designates a National Productivity Organization (NPO) to serve as the implementing agency of APO country projects and appoints an APO Liaison Officer to handle day-to-day routine. NPOs nominate candidates to take part in APO's multi-country projects, make requests for APO assistance (usually in the form of technical expert services), organize APO programs that take place in member countries, and evaluate APO projects.

Objectives

The objective of the APO is to increase productivity in the countries of the ESCAP region by mutual cooperation, in order to improve the living standards

and conditions of their citizens. The sub-objectives are to promote and improve productivity by identifying needs of the member countries in changing situations, help institution-building of NPOs in member countries, act as a clearinghouse for disseminating productivity knowledge and skills, encourage mutual cooperation among member countries, and conduct research on productivity issues. Principal fields of activity include research and studies, training courses, technical expert services, individual and multi-country study missions, publications, and audiovisuals.

History

Established in 1961 by several governments in Asia, the APO observed the year 1970 as the Asian Productivity Year and organized the Asian Productivity Congress during that year, when heads of state of its member countries served as honorary patrons. Programs of activities in management and technical training both in industry and agriculture intensified during the 1970s, and to meet the changing needs of member countries, the APO has also become involved in such crucial issues as energy and environment. A publications program was launched whereby professionally edited and produced books on productivity, management, production, agriculture, etc., started to be distributed through commercial channels throughout the world.

A second Asian Productivity Congress was organized in 1980 with New Dimensions of Productivity and Development Strategies for the 1980s as the main theme. The findings of research on "Factors which Hinder or Help Productivity Improvement in the Asian Region--A Review and the Prospect" served as one of the inputs to the Congress. A second research on "Management Systems and Practices at Firm Level and Their Influence on Productivity" is now being conducted as a followup. Productivity measurement and analysis is also a regular feature of APO's programs. In view of the changing economic scene both within and outside Asia and of the different degrees of economic development among APO member countries, the APO thought it timely to define anew its role as a leader in productivity by taking upon itself the task of a think-tank, catalyst, regional advisor, institutional builder, and clearinghouse of information on productivity.

Personnel

All 14 professional staff hold degrees in such disciplines as agricultural economics, business administration, development studies, economics, and chemical, mechanical, and mineral engineering, with four holding Master's and one holding a Doctoral degree.

Physical Facilities

There is a conference room where a few study meetings, symposia, and training courses are held. A Radio Shack Micro-computer System TRS-80 Model 1 and various audiovisual equipment and aids are used in training courses.

Library

There are 7,000 volumes in the Library on productivity, economics, agricultural development, technology, engineering, marketing, trade, etc. There is no charge for use. Inquiries should be sent to the Library of the APO.

Information Exchange

There is an information exchange which disseminates productivity knowledge in the English language. It is linked with the Technical Inquiry Service of UNIDO.

Publications

A newsletter, AP0 NEWS, is published monthly in English. It gives news about AP0 and member country activities and is distributed to NPOs, former participants in AP0 projects, and to governments, institutions, international organizations, etc. The circulation is 3,500 and there is no charge for subscription. Inquiries should be sent to the AP0 Secretariat.

The AP0 also publishes professionally developed and edited books on management and technological subjects in the English language. Copies are available through book distributors all over the world. Inquiries may be addressed to the AP0 Secretariat.

Research

Research is conducted in fields in which member country needs have been identified. AP0 conducts research either through its own professional staff or by recruiting qualified experts from within and outside the member countries. Productivity measurement and analysis, energy, labour/management relations, and agriculture are some of the subjects covered.

Training

There are an average of 15 multi-country training courses per year organized by the AP0 and implemented in its member countries. All courses are in English, and qualification requirements of participants depend on the subjects. Usually, a university degree and several years' practical experience are required. Courses are open to nationals of AP0 member countries, and candidates must be nominated through NPOs. No tuition fees are charged, and per diem allowances during courses are paid to all participants. International airfare is also paid to participants who come from nonprofit-making organizations. Total number of people trained to date is about 3,300.

Consulting Services

Member countries may apply for short-term experts under AP0's Technical Expert Services project.

Other Services

Audiovisual aids in the form of slides/filmstrips, with narrative tape or cassette and printed script in English, are produced from time to time, on management, production management, cost reduction, quality control, work study maintenance, plant layout and material handling, group technology, packaging, human relations, computer and systems, industrial safety, energy, environment, foundry, and plastic technology. Prices and particulars may be obtained from the AP0 Secretariat.

Study Missions

Individual country study missions are organized by NPOs, to study specific subjects by visiting one or more member countries. The APO also organizes multi-country study missions for participants from various member countries to study subjects of common interest.

ASIAN VEGETABLE RESEARCH AND DEVELOPMENT CENTER (AVRDC)

Principal Officer
G.W. Selleck, Director

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Taiwan, Republic of China

Cable Code
ASVEG TAIWAN

Branch Offices

Bilateral project offices (outreach) are located in Korea, the Philippines, and Thailand.

Relationships with Governments and Other Development Organizations

AVRDC is international in scope. It is funded by the Republic of China (ROC), the Federal Republic of Germany, Japan, Korea, the Philippines, Thailand, and the United States. A Memorandum of Understanding establishing AVRDC was signed by representatives of the Asian Development Bank, the Republic of China, Japan, Korea, the Republic of the Philippines, Thailand, the United States of America, and the Republic of Vietnam.

Objectives

AVRDC's purpose is the improvement of vegetable crop productivity and consumption in the lowland tropics through research and training programs aimed at increasing the yield potential and nutritive content of five vegetable crops: tomato; Chinese cabbage; sweet potato; white potato; mungbean; and soybean.

Plant breeders, pathologists, entomologists, physiologists, soil scientists, crop management specialists, agricultural economists and chemists work together on commodity-oriented research teams to achieve these objectives. Surveys of vegetable farmers and markets are made to keep programs geared to the farmers' needs. Since 1981, the Center has also conducted preliminary trials with cauliflower, snap beans, mustard, peppers, and radishes.

History

In April 1963, AID first proposed the idea of a regional vegetable center to representatives of 12 Southeast Asian governments. The plan proposed by Mr. C. L. Luh, Senior Horticulturalist for the Taiwan/USA Joint Commission on Rural Reconstruction (JCRR) was sent to AID in July 1964. In January 1966, AID and JCRR representatives signed a contract to conduct a survey and form an International Provisional Planning Committee (IPPC). In May 1966, the IPPC selected Taiwan as the site for the proposed regional vegetable center.

A Memorandum of Understanding and the Charter establishing AVRDC was signed in May 1971 and ground was broken for the first AVRDC buildings in January 1972. The first field experiments were planted in September 1972. The essential physical plant was completed and official dedication ceremonies held in October 1973.

Personnel

AVRDC has a senior international staff of around 20 scientists from ten nations, backed up by over 100 local Chinese technical staff. They work in the fields of plant breeding, plant pathology, entomology, nutrition, crop management, soil science, economics, social anthropology, and a variety of other scientific disciplines.

Physical Facilities and Library

The Center has perhaps the most comprehensive library on vegetable crops in the tropics, containing 7,721 volumes as well as thousands of periodicals and monographs on its focus vegetables. Slide sets are available. It also possesses several conference rooms and a large auditorium, for use by both staff and trainees, as well as visitors. There are a number of classrooms, well-equipped laboratories, a printshop, and photographic unit. AVRDC makes use of IBM computer equipment supplied by IBM Taiwan for statistical analysis of research results.

AVRDC has several well-equipped laboratories (for entomology, chemistry, soil science, for example). These are located in the Center itself and are not available for use by any but Center staff and training scholars.

Information Exchange

AVRDC's mandate is to help the tropical farmer through the national program of the country in which he lives. To that end, information about trials conducted at AVRDC and in other countries by its cooperators is made available freely on request to anyone to whom it could be useful.

The library has exchange agreements with many other agricultural and scientific libraries worldwide, and will enter into such exchanges with any interested information service. The Center's official language is English.

Publications

AVRDC publishes a color newsletter, Centerpoint, in English for an audience of 4,000 scientists, researchers, and universities. It contains an informal mixture of articles for the educated but nonspecialist reader. There is no charge for subscription.

Centerpoint also provides the reader with information about AVRDC's other publications which can be ordered separately. These include the annual "Progress Report" and occasional technical bulletins, guidesheets, and proceedings of AVRDC symposia. All publications are in English, and are available from the Head of the Office of Information Services.

Research

AVRDC welcomes inquiries into every branch of its research, from anyone. It is part of the Center's job to disseminate such information as widely as possible.

Training

AVRDC trains people in vegetable production and technology. To date, some 400 trainees have passed through the Center. They undergo a five-month course (two such are run each year) and are awarded a diploma at the end of it certifying their completion. Various tailor-made courses are given to fit the special requirements of individual trainees. Trainees come from all over the world, although most come from Southeast Asia. A reasonable standard of English is required, and, of course, involvement in the field of vegetable cultivation. The arrangement of funding varies widely and from case to case; generally the trainee's employer (often his government) will provide the money for his course.

Consulting Services

AVRDC is always interested in exchanges of personnel for specific projects, although the Center does not undertake formal paid consultancy at the present time. Naturally its scientists spend much of their time in consultive capacities with national scientists in the ROC and abroad.

Special Services

AVRDC organizes, generally, one symposium each year on one of its major five crops (mungbean, soybean, Chinese cabbage, sweet potato, tomato). Various workshops are also organized. These are announced well in advance. Attendance is usually by invitation, but arrangements vary. Not all are held at AVRDC itself.

Funding

AVRDC does not fund outside scientists for projects, as a general rule. It does encourage scientists and postgraduates, under appropriate circumstances, to undertake sabbaticals at the Center. The degree of support offered is decided on a case-by-case basis.

BOURGUIBA INSTITUTE OF MODERN LANGUAGES
Institut Bourguiba des Langues Vivantes

Principal Officer
Dr. Mohamed Maamouri

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Address
Bourguiba Institute
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Relationships with Governments and Other Development Organizations

The Institute is part of the University of Tunisia, placed under the National Ministry of Higher Education. It maintains cultural exchanges with different countries and the Center for Applied Linguistics (CAL), Washington, DC.

Objectives

- o A four-year program with certificate of study in different languages: English, French, Arabic, Spanish, Italian, German, etc., including evening classes for adults.
- o A four-year university program leading to an M.A. in one of the languages or in translation for Tunisian students.

The Institute also has printed brochures for specialized classes.

History

The Institute was founded with the assistance of the Ford Foundation.

Personnel

Foreign language teachers and linguists make up the professional staff.

Physical Facilities

The Institute has language labs, a theater for films, taping facilities, classrooms with audiovisual equipment, conference rooms, and a Library. There is an international airport at Tunis.

Library

The 12,000-volume Library, used by students and researchers, focuses on languages, linguistics, and Arabic.

Publications

The Institute publishes a Language and Linguistics Series, presenting technical articles on linguistics and Arabic terminology in English and French for linguists.

CARIBBEAN INDUSTRIAL RESEARCH INSTITUTE (CARIRI)

Principal Officer
Hollis Charles, Director

Telephone Number
662-7161/5

Contact Officer
Sharon Laurent, Coordinator
External Relations Unit

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Cable Code
CARIRI TRINIDAD

Objectives

CARIRI was established to provide local capability in industrial research and development as well as scientific and technical services (STS). Its main STS divisions are Technical Information Service (TIS), Food and Chemistry (F&C), and Materials Technology (MT). These divisions offer information and testing services to the food and construction sectors of the Caribbean community.

History

CARIRI was established in 1970 by the Government of Trinidad and Tobago, becoming a legal entity by an Act of Parliament of April 1972. During its formative years the Institute is being assisted by the UNDP, with UNIDO as the executing agency.

Personnel

The professional staff of 62 includes: chemical engineers; a biochemist; design engineers; economists; food technologists; mechanical engineers; microbiologists; physicists; technical information specialists.

Library and Data Base

The Library contains 3,000 volumes in science and technology. Library services are available to industrial enterprises, government agencies, and private individuals. There is a charge for photocopying. Charge to the public is cost plus 25 percent. Inquiries should be directed to TIS/CARIRI.

Publications

A Construction Cost Bulletin is published in English three times a year and sent to 1,000 consultants and contractors. Direct subscription inquiries to TIS/CARIRI.

Research

CARIRI performs research in material technology, food and chemistry, electronics, and engineering.

CENTRAL AMERICAN CENTER FOR THE STUDY OF APPROPRIATE TECHNOLOGY (CEMAT)
Centro Mesoamericano de Estudios Sobre Tecnologia Appropriada

Principal Officer
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Guatemala, Guatemala

Relationships with Governments and Other Development Organizations

CEMAT is a private, nonprofit research center. Its base support is provided by CCFC, France; NOVIB, Netherlands; Pan Para el Mundo, Republic of Germany; and VASTENAKTIE, Netherlands. Project support is provided by the International Development Research Center (IDRC), Canada; AT International (ATI), United States; Groupe de Recherches sur les Technologies Appropriées (GRET), France; TOOL, Netherlands; and CEESTM, Mexico.

CEMAT participates in the following networks: TRANITET, SATIS, COCOP, ALOP, and OLADE.

Objectives

The objectives of CEMAT are:

- o to promote and systematize the transference of appropriate technical knowledge from countries with more technological experience to the Central American region;
- o to promote and systematize local scientific investigations and appropriate techniques throughout the region;
- o to develop and implement appropriate technology projects and training systems;
- o to promote communication and the exchange of experiences related to appropriate technology, at the national, regional, and international levels.

History

CEMAT was founded through the initiative of a group of scientists as an answer to the need felt during the reconstruction process following the 1976 earthquake that devastated much of Guatemala. The purpose was to create an organization which would promote in Guatemala and Central America the appropriate technologies necessary for the socioeconomic development of rural and suburban areas.

Personnel

CEMAT's personnel are distributed in three units: the administrative unit employs one administrator and three accountants; the technical unit employs

five professionals and five technicians in the areas of energy, sanitation, agriculture, alternative medicines, nutrition, and alternative reconstruction techniques; the operative unit employs 15 promoters.

Library

The CEMAT Information Center has 6,000 volumes on the subject of appropriate technology. The Center provides technical documents to institutions, groups, or individuals working in the area of appropriate technology. There is a photocopy charge of \$0.10 per page. Inquiries may be sent to CEMAT Information Center at the mailing address above.

Information Exchange

The CEMAT Information Center offers a documents exchange service, mainly in the field of energy, for institutions, groups, or individuals working in the area of appropriate technology. There is no charge for exchanges of information. The CEMAT data bank has documents in English, French, Spanish, Portuguese, and Chinese specializing in appropriate technology, especially alternative energy sources, medicine, nutrition, sanitation, and construction.

Publication

CEMAT distributes a quarterly publication in English, Spanish, and French, entitled RED. It is an illustrated publication containing a mixture of technical and nontechnical articles distributed to approximately 1,500 individuals and institutions involved in appropriate technology activities. The publication is free of charge. Send inquiries to the Editor, RED, at the mailing address above.

CEMAT also has a publications center which disseminates documents in English and Spanish on specific areas of agriculture, irrigation, construction, energy, and health.

Research

CEMAT conducts feasibility studies and evaluations in the areas of bioenergy (biogas), wood conservation (improved cookstoves, energy-producing woods, fast-growing tree and shrub species), sanitation and biofertilizers (dry family composting latrines, biogas effluents), and the utilization of local resources (formation of rural micro-enterprises). Any institution or group working in appropriate technology may use CEMAT's research facilities. The cost will depend on the specific needs of the project.

Training

CEMAT has training services in these subjects: biogas, composting latrines, Lorena cookstoves, and medicinal plants. The Biogas course lasts six weeks; it is taught at the professional and technical level. The course is taught in English and Spanish, but a knowledge of Spanish is recommended. The fee is \$25,000 for training five persons in Guatemala. The fee for out of country training is \$10,000 per student plus the cost of transportation and per diem of the trainers. Fees include all books and reproduction.

The Lorena cookstove course is a one-month technical course taught in Spanish. The fee is \$1,500; when the course is taught in another country, the fee is \$1,500 plus transportation costs and living expenses. There is a maximum of 15 to 20 students.

The one-month technical course on dry family composting latrines costs \$1,500, and is taught in Spanish. Maximum number of students is 15 to 20. The training course on medicinal herbs is given at the professional and the technical levels; the one-month course is taught in English and Spanish. The fee is \$1,500 in Guatemala; outside the country, the costs of transportation and living expenses must be paid in addition to the fee. The maximum number of participants is 20.

The rural micro-enterprises course is taught at the technical level and lasts one month. The language of instruction is Spanish, and the fee is \$5,000 for in-country training. Training outside Guatemala requires payment of transportation costs and living expenses in addition to the fee.

Consulting Services

CEMAT provides consulting services for governmental institutions and AT groups or institutions in biogas technology, Lorena cookstoves, dry compost latrines, and medicinal plants. The fee for government institutions for assistance in biogas technology is \$3,500 a month plus transportation and per diems; and \$1,500 a month plus transportation and per diem for assistance in other fields. Fees for AT groups and institutions are established by agreement between the group and CEMAT.

Other Services

CEMAT has organized several seminars. The topics developed have been on appropriate technology, particularly alternative energy sources. The fees for seminars and conferences depend of the number of participants, duration, level of expertise, and other factors.

CENTRAL AMERICAN INSTITUTE OF BUSINESS ADMINISTRATION (INCAE)
Instituto Centroamericano de Administracion de Empresas

Address

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Managua, Nicaragua

Relationships with Governments and Other Development Organizations

INCAE is a member of the Latin American Council of Schools of Administration (CLADES) and has many informal ties with the Harvard University Business School in the United States.

Objectives

INCAE's purpose is to contribute to the socioeconomic development of the Central American region through the more effective and enlightened management of its resources. Its major field of activity is management education for both public and private sectors through a two-year Master's Program. Also, INCAE continues to offer an Advanced Management Program and some 120 short management seminars per year throughout the region. Increasingly, INCAE is becoming involved in special seminar programs for public sector organizations.

History

INCAE was founded in 1964 with the financial assistance of AID and the Central American business community, with technical assistance from Harvard University Business School. It launched six-week Advanced Management Programs for top executives; initiated a two-year Master's Program in Business Administration in 1968; and developed special programs in Agro-industry, Developing Banking and Finance, and Public Management in the early 1970s. In 1982, INCAE opened a new campus in Costa Rica and initiated a series of new programs: Exports Management, Energy Management, Small Industry Management, and Cooperatives.

Personnel

There are approximately 40 faculty from six or seven countries. All faculty members either have or are working toward Ph.D. or U.B.A. degrees. Researchers are at the Master's level.

Library

INCAE maintains a Library of 25,000 volumes and operates a case clearing-house. Write to INCAE for information.

Publications

INCAE publishes (in Spanish) a quarterly newsletter distributed free to 3,000 businessmen, public officials, and INCAE graduates, and also an academic journal dealing with administration and development. Inquiries should be sent to INCAE.

Research

There is a core of 15 researchers and consultants, plus time of some 20 faculty members. A research division has been organized to channel and promote institutional research projects. INCAE has the capability to conduct economic or administrative research in a wide range of environments, including health systems, rural development, agricultural marketing, etc.

Training

- o Two-year Master's Program. In Spanish, with simultaneous translation for English-speaking professors. Tuition is U.S. \$2,900 per year plus U.S. \$800 for case materials, U.S. \$950 for housing, and U.S. \$1,200 for meals. Degree awarded is M.A.E., comparable to M.B.A. (Master of Business Administration) in U.S. graduate schools. There are currently 169 students; the total number graduated so far is 766.
- o Advanced Management Program. In Spanish; four weeks' duration; total cost is U.S. \$3,300. A certificate is awarded. Offered once a year, in Managua and usually one other location (Ecuador, Dominican Republic). Usually 100-150 participants per year; the number of graduates so far is about 1,800.
- o Seminars. Approximately 400 short seminars have so far been held, with about 15,000 participants.

Some of the short seminars are for rural development managers in such topical areas as "Designing Strategies for Rural Development," "Implementation," "Coordination," "Human Resource Development," and "Managing Decentralization."

Requirements and Criteria

Students are accepted from all countries, though INCAE strives for the following distribution: 80 percent from Central America, distributed approximately equally among the six countries; 20 percent from other areas.

CENTRAL AMERICAN INSTITUTE FOR PUBLIC ADMINISTRATION (ICAP)
Instituto Centroamericano De Administracion Publica

Principal Officer

Carlos Cordero d'Aubuisson

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22-31-33

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Cable Code

ICAP

Mailing Address

ICAP

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Relationships with Governments and Other Development Organizations

ICAP has links with the national governments in Central America and Panama. The Institute was established as one of the specialized agencies for integration by the Central American governments, which contribute to its support annually. The Institute's work is directed toward selected sectors of public administration to which the governments of Central America grant priority on the basis of national development programs and the overall plan for the integration of Central America. The six Central American countries are Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama.

Objectives

The objectives of the Institute include:

- o training manpower on different levels in the field of public administration through formal education (Master's degree program), seminars, and educational and technical courses, both regional and national;
- o offering technical cooperation to the member countries and regional agencies of integration;
- o researching administrative problems in the region and searching for suitable solutions to these problems;
- o publishing new materials and regional experiences through research and technical cooperation;
- o dissemination of its work by means of library/documentation services and publications.

History

ICAP evolved in 1967 from the Central American Advanced School of Public Administration, which had been established in 1954. It is a nonprofit institution, founded by the governments of the Central American countries as one of the specialized agencies for integration. It is an autonomous legal entity,

and its activities are directed toward increasing the capacity of management of the public sector and to selected sectors of public administration to which the governments grant priority based on national development programs, and in the general framework of the integration of Central America.

Personnel

ICAP has a Director, seven technical consultants, four research consultants, three management and information systems consultants, two publications consultants, two advisors of UNDP, and an administrative staff of 35. For the Master's degree program there are five full-time professors and three part-time professors.

Physical Facilities

ICAP has a Library that specializes in public administration for the region, with special rooms for professors and students. There are four classrooms, one of them for 70 students and the others for 30 to 40 students. The Institute has two conference rooms, one equipped for simultaneous translation with a blackboard and air conditioning; the other conference room is smaller. There are two rooms for students equipped with typewriters, as well as a photocopying room and a computer terminal.

Library

The library contains 18,700 books, 8,200 serials, and 495 titles of periodicals on public administration and the social sciences in one of the best collections of documents on Central America. There is no charge for use of the Library, which can be used by anyone. Inquiries should be addressed to the above address.

Information Exchange

Plans are underway to extend the information exchange program in the region in 1983 and 1984

Publications

The Revista Centroamericano de Administracion Publica is published twice a year in Spanish. It contains academic research and technical theory. A charge of \$15 is paid by 500 individuals and institutions.

ICAP also published many books and monographs. Inquiries concerning ICAP publications should be addressed to the address above.

Other Services

ICAP has a data bank and data processing facilities on public administration, connected to the computer center of the Technological Institute of Costa Rica (ITCR) in Cartago. Four basic data bases being developed or to be developed include: (1) basic governmental documents, (2) academic journal articles, (3) the library catalogue, and (4) Central American experts and innovations in public administration. An index of abstracts available to the general public will be published twice a year. Inquiries should be addressed to the Centro de Documentacion of ICAP.

Research

The following research projects have been undertaken.

- o Historical evolution of the public sector in Central America. It was conducted in the six countries and the published research is available for Costa Rica, Honduras, and Panama. In 1983, the research for Nicaragua, and Central America as a region will be published.
- o Census of Human Resources of the public sector, conducted for the six countries. The results have been published for El Salvador, Guatemala, Honduras, and Panama.
- o Interorganizational government relations (ERI). This research was conducted in Honduras and Panama, and the results were published in 1982.
- o Public policies on urban poverty, with emphasis on housing. The research is now underway and the preliminary results for Costa Rica, Guatemala, Nicaragua, Honduras, and Central America as a region will be published in 1983.

ICAP also undertakes reference work and preparation of bibliographies. This service and the published results mentioned above are available to students, professors, universities, researchers, governments, and the public sector. Inquiries should be directed to the Program of Research, ICAP.

Training

ICAP offers two different levels of training. The Master's degree program is two years long and is available to students of Central America and Panama with a command of the English language. Scholarships are available. Direct inquiries to the Programa Regional de Maestria en Administracion Publica, at the above mailing address.

The Institute also offers other types of training with courses lasting from one to six months. The language used is Spanish. Participants usually receive per diem and travel expenses, paid by an international organization, an agency, or the member countries of ICAP. A certificate of participation is generally awarded.

Conferences

ICAP is involved in the following conferences: Hemisphere Conference on Public Management in a World of Accelerated Change, early 1982, in San Jose, at the Cariari Hotel; North-South Dialogue on Public Administration, early 1982, in San Jose at the Cariari Hotel; Human Settlements and financing of municipal governments, at ICAP; Technological Transfer, held at ICAP.

All of the above conferences will be for the private sector.

Requirements and Criteria

The services that ICAP offers are for the public sector, specifically of the Central American countries and Panama.

CENTRAL SOCIETY FOR EQUIPMENT INSTALLATION OF THE TUNISIAN TERRITORY
Societe Centrale Pour L'Equipment du Territaire (SCET/Tunisia)

Principal Officer

Mr. Slah-Eddine Ben Said

Telephone Number

894-100

Address

SCET/Tunisia
2, Rue Sahab Ibn Abbad--Cite Jardins
Tunis, Tunisia

Telex Code

12552

Relationships with Governments and Other Development Organizations

The Society is recognized by the governments of Algeria, Mauritania, Senegal, and Tunisia, and by the following international organizations: ONUDI, UNDP, ABF, BADEA, EEC, and UNESCO.

Objectives

The objective of the Society is the implementation of technical studies, mostly in the following fields:

- o urban and touristic installations;
- o construction and structures;
- o infrastructures and transportation (roads, bridges, airports, railways, electricity conductors);
- o land and water: urban and agricultural hydraulics; hydraulics for rivers, forests, crops;
- o studies in economics: financial and social.

History

The Society was founded in October 1972. Its capital is held by a group of Tunisian and French banks. In 1973, its capital was raised from 130,000 to 185,000 Tunisian Dinars.

Personnel

The Society's personnel consists of: 52 engineers and urbanists, 24 supervisors, 54 industrial artists and technicians, and 31 administrative staff members.

Physical Facilities

Available facilities include a minicomputer for management, a computer and tracing table for technical applications, topographic equipment, and a Library.

Library

The Library contains 1,500 volumes on 250 industrial subjects.

EASTERN AND SOUTHERN AFRICAN MANAGEMENT INSTITUTE (ESAMI)

Principal Officer
Prof. J.J. Okumu, Ph.D., Director

Telephone Number
288115

Registrar
Mr. John M. Nukami, L.L.B., L.L.M., M.B.A.

Telex Code
42076 EACOMI

Contact Officer
Augustes Musana, A.L.A., M.S.L.S.
Institute Librarian

Cable Code
PERFORMANCE

Address

Eastern and Southern African
Management Institute
P.O. Box 3030
Arusha, Tanzania

Relationships with Governments and Other Development Organizations

Angola, Botswana, Comores, Djibouti, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Seychelles, Somalia, Swaziland, Tanzania, Uganda, Zambia, and Zimbabwe are the member governments.

Objectives

The Institute was formed by its member governments in February 1981, with the objective of improving performance in public and private enterprises in Eastern and Southern Africa through training, consultancy, and research.

Personnel

Personnel include 30 high-level experts in management, public administration, transport and communication management, medical services management, financial management, project planning and implementation, women in development, and management sciences.

Physical Facilities

Facilities include five classrooms and a conference room; 2200 MVP WANG computer, 128k expandable; well-stocked A.V.A. Section, CCTV and appropriate audiovisual material. Inquiries on conference facilities should be addressed to the Director of the Institute.

Library

The Library, of 6,000 titles in management and related fields, is intended for use by consultants at the Institute and participants in various programs, including a postgraduate diploma at Institute. There is no charge for use.

Information Exchange

The exchange is not yet formalized, but is capable at present of providing bibliographies in English on management for use in African context.

Publications

Training programs for managers and trainers are published annually in English. Free programs may be obtained from the Chairman, Training Committee.

Research

At present, research is limited mainly to management and public administration policy.

Training

Training services include:

- o performance improvement courses for senior and top managers; and
- o postgraduate diploma in management; diploma in management.

It is designed for participants from the 18 countries in the Eastern and Southern African region. English is the language of instruction.

Consulting Services

Consulting services are provided.

Other Services

The Institute welcomes joint ventures with other similar institutions and technical assistance agencies in such areas as training, research, and consultancy in any area of management.

Funding

The Institute to date does not offer grants or tuition funds.

EL AMOURI INSTITUTE OF APPLIED PSYCHOLOGY

Principal Officer
Dr. Tahar El Amouri

Telephone Numbers
289.185; 891.304

Address
Institute El Amouri
5 Rue du Hijaz
Tunis 1002, Tunisia

Telex Code
13.500 TN

Relationships with Government and Other Development Organizations

Since the foundation of the Institute, it has contributed its work or worked as a team with a large number of international organizations having an interest in the development problems of the Arabic countries and Africa.

Objectives

The Institute provides consultants for private and government organizations in the principal fields of:

- o formal and nonformal education;
- o human communications;
- o human resources--tutor training;
- o psychosocial studies and research;
- o rural development, including nutrition and health education.

History

The Institute was founded in July 1974 by Dr. Tahar El Amouri. Dr. El Amouri taught in universities for several years and did research in the fields of education and social psychology. He founded the Institute in order to meet the needs of Tunisia and in general of African and Arabic countries.

Personnel

The Institute has a dozen consultants who are highly qualified in the fields of applied psychology, education, human resources, communications, sociology, and ergonomics.

Library

The Library contains 900 classified books, plus specialized magazines in education, psychology, communication, and psychology of work.

In addition, the Institute's audiovisual facilities include tape, slides, and a portable TV circuit. Several audiovisual programs have been produced (tape and slides), and there is a very good collection of slides.

Research

The Institute conducts research planning, gathering of data in the field, data processing and analysis, and publication of research findings in the fields of development (human aspects), communication and information services, education (general, nutritional, health), psychology of work, and organization management.

Training

Since the Institute was founded, it has planned and organized more than 200 training sessions and seminars, especially in Tunisia but also in Africa and Arabic countries. Each year regular seminars for the training of middle-management employees--communications, motivation, selection of human resources --are organized. The Institute does not have a permanent training service but is ready to meet specific needs, working under contract.

Consulting Services

Institute consultants are especially skilled in the fields of formal and nonformal education, communication, tutor training, and information campaigns through mass media.

HAITIAN CENTER FOR RESEARCH IN THE SOCIAL SCIENCES (CHISS)
Centre Haitien d'Investigation en Sciences Sociales

Principal Officer
Hubert de Ronceray, Director General

Telephone Number
2 38 29

Address
CHISS
23, Rue Bonne Foi
Port-au-Prince, Haiti

Mailing Address
CHISS
Boite Postale 2497
Port-au-Prince, Haiti

Relationships with Governments and Other Development Organizations

The Center cooperates with the United Nations Development Program (UNPD) and UNESCO.

Objectives

CHISS's objectives are to:

- o promote and coordinate research about sociological, cultural, psychological, and economic problems in Haiti;
- o establish a network of communication and exchange between Haitian investigators and research institutions in the world;
- o realize and develop field work in Haiti; and
- o establish a service of documentation in social and human sciences.

Principal fields of activity include documentation and information on population, rural sociology and evaluation, and urban sociology; and technical and financial assistance.

History

The Center was founded in June 1966 and recognized as a public utility in December 1969. Between 1970 and 1975, it developed its research activities in the field of urbanization, family planning, and bilingual education (Creole-French). From 1975 to the present, most of its activities have consisted of an international summer course. Studies are now being done to add indepth research themes to this course.

Personnel

CHISS is composed of three important staffs: technical, administrative, and public relations. The technical staff includes a Projects Coordinator (M.A.), technical consultants (Ph.D.), and research assistants.

Physical Facilities

Facilities include a Library, lecture room, audiovisual room, housing facilities, and vehicles.

Library

The 1,500 volume Social Sciences Library is available for use by students and professional personnel, free.

Information Exchange

All work done by CHISS is sent to the exchange service of the following institutions: Population Council, Yale University Library, Harvard University Library, Latin American and Caribbean Studies, Cuadernos del Tercer Mundo, Library of Congress, Stanford University Library, among others. In return, these institutions send CHISS their publications.

Publications

Synthesis of the CID'EH is published annually in French, containing technical articles and popular works on research results. It is read by 500 students and staff skilled in social sciences.

Research

CHISS has completed many studies in the areas of population and family planning, education, bilingual education, urbanization and urban sociology, and rural sociology. Its works, aimed at giving clarity and precision to development planning on the village level, are available to national centers of decision, international organizations, and industrial spheres interested in the economic promotion of Haiti.

CHISS also evaluates projects of internal development and proposes relevant rectifications.

Conferences

The International Summer Course is held in Haiti in July of each year, open to students and staff skilled in the field of social sciences. Inquiries should be sent to CHISS at the above address.

INDUSTRIAL DEVELOPMENT CENTER (CDI)
Centro de Desarrollo Industrial

Principal Officer

Lic. Dorcas Cantarero de Gonzalez
Executive Director

Telephone Numbers

324050, 327227, 322143

Address

Industrial Development Center
Edificio Atala, Ave. La Paz
P.O. Box 703
Tegucigalpa, Honduras
Central America

Cable Code

CENTEC

Branch Offices

Regional office in San Pedro Sula, Department of Cortes; Branches in Nacaome, Department of Valle; Danly, Department of El Paraiso, Juticalpa; Department of Olancho; and Nueva Ocotepeque, Department of Ocotepeque.

Relationships with Governments and Other Development Organizations

CDI is a national agency of the Government of Honduras. The organizations below provide the indicated assistance:

- o United States Government, through the Agency for International Development, financial assistance for the Program on Rural Technology;
- o Government of the Netherlands, technical assistance;
- o Agrarian National Bank of Development, coordination of the financing of industrial and rural development;
- o National Institute of Professional Training, training of personnel for small business;
- o National Autonomous University of Honduras, through the Center of Information, Unit of Engineering, Physics, and Human Resources, research and industrial information;
- o Ministry of Natural Resources, through the Unit of Adjustment and Development, and General Directorate of Mining and Hydrocarbons, adaptation of appropriate technologies and chemical analysis;
- o High Council of Economic Planning of Honduras, coordination of national working projects;
- o Industrial Information Center, Central Bank of Honduras, publications and information to small and middle-level industrial enterprises; and the Department of Industrial Research of the Central Bank of Honduras, chemical analysis;
- o National Fund for Development (FONDEI), financing for small and middle-level industrial enterprise;

- o InterAmerican Bank, finances for projects on crafts;
- o Action Committee on Crafts, Latin American Economic System (SELA), promotion, marketing on crafts, and technical cooperation;
- o ICAITI, Guatemala, industrial information and chemical analysis, and coordination of projects on alternative energy sources;
- o Volunteers in Technical Assistance, technical assistance;
- o European Economic Community, technical assistance, craft design, marketing.

History

The Center was created by Law 687, November 10, 1978. Working operations started in January 1979.

Personnel

Academic Degree Description	Specialization				Total	Percent
	Economics	Administration	Technical	Other		
Post-graduate	1					.5
University	17	12	6	2	37	18.0
Asst. Prof.	6	7		8	21	10.5
2-Year College			16	87	103	52.0
Other			1	37	38	19.0
TOTAL	24	19	23	134	200	100.0

Physical Facilities

A documentation center is being organized. The Center has use of classrooms for training in arts and crafts; complete equipment of radio and TV of the Press Secretariat of the Presidency of the Republic; auditorium of the Center of Training in Arts and Crafts; and one minicomputer, #L-5000.

Library

The Center's 400-volume Library on administration, marketing, technology, mechanics, energy, industry, and agriculture is used by CDI personnel, field agents, small industrial enterprises, and trade workers in arts and crafts. Its duplicating facilities are free to CDI personnel; fees for outside orders depend on real costs. Inquiries should be sent to Information Service and Technical Resources (SIRT), CDI, at the address above.

Information Exchange

The Center exchanges information in Spanish with national and international centers. Information provided includes small industrial enterprises, agriculture, rural homes, methodology of administration, technology, social and

economic studies, bulletins, and pamphlets. National centers with which information is exchanged include: the Center of Industrial Development, Central Bank of Honduras; Information Center, Ministry of Natural Resources; and Information Center, National Autonomous University of Honduras. International centers include UNIDO, VITA, INFOTEC-CONACIGT. Information is also given to specialists in other information centers. Costs of services depend on the type of orders.

Publications

The Center publishes Information Bulletin CDI-PTR bimonthly in Spanish for an audience of 1,500 small industry personnel, farmers, and rural homes. It contains news, technical materials, and information on administration.

Research

Research and studies are conducted in the following fields: diagnosis on administration of small industries; small industry sector in the national economy; economic and social status of local communities; production processes in different industries; marketing networks; credit systems; appropriate technology.

By agreement, the Center uses the laboratory of food technology and industrial chemistry of the Information Center of the Central Bank of Honduras, and also of the Industrial Information Center, Unit of Engineering, Physics, and Human Resources of the National Autonomous University of Honduras on transfer of technology and technical information. Other services are provided for General Direction of Mining and Hydrocarbons, Ministry of Natural Resources; National Service of Aqueduct and Sewerage (SAANA); General Direction of Food Control, Ministry of Public Health. Inquiries should be made to the Center at the address above.

Training

The CDI has means to provide training on the following topics for artisan workers: woodwork, fibers, metals, hides, ceramics, cabinet-making, sewing and tailoring, embroidering, and sericulture. A diploma is given for completion of the 22-month courses. Primary education, vocation, and entrance examination are the requirements. Tuition and expenses amount to U.S. \$250. All courses are given in Spanish; translation services are not available.

Consulting Services

Through CDI, technical assistance is given by experts of the United Nations to small industry owners.

Funding

When funds are available, CDI finances projects through loans to small industry and artisan workers.

INDUSTRIAL INFORMATION CENTER
CENTRAL BANK OF HONDURAS (CIIBANTRAL)

Principal Officer

Lic. Jose Ricardo Freoje Mejia
Department of Industrial Research

Telephone Numbers

22-2270, 22-2279, ext. 376

Address

CIIBANTRAL
21. Calle 61 y 71 Ave.
Tegucigalpa, D.C., Honduras

Telex Code

1121

Cable Code

BANTRAL HT

Mailing Address

CIIBANTRAL
P.O. Box 58-C
Tegucigalpa, Honduras, C.A.

Relationships with Governments and Other Development Organizations

This Center is related to the Organization of American States (OAS) project on Scientific and Technological Information, and Rural Technology. It is also sponsored by AID. It maintains exchange of information with the Net of Central America and the Caribbean Centers of Information, and gives technical assistance to private enterprises.

Objectives

To provide services of information to the chemical and food industry, to cooperate in the solution of its problems, to improve its productivity, and to promote technological change.

History

The OAS encouraged the creation of the Center as a means to promote economic and social development, and it helped in the selection, in 1976, of the Central Bank of Honduras as the agency most suitable to organize and develop the center. Since then both the Central Bank of Honduras and the OAS, as a cooperative agency, are responsible for the Industrial Information Center.

Personnel

The Center's personnel include two bachelors in economics, two chemical engineers, a mechanical engineer, a bachelor in chemistry, four bachelors in chemistry and pharmacy, and a librarian.

Physical Facilities

The facilities consist of a Library and a laboratory for chemical analysis.

Library

The Library contains 2,300 volumes on food technology, industrial chemistry, and chemical analysis. It also provides photocopying and question and answer services. Costs for photocopying are U.S. \$.13 per regular size page. There is a minimum charge of U.S. \$10.00 for the question and answer service.

Translation from Spanish into English is U.S. \$2.50 per page, which includes typing. These services are available to industrialists and researchers. Inquiries should be sent to CIIBANTRAL, Department of Industrial Research, at the address above.

Information Exchange

There is exchange of information with the Net of Central America and the Caribbean Centers of Information. There are no formal agreements. The exchange is done through the Bulletin of Technical News and the question and answer service, as well as INDOTEC from the Dominican Republic and ICAITI of Guatemala. Languages used are Spanish and English.

Publications

Bulletin of Technical News is published monthly in Spanish and English for 800 industrialists and researchers. It includes articles on food technology, chemistry, administration, and management. A free subscription may be obtained by writing to CIIBANTRAL, Department of Industrial Research, at the address above.

Research

The service on questions and answers includes research and analysis of the information about specific subjects. Chemical laboratory analysis about the elementary composition of food is conducted. Services may be utilized by the industrial sector, government institutions, and others. Cost varies according to the type of samples to be analyzed. Inquiries should be sent to Lic. Jose Ricardo Freije Mejia, Jefe Department of Industrial Research, at the address above.

INSTITUTE FOR AGRICULTURAL AND INDUSTRIAL DEVELOPMENT (IDAI)
Institut de Developpement Agricole et Industriel

Principal Officer
Bernard Fatton, Director General

Telephone Number
2-1969

Address
Institute for Agricultural and
Industrial Development
Angle Rues de Quai et des Miracles
Port-au-Prince, Haiti

Telex Code
3490116

Cable Code
IDEV

Branch Offices

Industrial Credit Agency: Rue Capois. Branch Offices: Gonaives, Mirebalais, Petit-Goave, Cayes, Agence Port-de-Paix, Croix-des-Bouquets, Cap-Haitien.

Objectives

According to the Organic Law of the Institute, its main objective is economical development and expansion in agriculture and industry. It finances, directly or indirectly, by investing or supplying credit to programs and specific projects by individuals, cooperatives, and societies, in order to promote agriculture (including forestry, stock-farming, and fishing), industrial production, and tourism development.

History

The Institute was founded in July 1961.

Personnel

On January 31, 1983, the staff included: six lawyers, nine engineers, 84 bookkeepers, 40 agronomists, 11 mechanics, 19 economists, three chemists and biologists, and 131 agricultural technicians, 42 drivers, 184 secretaries, typists, and administrative employees.

Library

A library of about 2,500 volumes on technology and agricultural development is maintained for use by the employees of IDAI.

Training

The Institute holds information and training sessions for clients in the branch offices, as well as short-term seminars to train and place branch office employees.

INSTITUTE FOR WOMEN'S STUDIES IN THE ARAB WORLD (IWSAW)

Principal and Contact Officer
Dr. Julinda Abu Nasr, Director

Telephone Numbers
811968/69/70/71

Address
Institute for Women's Studies
Labban Street
Beirut, Lebanon

Telex Code
23389 LE

Cable Code
BECOGE BEIRUT

Mailing Address
Institute for Women's Studies
P.O. Box 13-5053
Beirut, Lebanon

Relationships with Governments and Other Development Organizations

IWSAW, an Institute of Beirut University College (BUC), maintains relations through action programs, research, conferences, and exchange of information with Lebanese and other Arab governments, UN agencies, women's organizations, University departments, and research centers.

Objectives

- o To promote better understanding of women in the Arab world with special reference to their status and role within and outside the context of the home.
- o To assess and evaluate the impact of change on the role of women and their potential to influence change.
- o To promote and facilitate communication among individuals, groups, and institutions concerned with women and children in the Arab world.
- o To provide knowledge on current issues relating to women and children to further the development of the BUC curriculum.

History

The Institute for Women's Studies in the Arab World (IWSAW) was established at Beirut University College in October 1973 through a grant from the Ford Foundation in order to promote a better understanding and awareness of the changing role of the Arab woman and her potential in influencing change.

Personnel

Dr. Julinda Abu Nasr, Director of Institute
Ms. Rose Ghurayyib, Editor of Al-Raida, Institute's quarterly newsletter
Ms. Irene Lorring, Associate Researcher
Ms. Nuha Azar, Executive Secretary
Contracted researchers for special research projects

Physical Facilities

IWSAW has access to all Beirut University College facilities.

Library

The IWSAW Documentation Center, part of the Beirut University College Library, contains around 1,500 books and 2,500 periodicals, individual articles, unpublished papers, etc., on women in general and Arab women in particular. The Documentation Center is open to the public. A small fee is charged for non-college people. Inquiries should be made to IWSAW.

Publications

Al-Raida, a quarterly newsletter, is published in English and covers news of women in the Arab world and other parts of the world. Copies can be secured from IWSAW. Readers include University students, professors, researchers, and people interested in women's activities and development. Circulation is around 1,000; the charge for subscription is \$15. (U.S.), plus \$3 (airmail charges). Direct subscription inquiries to Al-Raida, IWSAW. Other publications of IWSAW are listed in the Research section of this profile and may be purchased.

Other

Radio program for women on health in Arabic (tapes), 36 sessions, 20 minutes each. Price LL. 3000, about \$750 (on cassettes) and LL.5000, about \$1,250 (on reels). Inquiries should be sent to IWSAW.

Research

General research pertaining to women in the Arab world. Published research includes:

Monographs

(in Arabic)

- o "Women in Islam"
- o "Women and Work in Lebanon"

(in English)

- o "Women and Work in Lebanon"
- o "Arab Women and Education"
- o "The Development of Three Six-Year-Old Lebanese Children and Their Environment"
- o "Social and Moral Issues and Youth in Lebanon"

Books

- o May Ziadeh (in Arabic)
- o Contemporary Arab Women Poets (in Arabic)
- o Bibliography on the Status of Arab Women, Mansell Publishing House, London

Training

- o Preschool Teachers Training Workshop: non-credit
At least a high school level with knowledge of English and Arabic. Two semesters for teachers, twice a week. Fees: LL. 1200/semester (\$300). Accommodation available. Certificates of course completion are awarded. Inquiries should be sent to IWSAW/BUC.
- o Inservice Social Work Training Program
- o Course on "Women in the Arab World": three credits; college-level course offered in the spring of each year. Fees: U.. \$200.

Consulting Services

IWSAW staff members have served as consultants and project experts locally, regionally, and for UN agencies.

Conferences

Several conferences were planned but had to be cancelled due to the political situation in the country.

Funding

Subject to availability of funds, grants are available to those interested in research on Arab women. Grants are awarded on a competitive basis. Research proposals submitted to IWSAW are referred to its Advisory Committee. If approved and the money is available, the researcher gets a grant. Grants have not exceeded \$6,000 so far. Preference is given to individuals with a long-standing commitment to the Arab world who possess adequate qualifications to undertake significant research. Research must be original and should focus on the role and contributions of women in the Arab world, both within and outside the home. Research results will be made available to the Institute in either Arabic, English, or French. Grantees should complete their research within a one-year period.

INTEGRATED DEVELOPMENT CENTER (IDC)
SOONG JUN UNIVERSITY

Contact Officer
Dr. Yoon-Bae Ouh, Director-General

Telephone Number
828-9611

Address
Integrated Development Center
Soong Jun University
1-1 Sangdo-dong
Seoul, Korea 151

Cable Code
SJUIDC, SEOUL

Relationships with Governments and Other Development Organizations

A project of Soong Jun University, the Center has close working relationships with international organizations such as the Asian Development Bank, the Asian Productivity Organization, the IDRC of Canada, the United Board of Christian Higher Education in Asia in New York, and the Georgia Institute of Technology. The nature of these relationships is:

- o joint research with other organizations;
- o consulting contract with the government agencies, mainly for small industries; and
- o research contracts with government for policy formation and implementing measures for small industries.

Objectives

The major objective is to help small industries solve problems, both technical and managerial, so that they may expand their production capacities and create more jobs. The principal fields of activity include:

- o technical and managerial extension services;
- o short-term courses and other training;
- o industrial research and case studies; and
- o consulting services for both industries and government agencies.

In addition to these, the Integrated Development Center has used much of its resources to develop low cost technologies appropriate to the situations of small industries as well as small farmers.

History

The Integrated Development Center was established in March 1973 with assistance from the Georgia Institute of Technology, Atlanta, Georgia, U.S.A. From 1974 to 1978, AID supported financially joint programs for helping small industries improve their productivity and create more employment opportunities. The IDC has been, since its inception, an integral part of the ongoing university educational programs of Soong Jun University, which was founded by American Presbyterian Church missionaries in 1896.

Personnel

The University's academic departments and research institutes are fully utilized where necessary. The University has a College of Engineering, College of Law and Economy, College of Liberal Arts and Sciences, and the Graduate School.

Physical Facilities

The University has sufficient physical facilities to deal with IDC's objectives so far, but growing demands from industries and the government make expansion in both physical facilities and personnel inevitable in the coming years.

Library

In addition to the normal functions of the University's Library, IDC offers free access to its collection of published materials mainly in the field of small industry development in Korea and abroad.

Information Exchange

IDC offers an information exchange service in connection with its technical and managerial extension services to small industries. Some domestic information service organizations and international organizations have been linked up with IDC's information service.

Publications

IDC does not publish any periodicals, but distributes research monographs.

Research

IDC conducts research in development policy of small industry and offers extension services to small industries. It also undertakes identification of technical and managerial problems of small industry sectors, especially in the case of technology transfer, productivity, quality control, etc., and training for entrepreneurship development. The engineering laboratories and facilities in the University are utilized in IDC's activities. Use is limited to IDC technical personnel and professors and there is a minimum charge for raw materials.

Training

At present, IDC training programs are offered only to local small industry owners, managers, engineers, and technicians in the Korean language.

Consulting Services

Consulting services have been given under contract to the government and small industries in policy formation, problem identification, and technical problems.

Requirements and Criteria

IDC welcomes anyone interested in small industry development.

INTERMEDIATE TECHNOLOGY DEVELOPMENT GROUP, LTD. (ITDG)

Principal Officer

Dennis Frost, Chief Executive

Telephone Number

01-836-9434

Contact Officer

Steve Bonnist, Information Officer

Telex Code

268312 Westcom G Attn INTEC

Address

ITDG
9 King Street
London WC2E 8NW
England

Cable Code

IT DEV, LONDON WC2

Branch Offices

Reading, Berkshire, Rugby,
Mortimer, Birmingham, and Oxford
(All in England)

Relationships with Governments and Other Development Organizations

ITDG is an independent organization which offers advice to individuals, institutions, non-governmental and governmental aid organizations, and international development bodies. Its links are nonformal, except in the case of contracted consultancies. It works in association with Appropriate Health Resources and Technologies Action Group (AHRTAG) and IT Building Materials Workshop, which grew out of the Group.

Objectives

The Group aims to identify, develop, test, promote, and advise on those technologies which are intermediate in scale and suitable for use in most rural environments. The principal areas of work are in agriculture, water, renewable energy, small industries, transport, construction and building materials, small-scale mining, and forestry. The Group is also concerned with institutional aspects of technology choice and usage. The Group provides a technical inquiry service, and is able to identify, develop, and test hardware; undertake market and feasibility studies; and publish results. ITDG works in collaboration with local institutions in all cases and is able to locate funding for the establishment of manufacturing facilities using new or unfamiliar small-scale products or processes.

History

The Group was founded by E.F. Schumacher (author of Small Is Beautiful), in 1965. It began as a voluntary body, with the establishment of technical advisory panels, providing advice to field workers. As experience and workloads grew, full-time staff were taken on. The Group now maintains 18 Technical Panels, with 300 members drawn from industry, universities and polytechnics, aid organizations, business and consultancy companies, and has a full-time staff of 60, publishing and consulting subsidiaries, five specialist units, two specialist subsidiaries (IT Power, Ltd.; IT Transport, Ltd.), and a marketing and commercialization subsidiary (Development Techniques, Ltd.). Two independent organizations--Appropriate Health Resources and Technologies Action Group and IT Building Materials Workshop, Ltd.--have grown out of the ITDG and work in close association with it.

Personnel

Through its Technical Panels, the Group has access to skills and knowledge in universities, aid organizations, and industry.

Of 60 full-time staff, 40 are engineers, four economists, and seven management. The rest are clerical and secretarial.

Physical Facilities

Two buildings in London house the "core staff" which coordinate the activities of the Group, the staff of IT Publications, and a bookshop.

IT Industrial Services in Rugby has exhibition facilities and a computer/data base.

The Agriculture, Water, and Energy Units are located at the Applied Research Station of Reading University and have access to land and workshops to develop and test hardware such as water pumping windmills, irrigation channels, stoves, etc. The Stoves Project has an Apple computer and gas/combustion analyzer equipment.

IT Transport has workshops and offices near Oxford.

IT Power has offices at Mortimer, near Reading, and has a computer/data base.

IT Building Materials Workshop (independent, but in close association), has offices and workshops in Birmingham, along with firing kilns for bricks and tiles.

AHRTAG has offices and a library in London.

Library

The "library," which contains technical, policy, case study, economic, and social information, is decentralized, located with the specialist units. It is for staff use only at present, for reference in answering technical inquiries.

Information Exchange

ITDG operates a free technical inquiry service open to people working in developing countries. Inquiries should be as specific as possible and provide background information. Most inquiries are in English, although the Group can work in Spanish, German, and French. Inquiries should be addressed to the address above.

Publications

ITDG publishes the quarterly, Appropriate Technology, in English for a readership of 3,000 field workers. It contains a mixture of technical information, project descriptions, and theoretical articles. ITDG also prints a quarterly, Waterlines, devoted to technologies for drinking water and sanitation. Subscription inquiries should be directed to John Elford, Manager, at the

address above. ITDG publishes an average of six new books each year on the subject of appropriate technology for developing countries.

Research

Research is undertaken in the following fields:

- o agriculture;
- o water: lifting devices, storage, channel, treatment, and purification;
- o energy: wind, solar, steam, biomass, micro-hydro;
- o transportation: roads, low-cost vehicles, river;
- o small industries: foundry, glass, textiles, paper, cements, metals, ceramics;
- o construction and building materials: systems, manufacture, management;
- o small-scale mining: quarrying, processing;
- o forestry: planting, harvesting, conservation, processing, forest products;
- o recycling: textiles, paper, plastics, oil.

Consulting Services

IT Consultants, Ltd., undertakes to provide expertise on short-term missions. It can provide consultants to undertake market, feasibility, design, and evaluation studies in all fields relating to small-scale production.

INTERNATIONAL ASSOCIATION FOR RURAL DEVELOPMENT (AIDR)

Address

International Association for
Rural Development
Rue du Commerce 20--Bte 9
1040 Brussels, Belgium

Telephone Numbers

(02) 512.87.19, 512.87.92

Telex Code

62928

Cable Code

INTERDEVELOPRU

Relationships with Governments and Other Development Organizations

AIDR has contracts for studies and implementation of development projects with BADEA (Khartoum), International Bank for Reconstruction and Development (Washington), European Fund for Development (Brussels), BAD (Abidjan), Commission of European Community, UNICEF, United Nations High Commission for Refugees (Geneva), EuroAction Accord (EAA-London), Interpares (Ottawa), UNEP (New York), FAO (Rome), FIDA (Rome), and the Governments of Belgium, Burundi, Cameroon, Cape Verdi, Comoros, Ethiopia, Mali, Rwanda, Upper Volta, and Zaire.

Objectives

AIDR's objectives and principal activities include total development of regions: agrarian economy; agronomy; stock-farming; forestry; collective infrastructures: roads, rural construction (dams, bridges, canals, etc.), construction of schools, hospitals, shops, slaughterhouses; rural hydraulics, irrigation, drainage; rural lodging; settling migrant or displaced populations; assistance to small and middle-sized enterprises; cooperatives; renewable energies: solar, biomass, wind; technical assistance and training.

History

AIDR was founded in 1964 by the former directors of the Foundation for the Indigenous Welfare, which was a public organization founded in 1947 to give assistance to the rural population in Zaire, Rwanda, and Burundi. The foundation of AIDR was intended to pursue and extend the activities of the Foundation to other developing countries. In 1974, a new team of directors succeeded the former group; they increased and diversified the number of activities of AIDR.

Personnel

AIDR's staff includes:

- o 52 civil engineers and agronomists;
- o 14 management advisors, economists, and planners;
- o 20 middle management specialists;
- o 80 technicians;
- o 394 primary school teachers;
- o 28 nurses;
- o between 2,000 and 3,000 mechanics, drivers, and unskilled laborers.

Physical Facilities

AIDR has a headquarters office in Brussels; a workshop in Meux, Belgium; and offices and workshops for delegations in Burundi, Cameroon, Rwanda, Upper Volta, and Zaire.

Library

The AIDR Library contains 2,500 workshop reports, studies, and books.

Research

Experimental research is done on new energies and appropriate technology.

Consulting and Other Services

Consultants and experts, planners, program implementers, and advisors are provided.

AIDR's services include identification, planning, preparation, and evaluation of rural development and other projects, including economic growth projects, as well as the actual execution of the work of the project.

Additional Information

AIDR is a nonprofit, nongovernmental organization of specialists contributing in various fields and disciplines, especially rural development, in developing countries. The large majority of AIDR's personnel are engaged in projects in developing countries.

AIDR is not primarily an organization for financial assistance and distribution of funds. While it may help in the search for funding in specific cases, AIDR's work is usually paid for by the host country or other development organizations or agencies.

INTERNATIONAL CENTER FOR THE IMPROVEMENT OF MAIZE AND WHEAT (CIMMYT)
Centro Internacional de Mejoramiento de Maiz y Trigo

<u>Principal Officer</u> Robert D. Havener, Director General	<u>Telephone Number</u> (905) 585-4355
<u>Address</u> CIMMYT Londres 40 Apartado Postal 6-641 06600 Mexico, D.F., Mexico	<u>Telex Code</u> 1772023 CIMTME <u>Cable Code</u> CENCIMMYT

Relationships with Governments and Other Development Organizations

CIMMYT has formal agreements with 25 governments and national and international organizations. It also has informal relationships with national institutions in 110 countries for training local scientists and for distribution of germplasm through its network of international nurseries. CIMMYT has branches in Santiago, Chile; Quito, Ecuador; Cali, Colombia; Lisbon, Portugal; Ankara, Turkey; Aleppo, Syria; Islamabad, Pakistan; Dhaka, Bangladesh; Bangkok, Thailand; Kumasi, Ghana; Ibadan, Nigeria; Nairobi, Kenya; and Harare, Zimbabwe.

Objectives

CIMMYT's objective is to work with colleagues in national programs to raise the productivity of resources committed to the production of maize and wheat through the provision of technical assistance.

History

CIMMYT was founded as a joint venture by the Government of Mexico and the Rockefeller Foundation.

Personnel

CIMMYT employs 74 scientists and administrators (80 percent having Ph.D.s) and 620 support staff including laboratory and field technicians and office personnel.

Physical Facilities

CIMMYT headquarters is situated on approximately 80 hectares at El Batan, about 45 kilometers from Mexico City. The facilities include 500 acres of experimental, irrigated land; a headquarters office building; scientific laboratories and greenhouses; dormitories for trainees; 30 apartments for post-doctoral candidates and visiting scientists; a guesthouse with 18 individual rooms; recreational areas; and a full-time cafeteria. In addition, there are classrooms, a library, and a computer center, as well as four large cold storage rooms for conservation of maize and wheat germ plasm banks.

CIMMYT has field stations in Poza Rica, Vera Cruz; Tlaltizapan, Morelos; Texcoco, Mexico; Atizapan, Mexico; and Cd. Obregon, Sonora.

Library

The Library contains 3,000 books and about 150 periodicals on the subjects of wheat, barley, triticale, and maize improvement and associated disciplines. There are no restrictions on the use of the Library.

Publications

CIMMYT publishes the following reports annually in English: CIMMYT Review (also in Spanish), CIMMYT Maize Annual Report, CIMMYT Wheat Annual Report, Maize Facts and Trends, Wheat Facts and Trends, and CIMMYT Report to Donors. In addition, the Center publishes once or twice a year CIMMYT Today, in English, Spanish, and other languages. For information, write to the Director General at the address above.

Research

CIMMYT conducts extensive research on the improvement and stabilization of production of wheat, barley, maize, and triticale. At its headquarters in El Batán, the Center conducts research on maize, wheat, and sorghum. At its field station in Atizapan, it conducts research on wheat and maize; at Poza Rica, on maize, sorghum, and wheat; and at Tlaltizapan, on maize and sorghum. In its laboratories, the Center carries out research on maize insect rearing, protein quality, industrial grain quality, cytology (maize and wheat wide crosses), plant pathology, soil and plant tissue analyses, and aluminium tolerance.

Training

Training is a major CIMMYT activity. The principal objective of CIMMYT's various training programs is to heighten the professional expertise of agricultural personnel in developing countries. CIMMYT attempts to reach those candidates who demonstrate leadership ability and who are potential research leaders in national programs. The Center's training philosophy stresses practical and applied skills directed toward increasing the level and dependability of crop yields.

Inservice training candidates must be recommended by their employers. CIMMYT's acceptance of nominated candidates is based on a review of appropriate documents and a personal interview. Candidates for the CIMMYT inservice training programs should (a) be employed by a public or private institution, working in research or related regional or national programs for the improvement of maize or wheat production; (b) have studied to the B.S. level or its equivalent; (c) obtain permission from their parent institution both to ensure continued payment of trainees' salaries or to guarantee their employment after training; (d) have command of either English or Spanish (CIMMYT's official languages); (e) preferably be under 35 years of age; and (f) have excellent physical and mental health.

All degree training involves specific agreements between a particular University in a developed or developing country which will eventually grant the degree and a CIMMYT scientist(s) and associated programs within CIMMYT. In some cases, the thesis research is conducted at CIMMYT. In other cases, the research will be carried out in the trainee's home country.

Scholarships to CIMMYT's inservice training program may be provided by the employer of prospective trainees, national agencies, international agencies or institutions, or CIMMYT. While at CIMMYT, trainees receive a stipend for room, board, and incidental expenses. Local travel, medical insurance, supplies, and materials are also provided. Scholarships for post- and pre-doctoral fellows are similar to those described for inservice trainees, but at a different level, since most such individuals come to CIMMYT with families.

For detailed information on course outlines, registration, costs, and scholarships, write to Training Officer (Program), CIMMYT, at the address above.

Consulting Services

Consulting services, restricted to short-term activities, must be related to CIMMYT's programs and associated activities.

Funding

Except for training, CIMMYT is not a grant making organization.

INTERNATIONAL CENTER FOR LIVING AQUATIC
RESOURCES MANAGEMENT (ICLARM)

Principal Officer

Richard A. Neal, Director General

Telephone Numbers

817-5163; 817-5255

Address

ICLARM
17th Floor, Metro Bank Plaza Building
Buendia Avenue Extension
Makati, Metro Manila,
Philippines

Telex Code

45658 ICLARM PM

Cable Code

ICLARM Manila

Mailing Address

ICLARM
MCC P.O. Box 1501
Makati, Metro Manila,
Philippines

Relationships with Governments and Other Development Organizations

ICLARM has numerous working relationships with fisheries research groups and universities in Egypt, Indonesia, Israel, Kuwait, Malaysia, Mexico, Peru, the Philippines, Taiwan, Thailand, and other countries.

Objectives

ICLARM is an international, nonprofit research organization, which has as its objectives:

- o to conduct and assist with research on fish production, management, preservation, distribution, and utilization to assist peoples of the world in meeting their nutritional and economic needs;
- o to improve the efficiency of culture and capture fisheries through coordinated research, education, and training, linked with appropriate development and extension programs;
- o to upgrade the social, economic, and nutritional status of people in developing countries through improvement of small-scale fisheries.

History

ICLARM was established by the Rockefeller Foundation in 1977 in response to the need for a center to address research requirements related to fisheries development. Since that time, several international and bilateral donors have contributed to ICLARM's financial support. ICLARM has grown rapidly in response to the broad requirements to fill existing research gaps related to tropical aquaculture, resource development and management, and traditional fisheries.

Personnel

The Center employs 13 senior scientific staff members and 20 support staff members.

Physical Facilities

ICLARM facilities in Manila include a Library, conference room, computers, and a publications unit. Research is conducted in the facilities of other institutions on a cooperative basis.

Library

The ICLARM Library contains 4,000 publications on the subject of fisheries and aquatic sciences; it is open to all. There are nominal charges for photocopying only. Searches on aquatic science data bases are available on request; charges are at cost. Inquiries should be addressed to the Librarian at the mailing address above.

Information Exchange

ICLARM exchanges its newsletter and all other publications with selected institutions. For information, write to the Librarian.

Publications

ICLARM Newsletter is published quarterly in English. It is distributed to approximately 3,000 aquatic scientists and fishery managers, as well as other development workers. The newsletter is free to individuals in developing countries; subscriptions for others are \$6.00 (surface) or \$14.00 (airmail). In addition, ICLARM publishes in English the following at irregular intervals:

ICLARM Technical Reports,
ICLARM Bibliographies,
ICLARM Translations,
ICLARM Studies and Reviews,
ICLARM Conference Proceedings.

These publications are disseminated to about 1,000 aquatic scientists and graduate students. The prices vary; inquiries should be directed to the Editor, ICLARM, at the mailing address above.

Research

ICLARM conducts a broad range of research activities in:

- o aquaculture--tilapias, mullet, carp, milkfish, molluscan shellfish;
- o integrated agricultural/aquaculture--fisheries and waste recycling;
- o tropical stock assessment and resource management; and
- o traditional fisheries--economic and social aspects of community development, legal structures.

Research is conducted in a number of research laboratories and facilities belonging to developing country institutions.

Training

There are limited research training opportunities for senior research fellows conducted in English in Manila. Arrangements may be made on an individual basis, space permitting. All field activities include training elements and opportunities for special scientific training at the research site. For additional information, write to the Director General at the mailing address above.

Consulting Services

Expertise is available for research planning and implementation on all aspects of aquatic resources management.

Special Services

ICLARM can arrange conferences or workshops of any size on topics related to aquatic resources management, if financial support is provided.

INTERNATIONAL CENTER FOR TROPICAL AGRICULTURE (CIAT)
Centro Internacional de Agricultura Tropical

Principal Officer
Dr. John L. Nickel, Director General

Telephone Number
580111

Contact Officer
Dr. Fritz Kramer
Assistant to Director General

Telex Code
05769 CIATCO

Address
Centro Internacional de Agricultura Tropical
Apartado Aereo 67-13
Cali, Colombia

Cable Code
CINATROP

Relationships with Governments and Other Development Organizations

CIAT has technical, working relationships with virtually all national agricultural research institutions in Latin America and the Caribbean. National institutions include official government research agencies, universities, and semi-official research and development organizations. CIAT's relationships to national systems are restricted to the following areas: cassava, field beans, tropical pastures, rice, and seed technology.

CIAT is under the aegis of the Consultative Group on International Agricultural Research (CGIAR).

Objectives and Principal Fields of Activity

To generate and deliver, in collaboration with national institutions, agricultural technology which will contribute to increased production, productivity, and quality of specific basic food commodities in the tropics, principally in countries of Latin America and the Caribbean. In this manner, CIAT seeks to help improve the economic situation of the agricultural producers and raise the nutritional levels of both rural and urban populations.

History

CIAT was organized in 1969 by the Rockefeller Foundation, with the collaboration of the Ford Foundation and other agencies. When CGIAR was created in 1972, CIAT became the fourth international agricultural research center. It gradually focused its resources on four commodities: cassava, field beans, rice, and tropical pastures.

Personnel

CIAT's international, scientific, and administration staff is comprised of some 90 professionals. They are supported by 180 Colombian professional staff, plus 1,000 general support staff. A large majority of the scientific staff represents the agricultural sciences. The research staff is organized into multidisciplinary teams dedicated to each of the commodities in CIAT's mandate.

Physical Facilities

CIAT's headquarters are located on a 522 hectare site near Cali, Colombia. Total constructed area is about 12,000 square meters and consists of office space, laboratories, general working areas, training and conference facilities, food and housing facilities, graphic arts production facilities, warehouses, motor pool, and others. About 300 hectares are set aside for field experiments. CIAT also manages two sub-stations south of Cali. Experiment sites are located as follows: CIAT Headquarters near Cali; CIAT substation "Quilichao," 50 kilometers south of Cali; CIAT sub-station "Popayan," near the city of Popayan (Department of Cauca, Colombia); and the Carimagua Research Center, in the Eastern plains of Colombia, co-managed by CIAT and Colombia Agricultural Institute (ICA).

Library

There are 45,000 volumes in the Library. CIAT provides complete documentation services (including development/distribution of abstracts, and literature searches) in the fields of cassava, field beans grown under tropical conditions, and tropical pastures. Subscriptions to these services are available at nominal cost. Documentation services are provided in English and Spanish.

Information Exchange

Information exchange services are available. CIAT can contribute with publications produced by the center, and with its documentation services on cassava, field beans, and tropical pastures. Address inquiries to CIAT, Communication and Information Unit.

Publications

CIAT publishes in Spanish a quarterly illustrated newsletter on each commodity--beans, cassava, tropical pastures, rice--as well as on seed technology. A mixture of technical and nontechnical articles is published. Readers include professionals working on respective commodities at the national level. The current circulation is approximately 1,000 for each newsletter. A free subscription is available by writing Communication and Information Support Unit, CIAT. A subscription to any one commodity newsletter assures that the subscriber also receives other relevant informational materials produced by CIAT on the respective commodity.

Research

Categories of CIAT's research available for inquiries from other countries include information and germ plasm materials and production technology in the areas of cassava, field beans, tropical pastures, rice (for Latin America), and tropical pastures.

Training

Training is offered only at the postgraduate level and is given in the following fields of specialization: cassava, field beans, rice, tropical pastures, and seed technology. Offered are individualized internships of 3-12 months' duration; and opportunities to do thesis research at CIAT for M.S. or Ph.D.

degrees; the academic part of degree credit is completed at an accredited university--CIAT itself is not a degree-granting institution. Selected courses are also offered by CIAT, normally as an introductory experience to be followed by individualized internships. Training is given primarily in Spanish, but may also be given in English. Most CIAT training is in direct support of collaborating national institutions. Send inquiries to Coordinator, Training and Conferences, CIAT.

Consulting Services

While CIAT staff travels extensively to coordinate CIAT research and development work with national agencies, CIAT does not normally provide consulting services per se.

Conferences

CIAT continually organizes conferences, seminars, and workshops around topics in the realm of CIAT's mandate. In addition, CIAT makes available its conference infrastructure to other organizations for the holding of events that are in direct support of agricultural research and development. Send inquiries to Coordinator, Training and Conferences, CIAT.

Funding

CIAT does not provide grants but has funds available for a limited number of scholarships for training at CIAT. These scholarships are awarded on a competitive basis and only when all other funding possibilities have been exhausted.

Requirements and Criteria

CIAT services are primarily intended for collaborating national systems (i.e., official national research programs, universities) and are intended to support their work in the commodities in CIAT's mandate (including seed technology).

The Outreach/Training Wing houses the training center, classrooms, multiple use studio, lunchroom, communications unit, Library, conference rooms, projection room, and Director of Outreach's immediate staff.

The Laboratory Wing houses the Director of Fertilizer Technology's immediate staff, quality control lab, phosphate chemical processing and corrosion lab, two improved nitrogen fertilizer labs, two instrumentation labs, thermal treatment lab, scanning electron microscope lab, and soil phosphate lab. It also houses the Director of Agro-Economic's immediate staff, instrumentation laboratory, phosphate laboratory, isotope laboratory, nitrogen laboratory, microbiology/sulfur laboratory, and Kjeldahl laboratory.

The Headhouse Wing houses the computer/data processing center, headhouse lab, soil drying and grinding room, plant tissue drying and grinding room, growth chamber room, soil preparation room, soil bulk storage area/loading dock, greenhouses, photographic darkroom, conference room, electronics workshop, and basement storage.

The Pilot Plant houses the conference room; physical properties lab; quality control lab; general purpose lab; beneficiation lab; mechanical equipment room; maintenance shop; tool storage; pilot plants--wet-acid, bulk-blend/granulation, wet beneficiation; sample preparation room; crushing-grinding dry beneficiation; chemical storage; equipment storage; controlled temperature humidity room; bagging and storage area; receiving area; and settling pond.

IFDC is approximately 200 miles from Atlanta, Georgia.

Library

The IFDC/TVA Library has over 45,000 volumes on fertilizer-related subjects. There is no charge for general use of the Library. It is open to any IFDC or TVA staff member or TVA clients. Inquiries should be sent to IFDC.

Publications

The IFDC Report is published quarterly in English (3,000) and Spanish (500). This quarterly newsletter includes illustrated articles, both technical and nontechnical, on fertilizers and is sent free to personnel in government and industry who deal with fertilizer in agricultural development.

Data Processing

The IFDC computing facility is built around the Perkin-Elmer 8/32 Megamini Computer System. Six terminals, a line printer, a card reader, a tape drive, two 80-megabyte disks, and a modem are attached to a central processor with one megabyte of memory. Users have a choice among several programming options. Statistical analysis is available through the Statistical Package for the Social Sciences (SPSS). Computer graphics are available through Tektronix PLOT 10 software and a graphics terminal and flat-bed plotter. Program development can be carried out in FORTRAN or BASIC. A remote job entry program (RJE) allows data base access and batch job submission to other computers, such as TVA's IBM computers and the GE timesharing system. Users are visiting scientists, trainees, IFDC personnel.

Audiovisual Aids

Extensive audiovisual facilities are available, including 35 mm slides, with and without sound tape; overhead transparency projection; 16 mm motion pictures; audio system; videotape system; and an Earmark wireless unit for simultaneous translation.

Research

Research and other services available from IFDC include: technical assistance; special studies; training; fertilizer marketing systems; fertilizer production technology; fertilizer evaluation; phosphate research; nitrogen research; sulfur research; potassium, calcium, and magnesium research; adoption and demand of fertilizers; economic evaluation of fertilizer materials; fertilizer policy.

IFDC is a very modern, well-equipped research facility with a wide range of specialized laboratories, pilot plants, greenhouses, and growth chambers. IFDC also has collaborative agreements with a number of national and international organizations that enhance its research capabilities. Experimental quantities of fertilizer are produced in IFDC pilot plants and tested by the Center's collaborators. IFDC provides special studies in marketing, evaluation, production, policy, technical assistance, and training, in cooperation with private, national, and international organizations for the benefit of developing countries.

Training

The IFDC training programs are designed to develop the technical knowledge and managerial skills of developing country personnel in all aspects of fertilizer production, marketing, and efficiency research. Programs are adapted to the specific needs of individuals, organizations, governments, or sponsoring agencies interested in fertilizer sector development. Group training programs are offered in three areas: production/technology, marketing/distribution, and efficiency research. In addition, IFDC provides specialized training to individuals at the request of their government, institute, or company.

Group programs are conducted both in the regions and at IFDC's Headquarters in Muscle Shoals, Alabama. They are provided for personnel in all phases of fertilizer sector operation including production and plant managers, engineers, and supervisors; marketing and distribution specialists; planning officials; research scientists and managers; extension directors and supervisors; and use efficiency technicians. Generally, programs vary in length from one to six weeks and the average training fee is \$300 per week.

However, to encourage participation in the IFDC training courses, in some cases the training fee may be waived in the form of a grant or tuition. IFDC occasionally provides grants for sabbaticals and trainees for various programs being conducted at IFDC. The purpose is to provide the opportunity for transfer of knowledge about the fertilizer sector to the participant's country in an effort to strengthen the country's agricultural development. The participants are chosen for maximum benefit that would be obtained by those who are otherwise unable to attend because of funding. The actual charge for IFDC's services is dependent upon the objectives and purpose of services being provided.

Consulting Services

IFDC has a multinational staff consisting of engineers, chemists, geologists, agronomists, economists, market development specialists, and support personnel from diverse geographical regions and career background to provide the nucleus for IFDC program implementation. The staff provides its expertise on request as technical assistance, special studies, and training. These services may be provided at IFDC or on location depending on the request. The service may last from a few days to several years. The IFDC also draws upon the expertise of the personnel at TVA's National Fertilizer Development Center, from private industry, and other organizations and institutions, as needed. IFDC offers its services on a reimbursable basis.

Requirements and Criteria

If an individual is to be at IFDC for more than two weeks, a medical examination is required. Adequate lodging is available. An individual should arrange for transportation (car rental) if he or she is planning to be at IFDC for several days or longer. There is no local public transportation except for taxis. IFDC will help individuals secure any or all of the above. Individuals should have a basic understanding of English (or have an interpreter), since the IFDC uses English as its basic language and the surrounding area is inhabited by English-speaking people.

INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE (IITA)

Principal Officer

E.J. Hartmans, Director General

Telephone Numbers

(022) 413422, 413011

Contact Officer

Jibade O. Oyekan, Head
Communications

Telex Code

31417 TROP IB NG

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IITA
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Ibadan, Nigeria

Cable Code

TROPFOUND, IKEJA, NIGERIA

Branch Office

Onne (near Port Harcourt)
Nigeria

Relationships with Governments and Other Development Agencies

IITA is a member of CGIAR and has signed and maintains collaborative research agreements with IRRI, CIMMYT, CIAT, WARDA, State University of Ghent (Belgium), Katholieke Universiteit Leuven (Belgium), Universite Catholique de Louvain (Belgium), University of the West Indies (Trinidad), Cornell University (U.S.A.), and Boyce Thompson Institute. Donors to IITA are Ford Foundation, Rockefeller Foundation, AID, Canada, United Kingdom, Belgium, Federal Republic of Germany, Norway, Japan, Netherlands, Australia, Nigeria, the International Fund for Agricultural Development, the UN Environmental Program, and the World Bank.

Objectives

IITA is a nonprofit foundation, the objectives of which are to improve the quality and quantity of food crops in the humid and subhumid tropics, through research and the maintenance of germplasm banks for three main groups: cereal grains, legumes, and roots or tubers.

History

IITA was established in August 1967 by a decree of Nigeria's military government; dedication of the Institute took place in April 1977. The initial funding was provided by the Ford and Rockefeller Foundations.

Personnel

Research teams at IITA are interdisciplinary and may involve any of the following specialists: program leaders, breeders, entomologists, pathologists, physiologists, soil scientists, agricultural economists, nematologists, microbiologists, weed scientists, and agricultural engineers. In all, there are about 100 principal staff members.

Physical Facilities

IITA's facilities include a library, classrooms, conference rooms (which accommodate 60 and 200 persons, respectively) with equipment for simultaneous translations. About 40 percent of the 1,000 hectare site is now open for

research, and another 80 hectare site at the high-rainfall station southeast of Nigeria is also in use.

Library and Information Exchange

The Library contains 21,000 books and 26,000 periodicals on the topics of tropical food crops, general agriculture, and agricultural research. There is a photocopy machine and microfilm readers. Use of the Library is free of charge to all interested persons. The Library compiles abstracts and bibliographies, produces and distributes current awareness documents, exchanges library accession lists, and answers questions by mail or telephone. Documents and other information are available in English and French. Inquiries should be sent to the Librarian, at the address above.

Publications

The Institute publishes the quarterly IITA Research Briefs, a technically-oriented, illustrated journal. It is printed in English and disseminated to approximately 7,000 individuals and organizations, including donor agencies, policy makers, and research and extension personnel. The publication is free of charge. Inquiries should be sent to the Communications Office, IITA, at the address above.

Research

IITA conducts research on general crop improvement and farming systems. Crops under study include yams, maize, rice, cowpeas, soybeans, cassava, sweet potatoes, and cocoyam. In addition, attempts are made to evolve appropriate technologies for different levels of tropical farmers, including farm implements and land clearing techniques.

There are two laboratory buildings, one for physical science and one for biological science. Crop rotation is practiced at the field sites. Fees for the use of field facilities are based on the scope of the research. The analytical laboratory occasionally performs services for universities, agricultural development authorities, some farming enterprises, and a few individuals. Inquiries should be sent to the Assistant Director for Farming Systems Program, IITA, at the address above.

Training

IITA gives training in the following categories: group courses (one to two months); undergraduate student vacation scholarship programs (two to three months); non-degree training (two weeks to nine months); and degree training (one to two years). Students in the degree program carry out the research portion of their requirement at IITA; later they return to their universities for the award of their degrees. Lectures are offered in English and French. All trainees are housed in the Institute's dormitories. Interpreters (French and English) are available in the classrooms and in the field. Tuition and all fees, including accommodation, amount to about U.S. \$1,000 per month.

Conferences

There is an annual schedule for conferences at IITA. Generally, the conferences are on agricultural and related subjects. Conference rooms are fully equipped for simultaneous translations. Organizations within CGIAR and other agriculture-related organizations may use the facilities. The usual charge for use of the facilities is U.S. \$1,000 per week. For information, write to the Director General, IITA, at the address above.

INTERNATIONAL LABORATORY FOR RESEARCH ON ANIMAL DISEASES (ILRAD)

Principal and Contact Officer
Director General

Telephone Number
592311 (Nairobi)

Address
ILRAD
P.O. Box 30709
Nairobi, Kenya

Telex Code
22040

Cable Code
ILRAD/NAIROBI/KENYA

Relationships with Governments and Other Development Organizations

ILRAD belongs to the Consultative Group for International Agricultural Research (CGIAR).

Objectives

To develop safe, effective, and economic control measures for livestock diseases which limit world food production. Primary disease targets are African animal trypanosomiasis and East Coast fever, a form of theileriosis.

Principal Fields of Activity

Research in parasitology, cell biology, immunobiology, immunology, biochemistry, molecular biology, pathology, and electron microscopy.

History

ILRAD was founded in 1973 by a Memorandum of Agreement between the Government of Kenya and the Rockefeller Foundation, acting on behalf of the CGIAR. The modern complex of laboratories and support facilities was largely completed by 1978 on a 70 hectare site near Nairobi provided by the Kenya Government. Research and training activities are guided by an international Board of Directors. Financial support has been contributed by the World Bank, UNDP, the Rockefeller Foundation, and the Governments of Australia, Belgium, Canada, Federal Republic of Germany, Ireland, Netherlands, Norway, Sweden, Switzerland, United Kingdom, and the United States of America.

Personnel

The ILRAD staff includes about 40 scientists, 40 technicians, and 260 support personnel, recruited from some 15 different countries.

Physical Facilities

Facilities include seven modern laboratories; offices; breeding units for laboratory animals, tsetse flies, and ticks; accommodation for cattle, sheep, and goats; training and conference rooms; a Library; a visitors' hostel; and staff houses. A 15,000 hectare ranch was purchased in 1981 with a herd of over 2,000 Boran cattle to provide animals for the research program.

Library

A highly specialized collection includes subscriptions to 202 scientific periodicals and over 2,000 books, covering the fields of immunology, parasitology, biochemistry, veterinary pathology, cell culture and entomology, among others. Inquiries should be sent to the Librarian, ILRAD.

Publications

An annual report is published in English and French with illustrations and summaries of research and training activities. Circulation is 2,000 in English and 1,000 in French. A series of brochures was published in 1982 in both languages describing ILRAD's programs. A newsletter is anticipated for 1983. Reprints of scientific articles published by ILRAD staff members are distributed to institutions in developing countries. Single copies of all publications are free of charge. Inquiries should be sent to the Editor, ILRAD.

Research

ILRAD's primary activity is basic research on African animal trypanosomiasis and East Coast fever. Scientific disciplines include parasitology, biochemistry, cell biology, immunobiology, pathology, and electron microscopy.

Training

Scientists, senior technicians, post-graduate students, and post-doctoral fellows receive specialized training for various periods on an individual basis. In addition, at least one major international training course is held at ILRAD every year, and within budgetary limits, a number of scientists from developing countries are sponsored to attend appropriate training courses offered by other institutions.

Conferences

One international conference is held every year on some aspect of trypanosomiasis or theileriosis research. Seminars are scheduled every two weeks.

INTERNATIONAL LIVESTOCK CENTER FOR AFRICA (ILCA)

Principal Officer

P.J. Brumby, Director General

Telephone Number

183215

Contact Officer

Dr. M. Sall,
Director International Liaison and Training

Telex Code

ILCA Addis 21207

Address

ILCA
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Addis Ababa, Ethiopia

Cable Code

ILCAF/Addis

Branch Offices and Field Stations

Branch offices are located in Gaborone, Botswana; Nairobi, Kenya; Bamako, Mali; and Ibadan and Kaduna, Nigeria. Field stations are located in Debre-Zeit and Debre-Berhan, Ethiopia; Mopti and Niono, Mali; and Fashola and Ikenne, Nigeria.

Relationships with Governments and Other Development Organizations

ILCA is a center sponsored by the Consultative Group on International Agricultural Research (CGIAR). It operates under:

- o general memoranda of agreement with the Governments of Botswana, Ethiopia, Kenya, Mali, and Nigeria; and
- o specific agreements with specialized institutes in those countries, including the Animal and Fisheries Development Authority in Ethiopia, the University of Nairobi in Kenya, and the University of Ibadan in Nigeria.

Objectives

ILCA's mandate is to assist, through research, training, and documentation, national efforts which aim to effect a change in production and marketing systems in tropical Africa so as to increase the total yield and output of livestock products and to improve the quality of life of the people. The program therefore emphasizes the social and economic aspects of livestock production as well as the biological and environmental aspects. The ILCA program spans the arid, subhumid, humid, and highland zones. In each of these zones, multidisciplinary teams are established and are not only evaluating the constraints to improved efficiency of production but also carrying out component research of these constraints.

History

ILCA was established in 1974 following the recommendation of two successive missions to evaluate the need for an international center devoted to improving the efficiency of livestock production in Africa. World attention had been focused on the arid regions of Africa by the severe and extended drought which had taken a heavy toll of both the animal and human populations. It was

recognized that much needs to be learned about the many existing systems of livestock production in Africa before effective research programs can be implemented. The first scientific staff were recruited in early 1975 and by 1976 the program was well underway. ILCA is a decentralized center with permanent headquarters located in Shola on the outskirts of Addis Ababa. Country programs are located in Botswana, Ethiopia, Kenya, Mali, and Nigeria.

Personnel

ILCA has 50 international and 20 local professional staff, as well as additional local staff members.

Physical Facilities

ILCA's headquarters facility in Shola is fully equipped with a very large library hall, several classrooms with simultaneous translation, one main conference room with capacity for 150-200 people with four language interpretation, several smaller conference rooms, and an HP 3000 3 computer.

Library

The ILCA Library contains more than 11,000 volumes on livestock production systems, as well as a comprehensive set of over 20,000 microfiches on non-conventional literature gathered all over Africa. Its periodicals collection includes more than 850 general and scientific publications, obtained through either subscription or exchange. The Library also has about 500 pamphlets, offprints of dissertations and monographs, and a large collection of maps, photographic prints, and color slides.

In addition, ILCA runs a computerized information storage and retrieval system to enable fast access to the literature available. Computer searches may be conducted on the in-house database, which specializes in non-conventional literature, and on international databases, such as CAB, AGRIS, AGRICOLA, etc., which provide access to world literature.

Another specialized service is Selective Dissemination of Information (SDI), which is offered to staff members and African researchers free of charge. Use of the Library is usually free to universities and research organizations. Inquiries should be sent to the Head, Documentation Center, ILCA, P.O. Box 5689, Addis Ababa.

Information Exchange

An information exchange service is available to disseminate information to about 300 scientists and administrators engaged in research, education, and development in Africa. Any questions pertaining to livestock products can be answered in English and French. ILCA has formal connections with FAU/AGRIS and IEMVT/GERDAT.

Publications

ILCA produces two main series of scientific publications: Research Reports, which in 1982 replaced the two technical series of monographs, and systems studies dealing with all aspects of an animal production system; and the ILCA

Bulletin, which discusses, for the benefit of a wider audience, economic and technical aspects of livestock production in tropical Africa. The two other series are: ILCA Newsletter, whose main purpose is selective dissemination of topical scientific information within African research networks, and Working Documents, which report work in progress on a wide range of subjects. Among the new publications which appeared in 1982 were also ILCA's Annual Report and a series of short brochures describing ILCA's programs and other activities. Lastly, three conference reports and six country catalogues of non-conventional literature on livestock production were produced in 1982.

ILCA is in the process of evolving a comprehensive mailing list to ensure a wide distribution of its newsletters, bulletins, annual reports, and country catalogues. Conference reports, research reports, and other occasional major publications are advertised in the Newsletter, and mailed on request. Inquiries should be addressed to the Head of Publications, ILCA.

Research

The research within ILCA is directed from a systems approach so that from an understanding of the total production system, research and government priorities are identified. Capabilities for such priority research are then available within the field stations.

ILCA has so far chosen to concentrate its resources on ruminant livestock and on a restricted number of existing livestock production systems with a view to identifying interventions that have maximum impact in increasing sustainable livestock productivity while involving minimum input or disruption and with maximum regional coverage. ILCA is concerned with bridging the traditional gulf between research and application and showing how research resources can be most effectively mobilized. Most of ILCA's research is carried out at the field stations listed above. In its Central Research Units based at Headquarters, ILCA is carrying out component research on key parameters. Inquiries should be sent to the Director of Research.

Training

Heavy emphasis is placed on training in ILCA, and a strong commitment of resources is made to two principal activities:

- o group training carried out through seminars, conferences, and workshops, generally of short-term nature catering to the needs of planners, decision makers, administrators, and senior scientists; and
- o the training of individuals who work alongside ILCA scientists in the research programs.

Annual training courses in systems research and in more specific topics of direct relevance to ILCA's areas of expertise and the need of livestock development in tropical Africa are offered. Increased numbers of scholarships and of opportunities for individual scientists to work within the ILCA program are planned, with a target of accommodating 30 scientists in one year. No degrees are awarded.

ILCA is an international agricultural center with a particular regional responsibility to tropical Africa. Trainees are drawn almost exclusively from the countries of that region.

Consulting Services

Requests for assistance and cooperation from national institutions and governments are considered individually.

Conferences

Policy conferences related to ILCA programs and occasional symposia of more general scientific interest are held at ILCA headquarters for research scientists and development planners. Available facilities include accommodations.

Additional Information

Information and training activities are expected to attract an increasing share of ILCA's program budget over the next 15 years. It is ILCA's aim to show the relevance of a systems approach and to ensure that those most influential in present and future research and development are provided with the information and skills needed to increase their effectiveness.

INTERNATIONAL POTATO CENTER (CIP)
Centro Internacional de la Papa

Principal Officer
Richard L. Sawyer, Director General

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366920

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Telex Code
25672 PE

Cable Code
CIPAPA

Branch Offices or Field Stations

In Peru: La Molina, Huancayo, and San Ramon. CIP also has regional programs with headquarters in Colombia, India, Kenya, Pakistan, the Philippines, Rwanda, Turkey, and Tunisia.

Relationships with Governments and Other Development Organizations

CIP is an autonomous international scientific institution established through an agreement with the Government of Peru. An international board of trustees is the ultimate authority for activities of CIP. CIP is part of the CGIAR network. CIP is an international organization, with headquarters in Lima, Peru, and regional research centers in Bogota, Colombia; Izmir, Turkey; Los Banos, the Philippines; Nairobi, Kenya; and New Delhi, India. CIP is sponsored by World Bank, FAO, and UNDP.

Objectives

To carry out research to develop improved technology to increase potato production in developing countries. All aspects of potato research, technology transfer, and training appropriate to developing country conditions are carried out.

History

In 1966, through an AID grant, the Peruvian Ministry of Agriculture initiated a Potato Commodity Program with financial and technical assistance from North Carolina State University (NCSU) in the United States, and in 1970, AID provided funding for a two-year period to establish CIP. In January 1971, an agreement was signed between NCSU and the Government of Peru permitting the establishment of CIP in Peru. In 1972, CIP became the fifth international agriculture center to join the CGIAR network. The first funding as an international agriculture center was received in mid-1972.

Personnel

In 1981: 29 senior staff, 47 scientific and supervisory, 56 clerical, 250 other staff.

Library

The Library contains 4,000 books and 2,800 reprints on agriculture, agricultural economics, biology, plant physiology, pathology related to the potato. Special services include photocopying, bibliographies. The services are free, except for photocopies. Users include CIP staff; CIP regional representatives; national agronomists, students, professors, etc.; international agronomists and scientists; and other libraries. Inquiries should be sent to CIP Library.

Publications

CIP distributes 2,000 English copies and 1,000 Spanish copies of the CIP Circular free each month through national agricultural ministries.

Research

All research information and derived technology is available, particularly to developing countries. Major laboratory facilities are located at CIP headquarters in Lima. Field sites in Peru are located at La Molina (240 m), Huancayo (3,300 m), San Ramon (800 m), and Yurimaguas (180 m) which provide a spectrum of environments. There are also field sites at regional centers.

Training

All levels of training in English, Spanish, and French, from two-day courses to Ph.D. training at selected institutions, are offered. Selected students from developing countries are eligible.

Other Services

Data bank for germ plasm management; processing of research data; audiovisual equipment for training instruction.

Conferences

Conferences are held routinely on major areas of research interest. Occasionally Peruvian research organizations use CIP's conference facilities.

Funding

Tuition is provided for students from developing countries, many of whom do their thesis research at CIP.

INTERNATIONAL RICE RESEARCH INSTITUTE (IRRI)

Principal Officer

M.S. Swaminathan, Director General

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(EASTERN) 63786 RICE PN

Address

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Los Banos, Laguna

Philippines

Cable Code

RICEFOUND Manila

Mailing Address

IRRI

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Manila, Philippines

Relationships with Governments and Other Development Organizations

IRRI is one of 13 nonprofit international research and training centers supported by the Consultative Group for International Agricultural Research (CGIAR). The CGIAR is sponsored by the Food and Agriculture Organization (FAO) of the United Nations, the International Bank for Reconstruction and Development (IBRD) of the World Bank, and the UN Development Program (UNDP). The CGIAR consists of 50 donor countries, international and regional organizations, and private foundations.

IRRI receives support, through the CGIAR, from a number of donors including: the Asian Development Bank; the European Economic Community; the Ford Foundation; the International Fund for Economic Development; the OPEC Special Fund; the Rockefeller Foundation; and the United Nations Development Program; as well as the international aid agencies of the following Governments: Australia, Belgium, Brazil, Canada, Denmark, the Federal Republic of Germany, India, Japan, Mexico, Netherlands, New Zealand, Philippines, Spain, Sweden, Switzerland, United Kingdom, and the United States.

In addition to its collaboration with donor countries, IRRI has formal cooperative arrangements to encourage exchanges with institutions and scientists in Bangladesh, Burma, Cuba, Egypt, France, India, Indonesia, Malaysia, Pakistan, People's Republic of China, the Philippines, South Korea, Sri Lanka, Thailand, and the Republic of Vietnam.

IRRI has cooperative research activities with several international agricultural research institutions; regional centers; and national, state, and private institutions, including;

- o Centro Internacional de Agricultura Tropical (CIAT);
- o International Center for Insect Physiology and Ecology (ICIPE);
- o International Fertilizer Development Center (IFDC);
- o International Food Policy Research Institute (IFPRI);
- o International Institute of Tropical Agriculture (IITA);

- o West Africa Rice Development Association (WARDA);
- o Boyce Thompson Institute in the United States;
- o Center for Overseas Pest Research (COPR) in the United Kingdom;
- o Office de la Recherche Scientifique et Technique Outre-Mer (ORSTROM) in France;
- o Tropical Agriculture Research Center (TARC) in Japan;
- o Tropical Products Institute (TPI) in the United Kingdom.

Objectives

The International Rice Research Institute (IRRI) has as its broad objectives: the enhancement of the world's capacity to meet goals of increased output and increased efficiency in the production of rice and associated crops in developing countries; and the improvement of the well-being of those who produce and utilize rice.

The IRRI Charter lists any and/or all of the following as the Institute's objectives:

- o to conduct research on the rice plant, on all phases of rice production, management, distribution, and use with a view of attaining nutritive and economic advantage or benefit for the people of Asia and other major rice-growing areas of the world through improvement in quality and quantity of rice;
- o to publish and disseminate research findings and recommendations of the Institute;
- o to distribute improved plant materials to national, regional, and international research centers where they might be of significant value or use in breeding or improvement programs;
- o to develop and educate promising young scientists from Asia and other major rice-growing areas of the world along lines connected with or relating to rice production, distribution, and utilization, through resident and joint training programs under the guidance of well-trained and distinguished scientists;
- o to establish, maintain, and operate an information center and library;
- o to establish, maintain, and operate a rice genetics resources laboratory which will make available to scientists and institutions all over the world a global collection of rice germ plasm; and
- o to organize or hold periodic conferences, forums, and seminars, whether international, regional, national, or otherwise for the purpose of discussing current problems and for developing research

strategies for elevating and stabilizing rice yields under different environments.

History

IRRI was established in 1960 by the Ford and Rockefeller Foundations in cooperation with the Government of the Philippines. It was so successful that it stimulated the development of a worldwide network of international agricultural research centers based largely on the IRRI pattern. From 1971, the Institute has been supported financially by the Consultative Group for International Agricultural Research (CGIAR).

Personnel

IRRI employs over 2,000 professional staff whose areas of expertise include: agricultural economics, agricultural engineering, agronomy, chemistry, entomology, experimental farming, irrigation and water management, information management, multiple cropping, phytotron, plant breeding, plant pathology, plant physiology, rice production, soil chemistry, soil microbiology, and statistics.

Physical Facilities

IRRI has extensive research facilities, including laboratories, dormitories, classrooms, conference rooms, field stations and experimental farms, greenhouses, audiovisual facilities, and a library. IRRI staff have access to the facilities of the University of the Philippines at Los Banos.

Library

The Library contains 65,000 volumes and receives 2,625 journal titles. It publishes annually the International Bibliography of Rice Research, and prepares special bibliographies on topics of interest to rice research workers and agricultural scientists in rice producing regions. The Library and Documentation Center offers world-wide service. Inquiries should be sent to Lina Manalo-Vergara, Librarian, at the mailing address above.

Information Exchange

The Communication and Publications Department distributes scientific publications and educational and training materials to a worldwide audience of rice researchers, extension specialists, and policy makers. Ninety percent of the publications go to addresses in developing countries; 80 percent of the addresses are in Asia. Inquiries should be addressed to the Communication and Publications Department, IRRI, at the address above.

Seed Exchange

IRRI annually supplies rice researchers with hundreds of thousands of rice seed samples from its 70,000-accession germ plasm center, breeding program, and the International Rice Testing Program. The large volumes of seeds provided by both IRRI and the national centers enable rice scientists to share the germ plasm generated by numerous agencies and workers across nations and institutions. It has led to accelerated testing and use of rice germ plasm.

Publications

IRRI publishes the IRRI Reporter, a quarterly newsletter which reports on the activities and achievements of IRRI. It is published in English, with a circulation of 11,000. Inquiries should be directed to the Office of Information Services, at the address above.

The International Rice Research Newsletter is a bimonthly, illustrated report on rice research and rice-based cropping systems. Published in English, it is sent to 8,000 readers free of charge. Inquiries should be addressed to the Office of Information Services, IRRI, at the address above.

IRRI publishes IRRI Research Papers as they are completed, Annual Reports, and annual Research Highlights. Inquiries should be addressed to Division A, Office of Information Services, IRRI, at the address above.

Data Banks

IRRI maintains computerized data banks on germ plasms, cross-breeding and testing records, and data from the International Rice Testing Program (IRTP). The Institute will provide information from the data banks at a slight cost on request. The cross-breeding data bank has resulted in a two-volume publication, Parentage of IRRI Crosses. Inquiries should be addressed to the Statistics Department, IRRI, at the address above.

Research

IRRI conducts research in areas of rice production and improvement, farming systems and practices, at its facilities in Los Banos and through a series of networks in rice-growing countries:

- o Asian Cropping Systems Network (ACSN);
- o International Rice Testing Program (IRTP);
- o International Network on Soil Fertility and Fertilizer Evaluation for Rice (INSFFER);
- o International Farm Machinery Network (IFMN).

Training

Training at IRRI is either research oriented, production-extension oriented, or supportive of international research networks. IRRI has so far trained about 3,000 rice scientists from all over the world.

Degree fellows are enrolled at the University of the Philippines at Los Banos in either M.S. or Ph.D. programs; degree scholars are enrolled in the University in Masters' degree programs; in addition, there are non-degree fellows and scholars enrolled in the program.

IRRI gives a six month rice production training course and several two-week rice production courses, as well as short formal courses on mechanization

consequences (two months), irrigation and water management (one month), and agricultural engineering (two weeks).

Inquiries about training, costs, and requirements should be addressed to Mano D. Pathak, Ph.D., Director, Research and Training Coordination, IRRI, at the address above.

INTERNATIONAL STATISTICAL INSTITUTE (ISI)

Project: World Fertility Survey (WFS)

Project Director
Mr. H. Gille

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World Fertility Survey
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AID Project Officer
R. Cornelius
Demography Division
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
932-0547

AID Grant Number
AID-CSD-3606

Objectives

The primary objective of the WFS program is to provide each participating country with scientific information that will enable it to describe and interpret the fertility of its population. There are two additional objectives. One of these is to increase developing countries' capabilities for undertaking fertility and other demographic research; the other is to give researchers everywhere the opportunity to make international comparisons of standardized data on fertility levels, family size ideals, and on knowledge and practices of fertility regulation.

The objectives are met through the conduct of surveys and subsequent analysis of the data so collected. The surveys are carried out in and by the countries participating in the program; the role of the WFS headquarters organization is to provide methodological technical assistance, through the provision of standardized manuals and through such active participation in the planning and conduct of a survey (including data processing) as the country needs.

The WFS headquarters organization also provides similar assistance in the subsequent stages of data evaluation and analysis and plays a coordinating role in dissemination of the data to users, including maintenance of a central data archive. On-the-job training of developing countries' personnel is an important element in all the activity.

The main funding agencies are the UN Fund for Population Activities and AID, with a substantial contribution from the UK Overseas Development Administration. Working arrangements and disbursement of funds are under formal agreements (contracts) with ISI and with the countries and individuals concerned, as appropriate, and are subject to the rules and regulations of the relevant organization. Close cooperative arrangements are also maintained in particular with the International Union for the Scientific Study of Population, the UN Population Division, and the UN Statistical Office.

History

The World Fertility Survey was set up in 1972, as a specific response to the announcement of 1974 as World Population Year and the United Nations' call for world action in population matters. The first 1-1/2 years were spent in publicity, initial recruitment of countries, and preparation of standardized survey procedural material, in particular the Core Questionnaire. The first country survey, in Fiji, went into the field in February 1974, and others followed. As of the end of 1982, 42 developing countries were participating in the program. Of these, 12 are in Africa, 11 in Asia and the Pacific, four in the Caribbean, one in Europe, nine in Latin America, and five in the Middle East. Eight countries are at the data processing/first report stage, and the remainder are at the further analysis stage. Over 500 country-specific analysis studies are known to be underway or have been completed. In addition, many cross-national comparative studies are undertaken using WFS data.

Although WFS is principally oriented to developing countries, 20 developed countries are also participating, but without external support.

Personnel

The professional staff at the London headquarters comprises 29 demographers, data processors, economists, statisticians, sociologists, and administrators, backed by a support staff of 20.

Physical Facilities

WFS headquarters includes two conference rooms and a Library.

Library

The Library, for internal use only, serves as the repository of all WFS written material and publications for reference and distribution. It also holds limited stocks of outside periodicals, journals, and books.

Information Exchange

There is no formal information exchange system as such. However, subject to the remarks made under "Publications" and "Data Banks" below, information and publications relating to the WFS program are generally freely available. In return, WFS receives information and publications from a number of different sources.

The major computerized information systems, such as POPLINE and CELADE's DOCPAL, contain complete information on WFS reports and publications.

Inquiries can be addressed to Chief, Information Section, at the London headquarters address given above.

Publications

All publications issued under the WFS program are available free of charge, save that in respect of First Country Reports there is a mailing/handling charge of U.S. \$10 for one report and U.S. \$2 for each further report forming part of the same order; a similar charge is made for bulk supplies of other publications. In addition, there is a charge of US \$25.00 for the Record of Proceedings of the UFS 1980 Conference. Requests for publications should be sent to: Publications Office, International Statistical Institute, 428 Prinses Beatrixlaan, P.O. Box 950, 2270 AZ Voorburg, Netherlands.

Periodical publications are:

- o Annual Report;
- o WFS Diary, a newsletter issued at irregular intervals announcing important events and latest progress.

These periodical publications are distributed free of charge to a mailing list of 2,500 which includes UN and other international and national institutions in the population/statistical field, government organizations, interested individuals, and press agencies and newspapers.

Data Bank

WFS is the general custodian of data collected under the program. The data are, however, the property of the individual country concerned and their release is subject to the conditions stipulated by each country. The conditions vary from country to country; generally, they relate to data in the form of tapes or unpublished tabulations. Every user is required to sign an agreement with respect to each country's data accessed for each project.

A charge of U.S. \$30 is made for each program tape and of U.S. \$60 for each dataset. Charges are also made for any individual tabulations provided, but whenever possible it is suggested that requesters obtain a copy of the data tape and produce the tabulation(s) at their own institutions.

Requests for data should be sent to the Chief, Data Archives Section at the London headquarters address.

Research

The role of the WFS organization lies to a large extent in stimulating and facilitating the research of others using the data collected under the program, through such means as wide dissemination of information, holding of national meetings, publication of technical bulletins and illustrative analyses, provision of data in response to requests (subject to conditions stipulated by countries), etc. WFS's own direct research contributions appear through the illustrative analyses, data evaluation reports deriving from evaluation workshops for developing countries, cross-national summary studies, methodological assessment of experience, and miscellaneous papers on topics of interest and importance.

Within the above:

- o data collected under the program are intended for use by policy-makers in determining and monitoring policies on population and related matters, and all efforts are made to guide research into channels relevant to this aim;
- o the results of methodological assessment of experience are intended to be "ready for application;"
- o the organization assists, where it can, in research activities, in the light of available resources.

Any bona fide researcher who wishes to discuss research with WFS should contact the WFS Deputy Director for Data Analysis and Assessment at the London headquarters address.

Training

WFS does not run training courses as such. However, training forms an integral element of the operation of the survey program, through:

- o a demonstration effort, providing participating countries with direct experience of good survey and statistical practice;
- o publication of model manuals and technical guides;
- o training in computer software for survey data processing; and
- o organization of workshops in which survey staff from different participating countries work together under WFS supervision to evaluate or analyze data from their national fertility surveys.

Consulting Services

In general, "consultancy" describes much of the technical assistance afforded by the WFS organization to participating countries; its nature and terms depend on the general and particular requirements of these countries and of the funding sources. In addition, WFS staff attend meetings of other organizations in an "expert" capacity; who pays depends on the circumstances.

Conferences

Meetings, conferences, and seminars are held by WFS to meet a variety of purposes. Attendance is by invitation; terms are specific to each meeting.

Funding

The ISI administers funds provided from elsewhere for budgeted country surveys or WFS headquarters purposes. Country participation in the program is at the initiative of the country, assisted by ISI/WFS personnel. In addition, ISI may be in a position to recommend grants for analysis purposes relevant to one or more participating country; proposals can be sent to the Deputy Director for Data Analysis and Assessment at the London headquarters address.

Requirements and Criteria

Potential users of WFS services are likely to be asking for data. WFS policy is to encourage maximum use of data for scientific analysis, but it is necessary at the same time to respect the wishes of the countries from which the data come; each country designs safeguards against possible misuse. Research proposals therefore need to be adequately presented and argued, and it is often helpful to associate the relevant country or countries in the drawing up of proposals, with a view to securing the necessary country concurrence. A summary of conditions for release of WFS data may be found in Chapter 6.5, pages 46-48 of the WFS Annual Report for 1982.

INVESTIGATION CENTER IN HUMAN AND SOCIAL SCIENCES IN HAITI (CRESHS)
Centre de Recherches en Sciences Humanes et Sociale

Principal Officer
Dr. Jean-Baptiste Romain, Director

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23790

Address
CRESHS
Bourdon, 2eme Ruelle Herard No. 7
Port-au-Prince, Haiti

Relationships with Governments and Other Development Organizations

CRESHS is an organization of the Academy of Human and Social Sciences in Haiti which has been of recognized public utility. The Center collaborates with individuals, and national or international organizations with a scientific research objective.

Objectives

The Center plans to conduct research in the field of human and social sciences including: ethnology, pre-Columbian archeology, anthropology, sociology, economics, linguistics, and the psychology of diffusion of these sciences. It plans to help students who are often lost when they have to write theses for their M.A. or doctorates; it wants to become an active unity in the project implementation of theoretical and practical government research.

History

The foundation of this Center is based on the idea of a necessary correlation between the overall development of a country and its scientific level; this correlation has been accepted now and we tend to classify civilizations accordingly: developed, developing, or archaic civilization.

Personnel

The ten professional staff members of the Center combine expertise in many development fields, including sociology, anthropology, linguistics, statistics, economics, rural sociology, Caribbean studies, and African research.

Library

The Center's 300 volume library is concentrated in anthropology, sociology, linguistics, economics, and statistics.

Publications

CRESHS collaborates in the publication, twice annually, of Report of the Faculty of Ethnology. This technical publication, in French, is circulated to 750 university members, at a cost of \$16 annually.

Research

Research is done in the areas of family planning, education, migration, community development, and Haitian culture.

MANAGEMENT AND PRODUCTIVITY DEVELOPMENT CENTER (MPDC)

Principal Officer
Adel Al Jodeh, Ph. D.,
Director General
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715013, 714745, 714944,
712472

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Center
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Telex Code
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TATWIDIM DAMASCUS

Objectives

- o To rationalize and upgrade existing public sector management programs in order to avoid duplication within the framework of management and productivity development procedures and hence to improve the quality and relevance of existing means.
- o To run ongoing management seminars, workshops, and training courses and programs within the industrial and business enterprises of the public sectors and in specific areas for executives and staff occupying senior and intermediate positions of national agencies and others coming from neighboring countries.
- o To provide an objective basis for and to assist in succession planning within the public sector through consultancy and management services.
- o To establish and maintain links with internal, regional, and international management training and development institutions and organizations, on a cooperative basis.
- o To achieve cost reduction and improve the quality of products produced by the enterprises of the public sector.
- o To accelerate the acquisition of knowledge and skills by using up-to-date management techniques.
- o To improve the performance and achievements of management staff in order to realize the economic plan established by the High Commission of Planning.
- o To meet the specific development needs of personnel of the public sector.

History

To achieve the above objectives, the Center was established in 1966 as a joint project between the Government of the Syrian Arab Republic, the UNDP, and the ILO (as an executing agency). It is an independent institution which has its own governing board presided over by the Minister of Industry and administered through a secretariat headed by the Director General; it represents a variety of interests including business and industrial organizations.

Personnel

The Director General is assisted by a full time staff of 65 people:

- o full-time professionals with Ph.D., M.Sc., or B.Sc. degrees, some of them cooperating with inter-Arab agencies; others cooperating with international agencies, as UN expert, i.e., for ILO (Geneva) and UNIDO (Vienna);
- o secretarial and active administrative support staff;
- o distinguished panel of outside lecturers coming from internal institutions and from regional and international agencies.

Professional staff have expertise in program development, project planning and management, information services, and evaluation. These skills are supplemented by those of five long-term experts and other short-term consultants with advanced expertise.

Physical Facilities

The Center has modern conference and discussion rooms equipped with projectors, films, and related audiovisual equipment. There are administrative units and a modest library where a stock of about 1,100 carefully selected publications on the appropriate technology of management and industrial engineering techniques are available; a good number of scientific periodicals and publications, journals, and magazines are received regularly. The staff and other officials can make full use of them.

Training

The Center comprises the following divisions: Personnel, Industrial Engineering, Incentives, Operations and Management, Marketing, Planning, Evaluation, Financial, Documentation, and System Analysis. Therefore, all training is geared to cover specific aspects of management and programs are mainly of two types:

- o ongoing or special programs for personnel coming from industrial and business organizations; these could be in the form of training courses, workshops, seminars, meetings, and conferences; and
- o in-plant programs designed to meet the needs and problems of particular industries or agencies.

The Center has run more than 600 training courses or programs, the duration of which ranged from one to twelve weeks. All programs are of non-residential type and are free of charge and on a full-time basis; therefore, trainees are expected to withdraw from their normal activities and devote their full time to the program and implementation.

Training programs are conducted mainly in Arabic, but if need arises, simultaneous translation in both English and French and to many other languages and vice-versa is available.

Publications

The Center issues a quarterly, Modern Management; it also publishes other periodicals and leaflets, the aims of which are:

- o to help top and line managers to be aware of and, hence, understand the increasingly complex economic, social, political, and technological issues affecting the success of their enterprises and organizations; and
- o to keep senior executives current with new developments in the theory and practice of general management, and to foster new thinking, research, and the exchange of experiences between academic and policy makers on a national, regional, and international basis.

Funding

The Center is fully financed through the government's budget, but after the technical assistance of the UNDP was over in 1972, the authority asked for additional assistance, which started in late 1978 and expired in December 1981.

MULTIPLE CROPPING PROJECT (MCP)

Principal Officer
Dr. Dumrong Tiyawalee, Director

Telephone Number
221275

Contact Officer
Dr. Benjavan Rerkasem

Address
Multiple Cropping Project
Chiang Mai University
Chiang Mai, Thailand

Objectives

The Project seeks to make technical, educational, and informational contributions toward the overall development of agriculture in Northern Thailand and to develop methods of agricultural research for small farmers.

History

In 1968, the Royal Thai Government approved the establishment of the Multiple Cropping Project at Chiang Mai University. Research commenced in 1969 with a budget from the Royal Thai Government plus financial assistance from the Ford Foundation.

Personnel

The Project has a core group of a ten-member, interdisciplinary team, composed of three agronomists, three agricultural economists, two anthropologists, a political scientist, and a soil scientist, who analyze total agricultural systems at different levels, such as the village or valley.

For disciplinary research the Project draws support from the faculties in various departments of the Faculty of Agriculture: Agronomy, Horticulture, Soil Science, Entomology, Pathology, Agricultural Economics, Extension (total number 120).

Physical Facilities

The Project maintains a field station with a complete meteorological station, essential laboratory facilities for routine soil and plant analyses, sufficient microbiological laboratory facilities, a microcomputer, Library, classrooms, and conference rooms with visual aids.

Library

The 1,000 volume Library concentrates on agriculture and related areas of the natural and social sciences.

Information Exchange

The Project shares information through regional linkages and workshnops, in the form of an informal association of Southeast Asian Resource Ecosystems Institutions; Centre for Natural Resource Management and Environmental Studies, Institute Pertanian, Bogor, Indonesia; Programme on Environmental Science and Management and Upland Hydroecology Program, University of the Philippines at Los Banos, the Philippines; Cropping Systems Project, Khon Kaen University, Thailand; as well as the Multiple Cropping Project.

Training

The Multiple Cropping Project undertakes training in Agricultural Systems and Multiple Cropping for the Thai Ministry of Agriculture and the Bangladesh Agriculture Research Institute, the latter supported by AID.

Consulting Services

The interdisciplinary team is available for short-term consultant services.

NATIONAL CENTER OF AGRICULTURAL STUDIES (CNEA)
Centre National d'Etudes Agricoles

Principal Officer
A. Slama, Director General

Telephone Numbers
282-603, 282-609, 285-561

Address
CNEA
3, Rue de Libye No. 3
B.P. 1040
Tunis, Tunisia

Cable Code
CENTAGRI TUNIS

Relationships with Governments and Other Development Organizations

The National Center of Agricultural Studies is a public organization, with an interest in industrial and commercial aspects, and is placed under the Tunisian Department of Agriculture.

Objectives

As an office of consulting engineers, CNEA can intervene in the field of agricultural development through group activities in the following overall areas:

- o basic sectoral studies;
- o integrated rural development projects;
- o implementation programs;
- o hydro-agricultural organization;
- o economics studies; and
- o training.

History

CNEA was founded in 1974 by the Tunisian Government to focus on the industrial and commercial aspects of agricultural development.

Personnel

CNEA has a permanent team of 40: engineers (in various agricultural fields), economists, sociologists, and skilled consultants.

Physical Facilities

CNEA has:

- o a center for specialized documentation, including a library and maps;
- o a center for calculation and data processing on computers; and
- o a workshop for editing.

Library

CNEA's Library contains 2,500 volumes and 70 titles of magazines concerned with economics in agriculture, agronomy, and hydraulics.

Training

Training, when conceived with a vision for research and development leading to a state-of-the-art technical and economical analysis, is one of the most effective tools as far as development is concerned. CNEA is experienced in organizing seminars and workshops based on theoretical training (lectures) and practical training (case studies) and on the dialogue between the different users of development techniques and economy. Training is done on the site, when participants are asked to take part directly in the implementation of studies, under supervision.

NATIONAL ENGINEERING SCHOOL OF TUNISIA (ENIT)

Contact Officer
Radhouane Nouicer

Telephone Number
262 533

Address
ENIT
University Campus
B.P. 37 Le Belvedere
Tunis, Tunisia

Telex Code
I2051

Cable Code
ENGECO

Relationships with Governments and Other Development Organizations

- o Under the patronage of the Ministry of Higher Education.
- o Frequent relationships with industry to identify students' projects and adapt curriculum.
- o Conventions with foreign schools and organizations.

Objectives

Training of engineers and skilled technicians at different levels in the fields of: engineering, electricity, industry, mechanics, hydraulics, construction, topography, and biomedicine.

History

The school began accepting students in 1969, with 250 enrolled. There are now 1,047 graduates on the job market.

Personnel

Teachers: 250, 100 of them part-time.
Technical instructors or workers: 80.
Administrative employees: 35.

Physical Facilities

Calculus center, administration offices, lodgings, library, workshops, classrooms, laboratories, office for studies and development.

Library

The Library contains 1,800 books on the technical and human sciences. Inquiries should be sent to the Secretary General at the address above.

Research

Research is conducted in new construction materials, energy sources, computer microprocessors, and metallurgy.

NATIONAL INSTITUTE OF FORESTRY RESEARCH (INRF)
Institut National de Recherche Forestieres

Principal Officer
H. Hamza, Director

Telephone Numbers
230 076, 230 420, or 230 039

Address
INRF
Route de la Soukra
Ariana, Tunisia

Mailing Address
INRF
Boite Postale No. 2
Ariana, Tunisia

Objectives

The Institute conducts research and experiments relevant to the fields of forestry sciences, conservation of water and soil, and natural vegetation in order to:

- o encourage growth and improve the productions of forest, silviculture, alfaculture;
- o widen the choice of forestry species, reforestation, and installation techniques; the choice of silvicultures and alfacultures;
- o restatement of protective methods against insects, diseases, and forest fires;
- o study and improve water and soil conservation techniques; and
- o publish reports and results of research and studies previously mentioned.

Personnel

The Institute staff consists of 14 researchers and engineers, 25 technical staff members, and 101 other workers.

Physical Facilities

The Institute's main building contains a meeting room, editing office, and Library. In addition, the Institute maintains five research laboratories, an experimental workshop, a workshop for car repairs, and a garage.

Library

The Library, open to all researchers, students, and scientists, contains 5,000 volumes on forestry and the biological sciences.

Information Exchange

The Institution exchanges public records of INRF, Information Bulletin, Research Note, and Technical Note, in Arabic and French with an English summary with international research institutions.

Publications

Information Bulletin and Research Note are published in French for 500 engineers and forestry technicians. Both publications will deal with forestry techniques and will be available on exchange, or free.

Research

Research, concentrated on the Mediterranean, North African environment, is conducted in the following fields:

- o silviculture ecology;
- o pedology;
- o genetics: choice of species and reforestation techniques;
- o silviculture: installation and biometry;
- o technology and utilization of forestry products;
- o water and soil conservation techniques;
- o wind screens and rural cultivations.

Training

Training is organized each year for skilled forestry technicians. There is no fee, but trainees are responsible for their own expenses.

Consulting Services

Short- and long-term studies can be designed on demand for program implementers and advisors.

NATIONAL INSTITUTE OF PUBLIC ADMINISTRATION (INAP)
Instituto Nacional de Administracion Publica
(Formerly: National Institute for Development [INAD])

Principal Officer

Lic. Roderico Segura Trujillo,
Manager

Telephone Numbers

61713,66339,62547

Contact Officer

Dr. Victor Galvez B.
Director of Training

Mailing Address

INAP
P.O. Box 2753
Guatemala, Guatemala

Address

INAP
6a Av. 13-11, Zona 9
Guatemala, Guatemala

Relationships with Governments and Other Development Organizations

INAP is a decentralized, semi-autonomous agency under the auspices of the Presidency of the Republic. It maintains relations with ICAP of Costa Rica, ILPES, CLAD, ASIP, INAP of Mexico, UNDP, and OAS.

Objectives

- o To promote administrative development.
- o To provide technical cooperation and assistance.
- o To prepare human resources for the government.
- o To conduct research on public administration.

History

INAP replaced INAD which was created in 1964 as a technical assistance agency. INAP was created to promote administrative development. It is a decentralized and semi-autonomous agency responsible for research and training of the human resources of the public sector of Guatemala.

Personnel

Technicians in administrative development, experts in formation and training of human resources, technicians in administration and coordination of programs of permanent education, teachers, researchers, and support personnel of middle and operational levels.

Physical Facilities

A Library, seven classrooms, a unit for reproduction of material, a unit of audiovisual aids, and a center of documentation and information.

Library

The Library contains 10,000 volumes on public administration, political science, local government, etc. The following areas have been reinforced from the beginning of 1983: sociology, mathematics, statistics, accounting, and administrative law. Its services also include photocopying and inter-library loans. Inquiries should be addressed to Library, INAP, at the address above.

Information Exchange

Public Administration Documentation Center of Guatemala has been organized and operating. It will provide information in Spanish, which can be ordered through INAP at the above mentioned address.

Publications

A monthly information bulletin is published in Spanish containing information about the advances on administrative matters as well as reports about the activities on INAP.

Research

Research is conducted in the fields of administrative development, public policy, human resources, and public enterprises. Research results are published in the monthly bulletin, and in specific research reports.

Training

INAP offers: one graduate program for Master in Public Administration, five specialized courses of higher education level, and 59 other courses, among them 20 for technical level and 27 for secretaries. The participants come from the public sector, the training is free, and certificates of attendance and diplomas are offered.

Consulting Services

The Department of Advisory Services on Administration provides technical assistance and advisory services about public administration.

NATIONAL INSTITUTE OF RURAL DEVELOPMENT (NIRD)
(An Organization of the Ministry of Rural Development, Government of India)

Principal and Contact Officer
Shri S.R. Ramamurthi, IAS

Telephone Number
48001

Address
National Institute of Rural Development
Rajendranagar
Hyderabad -- 500 030
India

Cable Code
GRAVIK HYDERABAD

Relationships with Governments and Other Development Organizations

The Institute serves as the national center for the Centre for Integrated Rural Development for Asia and the Pacific (CIRDAP), Bangladesh. Research, training, and consultancy services of the Institute are available to different departments of both central and state governments, public-sector undertakings; international agencies such as the FAO, ILO, UNDP, UNICEF, and CIRDAP; and voluntary agencies which have concern for rural development.

Objectives

The Institute endeavors to examine different facets of rural development, paying particular attention to the implementation of programs and strategies in the context of the national socioeconomic development process. The broad areas of concentration are:

- o improvement of social and economic well-being of rural communities, particularly the disadvantaged and women;
- o assistance in institution-building for rural development, including program implementation, financial management, and development systems;
- o formulating plans for more employment and higher incomes for rural people; project appraisal, implementation, monitoring and evaluation of development projects at the local level;
- o promoting human resource development, training, voluntary action, and social institutions;
- o assisting transmittal of technology appropriate to rural development;
- o disseminating through publications rural development statistics, information, and knowledge;
- o examining the issues relating to evolution of an egalitarian, agro-industrial society;
- o examining aspects of environment, conservation, and recycling of waste in rural areas; and,
- o assisting policy formulation and choice of options in rural development.

Within each area, not only specific research studies are developed but also training programs, seminars, and workshops which focus on specific topics. These are generally short-term, in no case exceeding four weeks.

The research studies are action-oriented and are formulated in a pragmatic way so that they not only constitute a vital input for the various training programs but also are useful to policymakers and administrators insofar as they strengthen the information base for the decisionmaking process. This symbiotic relationship between research studies and the training programs has made it possible for the Institute to make its services action-oriented. At present, the Institute concentrates on being a servicing agency to the central and state governments, and on implementation problems.

History

After the community development program was launched in 1952, it was felt that the senior functionaries needed to be oriented to the development programs and to the processes and methods of their implementation. Originally started as two institutions, the Central Institute of Study and Research in Community Development and the Trainers' Training Institute, which merged into the National Institute of Community Development in 1962, the Institute was moved to Hyderabad in 1964. It was made an autonomous registered society in November 1965. In September 1977, it was renamed as "National Institute of Rural Development." The Institute is fully funded by the Ministry of Rural Development, Government of India.

Personnel

The Director-General is in overall charge. The program activity of the Institute is handled by faculties in economics, extension and transfer of technology, human resource development, financial management, information, integrated area planning, library and documentation, political science and public administration, psychology, rural industries and employment, sociology, and statistics. Each faculty is headed by a director who is assisted by a deputy and assistant directors, and a team of research associates. The number of professional personnel in faculties is 43, with a total strength of 211.

Physical Facilities

The Institute has a well-equipped Library, hostel, conference halls, auditorium, and classrooms. These are well furnished and also have audiovisual facilities. With the aid of the Government of India and international organizations, computer, reproduction and audiovisual aids are being augmented.

Library

The 60,000-volume Library covers the social sciences with emphasis on rural development literature, including documentation and bibliographies. Participants in courses, seminars and workshops; research scholars; faculty members; and government functionaries may use the library. Inquiries should be addressed to the Director of Library and Documentation Services, NIRD.

Information Exchange

A selective information exchange is available with international and national professional organizations offering similar services. Bibliographies, documentation bulletins, journals, and the published results of various studies are available in English.

Publications

NIRD publishes a bimonthly journal, Journal of Rural Development, and a bimonthly newsletter, NIRD Newsletter. The journal contains research-based articles on different aspects of rural development in India. The newsletter carries information on policy decisions of the Government of India and state governments on rural development, and also summaries of research studies and recommendations of seminars and conferences that are held from time to time at the Institute. Both are widely read by scholars, government officials, and others. The journal has a circulation of over 600 and the newsletter over 2,500. The subscription fee for the journal is \$20.00. The newsletter is supplied free of cost. Inquiries should be made to the Director of Information, NIRD.

Research

The general categories of research conducted by NIRD are extension and transfer of technology, human resource development and rural organizations, integrated area planning, Panchayati Raj and developmental administration, rural economics, rural industries and employment, rural sociology and psychological studies, rural statistics, and tribal development and cultural anthropology. Consultancy research projects are offered within the overall plan of activities.

Training

The training programs have become diversified to meet the specific needs of senior officers operating at district-level or above, in rural development administration. Non-officials and academicians also participate. Workshops run from three days to three weeks, with certificates of participation given. All are conducted in English. Foreign nationals can be admitted on request, which should be made through the Indian Embassies or Consulates to the Ministries of External Affairs and Rural Reconstruction, Government of India, New Delhi; with copies to the Director-General, NIRD. Hostel facilities are available.

Consulting Services

The Institute offers its consulting services to requesting organizations on short- or long-term basis; provides experts, educators, project designers, and advisors in the development field with special reference to rural development.

Conferences

The Institute organizes conferences and seminars on a periodic basis. Details may be obtained on request.

Requirements and Criteria

The Institute offers its training, research, and consulting services to national and state governments, foreign governments, and international agencies. Details of requirements on request.

NATIONAL LABORATORY OF STOCK-FARMING AND VETERINARY RESEARCH (LNERV)
Laboratoire National d'Elevage et de Recherche Veterinaires

Principal Officer
Dr. A. K. Diallo, Director

Telephone Numbers
21-12-75 and 21-51-46

Address
LNERV
Route du Front de Terre
Dakar, Hann, Senegal

Mailing Address
LNERV
B.P. 2057
Dakar, Senegal

Relationships with Governments and Other Development Organizations

LNERV is a national Senegalese organization, placed under the Senegalese Institute of Agricultural Research (ISRA), which itself is placed under the government Ministry for Scientific and Technical Research.

Objectives

The focus of the Laboratory is research in animal production, including agrohusbandry, nutrition, and zootechnology; animal pathology, including microbiology, virology, and parasitology; and documentation. Production of vaccines results from the research conducted by the Laboratory.

History

The National Laboratory was founded in 1953 by the Senegalese government.

Personnel

Laboratory staff include 22 researchers, 43 technicians, and 125 other staff.

Library

The Laboratory Library contains 15,000 books, reports, and periodicals.

Information Exchange

The Laboratory encourages the exchange of yearly reports, technical notes, and techniques. It provides, on demand, documents from its services, charging copying costs. Some of the staff researchers also publish their work in various magazines, independently. Inquiries should be addressed to the Chief of Documentation at the address above.

Research

Primary fields of research are in animal production, including agrohusbandry, nutrition, and zootechnology; animal pathology, including microbiology, virology, and parasitology; and documentation. Production of vaccines results from the research conducted by the Laboratory. Laboratory staff conduct analysis and diagnostics.

NATIONAL TECHNOLOGICAL INSTITUTE OF NICARAGUA (INTECNA)
Instituto Tecnico Nacional de Nicaragua

Principal Officer
Lic. Guillermo Martinez M.

Telephone Number
4075-4079

Address
INTECNA
P.O. Box 162
Granada, Nicaragua

Cable Code
INTECNA Granada, Nicaragua

Relationships with Governments and Other Development Organizations

Spain: Technical and financial aid.

Cuba: Technical assistance.

Various public and private agencies utilize the services of the Institute for the professional advancement of the teachers' and the students' practice.

Objectives

To provide skilled manpower to the industrial enterprises in six fields:

- o mechanics (lathe, mill, and maintenance);
- o auto mechanics (general mechanics and diesel engines);
- o electricity (installer, mounter, coil winder, refrigeration, and air conditioning);
- o electronics (industrial electronics, radio, television);
- o woodcraft (basic carpentry, construction, woodwork);
- o chemistry (industrial laboratory).

History

INTECNA was founded by an agreement between the Governments of Nicaragua and Spain on December 5, 1974. Mr. Jacinto Hermida, Ing., a member of the Spanish government, and Father Manuel Otano, S.J., played a very important role in the establishment and development of the Institute. The law that created the Institute was published by official registrar #194 of August 1974, and its regulations were published by official registrar #82 of April 1975. In the beginning, the Institute was autonomous. At the present time, it is under the supervision of the Ministry of Education as part of the revolutionary process of the country. It participates in the JGRN and the FSLN programs.

Personnel

The Institute's personnel include 18 academic instructors, 36 technical instructors, ten teacher assistants, two managers, and two phychologists.

Physical Facilities

Facilities include room and board for 320 students (women and men) in separate dormitories; fields and facilities for soccer, baseball, basketball, volleyball, and athletics; large workshops for mechanics, heat treatments, auto-mechanics, carpentry, refrigeration, and air conditioning; and laboratories for electronics, chemistry, metalography, and diesel engines.

Library

The Library contains 5,000 volumes on social and technical subjects.

Research

INTECNA develops occupational profiles and methodologies for professional technical education.

Training

INTECNA provides training in each of the workshops and laboratories. The costs depend on needs.

NATIONAL UNIVERSITY INSTITUTE OF TECHNOLOGY (NUIT)
Ecole Nationale Supieure Universitaire de Technologie (ENSUT en IUT)

Principal Officer
Souleymane Seck, Director

Telephone Number
23.00.17

Address
Ecole Nationale Supieure Universitaire
de Technologie
B.P. 5085
Dakar-Fann, Senegal

Telex Code
ENSUT 224

Relationships with Governments and Other Development Organizations

- o International Committee for Relief against Drought in the Sahel (CILSS), assistance in implementation of "Protection of Vegetation";
- o International Bureau of Data Processing (IBI), implementation of a section on computer analysis;
- o African Network of Scientific and Technological Institutions (RAIST), responsible for coordination in energy.

Currently 20 percent of the students come from outside Senegal; they are from Cape Verde, Chad, Central Africa, Mauritania, Niger, Togo, and Upper Volta.

Objectives

Training: skilled technicians (B.S. and 2 years experience), technologists and engineers (B.S. and 4 years experience) with skills in electricity, electronic and mechanical engineering, nutrition technology, applied biology, chemistry, topography, engineering, health service, meteorology.

Training of technical high school teachers for data processing, bookkeeping, marketing.

Research: in solar energy, wind energy, meteorology, nutrition technology.

Personnel

Ph.D. professors, seven; assistant professors, ten; teaching assistants, 15; certified professors, 25; engineers, 30.

Physical Facilities

Library, classrooms, rooms for industrial drawing, television studio (magneto-scope, internal circuit, telemascope), computer, language laboratories.

Library

The Library is scientific, technical, and for use by students and professors.

Research

Research is conducted in solar energy, wind energy, biomass, nutrition technology, and meteorology. Results are available to any organization recognized by the Senegalese government.

Training

Level of training:

Bachelor of Science plus two years:	skilled technicians
Bachelor of Science plus four years:	technologists, engineers

Language requirement: French.

Foreign students are sent by their governments or international organizations depending on availability of openings. Inquiries should be sent to the Director at the address above.

Consulting Services

Project experts, educators, and advisors are available for consultation.

Conferences

Conferences on scientific and technical topics can be organized on request. Conference rooms, auditorium, and access to a cafeteria are available. Further information is available from the Director.

NEW SOCIETY FOR STUDY OF DEVELOPMENT IN AFRICA (SONED Afrique)
Societe Nouvelle des Etudes de Developpement en Afrique

Principal Officer

Qumar Souleymane Thiaw, Director General

Telephone Numbers

22-18-51, 21-97-58, 21-96-57

Address

SONED Afrique
142 Rue de Bayeux
B.P. 2084
Dakar, Senegal

Telex Code

464 SONEDAK

Relationships with Governments and Other Development Organizations

SONED Afrique has a mixed ownership, with the Senegal Government holding 60 percent of the shares. The Society works in collaboration with foreign offices for the implementation of studies in Senegal or elsewhere in Africa, planning to have offices soon in all African countries. Close relationships are maintained with organizations requiring the studies done by the Society; they may be external funding sources or other governments.

Objectives

The Society conducts studies in the following fields:

- o agricultural and hydro-agricultural studies (agriculture, irrigation, fishing, stock-farming);
- o general studies and investigations (economical, sociological, etc.);
- o infrastructures and engineering (public works, buildings, hospitals, roads);
- o industry, energy, mining.

History

The Society was founded by the Senegalese government in 1974 with multiple fields of study to make possible the implementation of technical and economical studies for development and of special projects. Many studies have been implemented both nationally and internationally.

Personnel

SONED Afrique's staff consists of highly qualified professionals: agronomists, engineers, economists, a nutritionist, polytechnicians, an urbanist, sociologists; they are assisted by skilled technicians and form a young, enthusiastic, homogenous team.

Library

SONED Afrique's Library contains 1,500 documents about project studies and a variety of documents used by the staff.

Information Exchange

SONED Afrique has a well-organized documentation service. One can find all the studies done by the society; access to these documents can help experts in their professional research. An editing-circulation service is equipped with photocopy machines, a plan-drawing machine, and binding machines. The collection of studies done by the Society from its inception is available for exchange free with any other useful document.

Study results can be released only with the permission of the commissioning agency; some studies are confidential and can be consulted only with the permission of the Director General. The requester must give his identity and the objective of his research.

Publications

SONED Presentation Notes and References are published annually in French and distributed on an exchange basis with approximately 500 development specialists.

Research

SONED Afrique conducts research in many fields, especially:

- o agricultural and hydro-agricultural studies (agriculture, irrigation, fishing, stock-farming);
- o general studies and investigations (economical, sociological, etc.);
- o infrastructures and engineering (public works, buildings, hospitals, roads);
- o industry, energy, mining.

Study results can be sold only with the permission of the organization which commissioned the study.

Training

The Society offers the possibility of training for experts in the fields of implementation or studies of development projects. Short-term training is available. Inquiries should be sent to the Director General at the address above.

Consulting Services

All of SONED Afrique's activities center around project studies, requested by other organizations. Short- and long-term studies are conducted by staff agronomists, engineers, economists, civil engineers, rural engineers, polytechnicians, urbanists, and sociologists. In-office consultation of SONED Afrique documents is easier than study by mail. All requests for consultation should be addressed to the Director General at the address above.

NIGER BASIN AUTHORITY (NBA)
(Formerly: River Niger Commission)

Contact Officer
Executive Secretary

Telephone Numbers
72-31-01; 72-31-03

Address
Niger Basin Authority
P.O. Box 729
Niamey, Republic of Niger
West Africa

Telex Code
5232 NI

Cable Code
AUBANI

Relationships with Governments and Other Development Organizations

The Authority has signed cooperative agreements with the following donors: AID, FAC, UNDP, WMO, UNESCO, FAO, ECA, OPEN, CIDA, EEC/EDF, Federal Republic of Germany. It maintains working relationships with African organizations through exchange of information and documentation and exchange of experts. It is an intergovernmental organization whose members are: Benin, Cameroon, Chad, Guinea, Ivory Coast, Mali, Niger, Nigeria, and Upper Volta.

Objectives

To promote cooperation among member states and ensure an integrated development of the Niger Basin in all fields by developing its resources, particularly in the fields of energy, water resources, agriculture, animal husbandry, fishing and fisheries, forestry and forestry exploitation, transport, communication, and industry.

History

Created as a consultative institution in 1963, the River Niger Commission was transformed, in 1980, into the Niger Basin Authority, a development-oriented intergovernmental organization. Development activities are now being organized and will be carried out by a team of specialists including hydrologists, hydrogeologists, agronomists, soil scientists, economists, civil engineers, etc.

Physical Facilities

Headquarters facilities are in the planning stage. Provisional facilities include a Secretariat building and three annexes housing the technical departments of Documentation and Information; Energy and Water Resources; Agriculture, Fishery, and Animal Husbandry; Navigation and Transport; and the Inter-States Center for Hydrological Forecasting.

Library and Information Exchange

The Authority maintains a Library of approximately 10,000 volumes on water resources, agriculture, energy, animal husbandry, fisheries, forestry, transport, communications, and economy. It provides consultation, loans, reproduction and bibliography services. There is a charge for reproduction services. An index printed in English and French is sent twice yearly to

2,000 researchers, experts, students, etc. There is a charge of 3.000 CFA francs per issue. Inquiries should be directed to NBA Documentation Center.

Training

The NBA has not yet organized training services. Cadres are sent overseas for training.

NUTRITION INSTITUTE OF CENTRAL AMERICA AND PANAMA (INCAP)
Instituto de Nutricion de Centro America y Panama

Principal Officer

Dr. Luis Octavio Angel, Director

Telephone Number

43763-67

Address

INCAP
Carretera Roosevelt, Zona 11
Guatemala, Guatemala

Telex Code

5696-INCAP

Mailing Address

INCAP
P.O. Box 11-88
Guatemala, Guatemala

Relationships with Governments and Other Development Organizations

INCAP is a regional-specialized center under the administrative direction of the Pan American Health Organization. The member countries belonging to the Institute are Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama.

Objectives

The primary purposes of the Institute are to assist the Central American countries in developing their own technical capabilities and nutrition programs, as well as to assist in training the personnel needed for this purpose. INCAP works directly with the member countries in defining nutritional and food production problems, selecting appropriate actions to correct them, developing the human resources to carry out national programs, and supporting the evaluation of country programs. In meeting these objectives, the Institute works in three main areas: formation and development of human resources, technical assistance, and research.

History

The Nutrition Institute of Central America and Panama was created on September 16, 1949, through an agreement signed by representatives of the Governments of Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama; and of the Pan American Sanitary Bureau (PASB), which is a regional office of the World Health Organization for the Americas.

Since it was founded, INCAP has been involved in the study of the nutritional problems of the region, seeking means for solution, and assisting its member countries in the effective application of these solutions. Through its years of working experience, INCAP has been able to determine and establish the magnitude of the main nutritional problems existing in the area. It has investigated the factors contributing to a poor nutritional status.

Personnel

The professional staff of INCAP includes eight doctors with advanced degrees, seven nutritionists with master's degrees in nutrition education or food

service, one public health microbiologist, two statisticians, one sociologist, one social psychologist, one anthropologist, one analyst, two biochemists, and seven food technologists.

Physical Facilities

The Institute's physical facilities include a Library, a computer center, a graphic arts and printing unit, a metabolic ward, a pool for corporal density studies, a farm field station, experimental laboratories, an auditorium, classrooms, and a food processing plant.

Library

INCAP's Library has 23,000 books, 33,000 reprints, 20,000 slides, and 850 periodicals on the subjects of human nutrition, food technology, public health, animal nutrition, applied nutrition, food and nutrition planning, and food and nutrition education.

The Library will answer special inquiries from member countries and from others; a photocopy machine is available to those who use the Library. Non-INCAP personnel have access to the Library during the day. Inquiries should be sent to Sra. Lidia de Lopez, Encargada de Biblioteca, at the mailing address above.

Information Exchange

Presently, INCAP is in the process of implementing its "Scientific and Technical Dissemination Exchange Program in Food and Nutrition," which will include mailing of bibliographic listings in Spanish of articles reviewed and summarized for users that request specific abstracts. In addition, INCAP is part of the national network of information related to nonformal education coordinated by the Secretaria de Coordinacion de Junta Nacional de Educacion Extraescolar.

INCAP is a participant in the regional project to promote breast-feeding, including the establishment of a Regional Clearinghouse in Maternal-Infant Nutrition with emphasis on lactation. The real and potential users of the program are professionals and technicians working in programs of food and nutrition in the sectors of health, education, agriculture, and planning, among others; professional organizations dealing with food and nutrition; intermediate personnel working at the community level; faculties of universities; private voluntary organizations; and libraries and documentation centers. Inquiries may be sent to Licda. Magda Fischer, Programa de Difusion y Intercambio de Informacion, Cientifico-Tecnica en Alimentacion y Nutricion, at the mailing address above.

Publications

INCAP publishes a quarterly bulletin in Spanish, INCAP Informa, which is distributed to 1,000 food and nutrition professionals, universities, libraries, community workers, PVOs, and others. The bulletin is free of charge. Inquiries should be sent to Licda. Magda Fisher at the mailing address above.

Research

The Institute carries out research and offers technical assistance in:

- o agriculture and food sciences--basic foods, sources of nutrients, food technology, and animal nutrition;
- o biology and human nutrition--nutritional status and its functional consequences, biological and environmental factors with nutritional repercussions, food practices and conditioning factors, and biological effects of nutritional interventions;
- o design and evaluation of interventions with nutritional impact--definition of indicators of nutritional status at an individual and population levels, as well as nutritional surveillance systems; evaluation of the process and biological, socioeconomic, and cultural impact; use of appropriate technology in nutrition and health.

INCAP's laboratories include those for biochemical and physiological studies for control of food and drugs, an animal experimental laboratory, a pilot plant, and a metabolic ward. There is a vegetable dehydration plant in Cuatro Pinos, Santiago Sacatepequez, and an experimental farm in the highlands. Inquiries should be sent to the Director at the mailing address.

Training

INCAP offers formal undergraduate and graduate programs. The School of Nutrition offers a five-year program coordinated with the University of San Carlos of Guatemala resulting in a bachelor's degree prior to the publication and presentation of a thesis.

In addition, the Institute offers two programs resulting in a Magister Scientifiae title. To qualify for the two-year program in science and food technology, a candidate must have a title of agronomist, veterinary doctor, zootechnist, nutritionist, pharmaceutical chemist, chemical biologist, industrial chemist, chemical engineer, industrial engineer, or the equivalent of a B.S. degree. The student must be able to speak and write Spanish and have reading abilities in English. To be accepted into the one-year program in public health with emphasis on maternal-infant nutrition, the candidate must have a title of medical doctor or surgeon, dentist, nurse, or nutritionist. Reading ability in English is recommended.

The Institute also offers tutorial training in food science and technology; quality and control of foods; biology and biochemistry in nutrition; diagnosis of nutritional status; design, implementation, and evaluation of nutrition interventions; and studies of infection-nutrition and microbiological techniques. Prerequisite to participation in the tutorial programs is a basic knowledge or experience in the area. The length of each tutorial program varies.

There is also a postgraduate tutorial training program for highly qualified investigators from developing nations interested in carrying out research activities at the Institute.

Candidates for the training programs may request financial assistance from the Organizacion de Estados Americanos (OEA), the Pan American Health Organization (PAHO), or the Agency for International Development (AID) through the local AID mission.

All inquiries about INCAP's training programs should be sent to Division de Ensenanza at the mailing address above.

Consulting Services

Part of INCAP's professional staff provide consulting services or technical assistance to member countries according to requests from Ministries of Health. Special arrangements for consultancy outside the Central American Isthmus can be made through PAHO/INCAP. Inquiries may be sent to the Director.

Other Services

Through the use of a Hewlitt-Packard HP3000/Series 30 Computer, INCAP offers specialized programs, data bases, systems analysis and development. The Computer Center can provide data entry/verification services on site. Charges for services may vary with the project. For further information, write to Bruce Newman, Computer Center Chief, at the mailing address above.

POLYTECHNICAL UNIVERSITY OF NICARAGUA (UPOLI)
Universidad Polytechnica de Nicaragua

Principal Officer

Lic. Cesar Flores R., General Secretary

Telephone Number

44070

Address

UPOLI

P.O. Box 3595

Managua, Nicaragua

Relationships with Governments and Other Development Organizations

UPOLI is a member of the National Council on Higher Education (CNES), which is responsible for policy in higher education in accordance with the national directives. It is also a member of FUPAC and of the Union of Universities of Latin America (UDUAL).

Objectives

- o To provide higher education to trainers and educators of professional technicians, teachers, researchers, and other qualified personnel who are needed human resources in the country;
- o To promote the intellectual advancement of the students through a curriculum which incorporates subjects which allow for a broader knowledge of society;
- o To cooperate with public and private institutions in the development of the national educational programs;
- o To advise public and private institutions in matters related to banking, finances, marketing, transportation, insurance, and physical education; and
- o To cooperate with the national health system.

History

UPOLI is a private, nonprofit, non-sectarian institution of higher learning. Founded in 1967, it was transferred to the University in 1977 by Nicaraguan Law 608. It is incorporated. It is composed of five schools: Public Administration, Commerce, and Finances; Drawing and Design; Nursing; Technical Education; and Industrial Technology. Degrees are conferred in 12 careers: marketing, banking and finances, insurance, nursing, technical education, industrial arts and home economics, drawing, design, architectural drawing, construction supervision, public relations, social communication, electro-mechanics, and the administration of cattle industry. It offers Bachelor's degrees.

Personnel

President (Rector), Bachelor in Economics

General Secretary, Bachelor in Education and Mathematics

Academic Secretary, Technician in Marketing

The Directors and Coordinators of the different schools hold degrees in their respective specialities. There are 65 professors.

Physical Facilities

The University has a Library with capacity for 70 readers, 26 classrooms with capacity for 1,300 students, a conference room with capacity for 50 people, an auditorium for 300 persons, a laboratory for audiovisual aids (photography, developing, and recording), a laboratory for technical education, and an electromechanical laboratory.

Library

The Library of 2,000 volumes on marketing, finances, and education is available to students, professors, and to the community where UPOLI is located. Inquiries should be directed to Cesar Flores, at the address above.

Publications

Informational Bulletin is published bimonthly in Spanish for 1,000 readers.

Consulting Services

UPOLI has an agreement with the Nicaraguan Insurance Institute (INISER) for consulting and works in cooperation with the Ministries of Education, Transportation, and Agrarian Reform, among others.

REGIONAL CENTER IN TRAINING AND APPLICATION
OF AGROMETEOROLOGY AND OPERATIONAL HYDROLOGY
(AGRHYMET Center)

Address

AGRHYMET Center
Rive droite, face Universite
Niamey, Republic of Niger

Telephone Numbers

73.39.87, 73.31.43, 73.31.16

Telex Code

5232NI

Mailing Address

AGRHYMET Center
B.P. 11011
Niamey, Republic of Niger

Cable Code

AGRHYMET NIAMEY

Relationships with Governments and Other Development Organizations

The AGRHYMET Center is a specialized organization of the inter-governmental Committee for Relief against Drought in the Sahel. Member governments are Cape Verdi, Chad, the Gambia, Mali, Mauritania, Niger, Senegal, Upper Volta.

Objectives

- o Training of technicians and engineers in agrometeorology and hydrology.
- o Training of technicians for the maintenance of meteorological and hydrological instruments.
- o Data collection, analysis, processing, and synthesis at the regional level. These data are observed at different intervals in the national meteorological and hydrological networks.

History

The Center is the result of a resolution made in September 1973 by the ministers of member countries of CILSS at their first meeting, calling for the development of national meteorological and hydrological services and for the creation of a regional center for training and applying agrometeorology and operational hydrology. In 1974, the OMM and PNUD were asked to form an OMM/FAO mission. The Center was opened in 1975.

Personnel

The Center now employs 16 people in middle management (professors, instructors, computer programmers, administrators, directors), and 44 employees and supervisors. For 1986, employment is projected at 16 experts, 82 skilled technicians and supervisors, and 23 other employees.

Physical Facilities

The main educational building includes offices; printing facilities; telecommunications; classrooms; laboratories for hydrology, agronomy, soil science, meteorology, and electronics; Library; simultaneous translation facilities; and audiovisual equipment. Housing and recreational facilities for students are also available on the 70 hectare Center complex.

Library

The Library contains 2,500 volumes and specialized magazines on meteorology, agronomy, agrometeorology, hydrology, mathematics, and physics.

Information Exchange

Publications are exchanged, generally free of charge, in French with diverse African organizations. Agrometeorological and hydrological data are exchanged on a routine basis with the Sahel countries.

Publications

The internal publications of the Center are distributed to 100 to 200 specialized African organizations in French, containing information on courses and data results.

Research

While research is done on agrometeorology, tropical meteorology, and hydrology, the focus of the laboratories is on training. Some European university students and professors have begun research.

Training

Scholars with two college years in mathematics and physics or skilled technicians are trained as class II agrometeorologists or hydrologists in a two-year course. Scholars with bachelor degrees are trained for technicians in agrometeorology, operational hydrology, or instrumentation. Short-term training is offered in radiometry and minicomputer operation. Students from the Sahel have priority for admissions. The language of instruction is French.

Conferences

Conferences are given, generally free of charge, on diverse topics, such as meteorology, ecology, teledetection, etc. Participants generally are drawn from the Sahel countries or international organizations (OMM/FAU). Simultaneous translation is available.

REGIONAL REMOTE SENSING FACILITY (RRSF)

Principal Officer

Dr. Victor A.O. Odenyo, Director

Telephone Number

554031, Nairobi

Contact Officer

Dr. Allan Falconer, Program Manager

Cable Code

LANDSAT

Address

Regional Remote Sensing Facility
P.O. Box 18332
Nairobi, Kenya

Relationships with Governments and Other Development Organizations

The Regional Remote Sensing Facility is an AID-funded, semi-autonomous branch of the Regional Center for Services in Surveying, Mapping, and Remote Sensing (RCSSMRS). Upon termination of AID support, the Facility will become one of several divisions of the Mapping Center. The Mapping Center has full diplomatic status as an African Regional Organization. Both the Center and Facility provide training and technical assistance to member and nonmember countries. Nonmember countries are expected to pay for services received.

The Mapping Center is sponsored by the UN Economic Commission for Africa. It is financially supported by its member countries: Comoro, Kenya, Lesotho, Malawi, Somalia, Swaziland, Tanzania, Uganda, and Zambia.

Objective

The objective of the Remote Sensing Facility is to provide training and services in remote sensing and technology for resource analysis and mapping.

History

The idea of a regional mapping center was conceived during the first United Nations Cartographic Conference for Africa in 1963. Agreement to establish the Regional Mapping Center to be located in Nairobi was reached in 1975 by five founding member states. Recognizing that space technology and remote sensing had much to contribute to conventional mapping as well as resource assessment and mapping, AID decided to contribute a remote sensing division to the Mapping Center. This agreement was signed in March 1977. It called for AID to develop and start a Remote Sensing Facility while the Center provided physical accommodation and logistical support. The Center also agreed to gradually assume full financial responsibility for operating the Facility.

Personnel

Present facility staffing includes four U.S. remote sensing specialists, three African counterparts, three African technicians, and four African administrative and clerical staff. The expatriates and counterparts have professional backgrounds in cartography, geography, photographic science, range management, and other resource oriented specialties.

Physical Facilities

The combined facilities of the Mapping Center and Remote Sensing Facility include a Library, classroom, conference room, air photo and satellite reference file room, three remote sensing analysis rooms, three photo labs (including color), a calibration and maintenance shop for surveying and photogrammetry instruments, and approximately 15 offices. Remote sensing analysis equipment includes two color additive viewers, density slicer, zoom transfer scope, reflecting projector, parabolic mirror projector, and smaller items such as stereoscopes and light tables; an image analysis microcomputer will be available early in 1984. The photo labs have a full range of photo reproduction equipment including a 10 x 10 inch color enlarger. Reproduction facilities include a copy camera Chromalin proofer and litho printer. The Mapping Center has a full range of surveying equipment, including theodolites, EDM equipment, and doppler geodetic positioning equipment.

Library and Information Exchange

The Facility makes full use of the library facilities of the RCSSMKS, which contains 1,000 volumes dealing with the subjects of geodesy, cartography, resources, and other physical sciences. Inquiries may be addressed to Chief Librarian, RCSSMRS.

Information is made available on request to users of mapping and remote sensing technology.

Publications

The Facility publishes an illustrated, biannual newsletter, Resource Mapping in Africa, in English. (A French version is planned.) The current circulation of 1,500 consists of resource and mapping personnel, with the focus of the articles being technical and descriptive, resource oriented. Inquiries should be directed to the Director, Regional Remote Sensing Facility. There is no charge.

Other Services

The Facility provides satellite photo reproductions and analysis. Charges for equipment use are levied on a par with commercial organizations offering similar services. Substantial discounts or free services are offered to government organizations of the countries which support the Mapping Center. Inquiries may be made to Director, Regional Remote Sensing Facility.

Research

The Facility undertakes cartography and resource analysis, as well as photo reproduction and satellite image analysis.

Training

The Facility offers five or six specialized training courses of three weeks' duration annually. The courses are in English, and participants are expected to have a degree in physical or natural resource sciences plus several years of practical experience. Training focuses on the use of satellite imagery for

resource analysis in specialized areas of cartography, agriculture, hydrology, and geology. Training is free to government personnel of countries in the region. Address inquiries to Training Program Manager, Regional Remote Sensing Facility.

Consulting Services

Consulting services are available for training courses and resource development projects in the countries of the region.

Special Services

Facilities are available for training courses and seminars dealing with the general subject areas of environment and resource management. Contact Facility Director for further details.

Training and technical assistance are available for agencies of the governments of the region involved in any aspect of resource management.

Tuition and expenses are provided for qualified participants attending the training courses offered in Nairobi.

RURAL ELECTRIFICATION CORPORATION, LTD. (REC)

Principal Officer

Mr. M. Venkataraman, Chairman

Telephone Number

682601-09

Contact Officer

Mr. S. V. R. Rao, Chief, Consultancy

Telex Code

31/4405

Address

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New Delhi 110019, India

Cable Code

RECTRIC

Regional Offices

Bangalore, Bhubaneswar, Bombay, Calcutta, Chandigarh, Gauhati, Hyderabad, Jabalpur, Jaipur, Jammu, Lucknow, Madras, Patiala, Patna, Shillong, Simla, Trivendrum, Vedodara.

Relationships with Governments and Other Development Organizations

The REC is an organization of the Government of India.

Objectives

The main objects of the Corporation are:

- o to promote and finance rural electrification in the country;
- o to promote and finance rural electricity cooperatives in the country;

For the achievement of these objectives, REC's operations are guided by the directives given to it by the Government of India, which require it to:

- o establish sound policies and procedures for consideration, approval, and implementation of rural electrification schemes to be financed by it;
- o develop and apply criteria for establishing priorities as regards the choice of schemes on the basis of economic viability; and
- o adopt a project approach so that extension of electricity along with other investments results in increased agricultural production in the area.

History

REC was set up in July 1969, in pursuance of a recommendation made by the All India Rural Credit Review Committee set up by the Reserve Bank of India. The Committee, which made a comprehensive review of rural credit, came to the conclusion that a massive program of rural electrification was essential for further development of agriculture in the country. The Committee recommended that an autonomous organization be set up to provide financial assistance for

a large rural electrification program which should be project based, development-oriented, and financially viable. A Government of India undertaking, it functions under the general supervision of the Union Ministry of Energy.

REC has by February 1983 sanctioned over 6,190 schemes which envisage the following program:

- o electrification of 236,000 villages;
- o energization of 2.16 million pumpsets;
- o energization of 220,000 rural industries;
- o laying of 540,000 kms of HV lines;
- o laying of 735,000 kms of LV lines; and
- o installation of distribution transformers of 12.20 million KVA capacity.

REC recently set up an International Cooperation Cell within the organization to provide cooperation to other countries in setting up their projects.

Personnel

The personnel of the organization include electrical engineers who have expertise in implementation of the projects; a ground water specialist who provides expert opinion on the availability of ground water in the project areas; an economist who has the expertise to do survey, appraisal, monitoring, and evaluation of the projects; finance experts who give their opinion regarding the financial viability of the projects; and personnel managers who have expertise in supervising the project implementation staff.

Library

There are over 8,000 volumes in the REC Library covering engineering, economics, agriculture, rural development, electrification, energy, law, mathematics, census, history, common publications, art, literature, biographies, and philosophy.

Publications

The REC Bulletin is published monthly in English and Hindi and is sent free to about 4,000 engineers, economists, public relations officers, government organizations, and State Electricity Boards. Inquiries should be directed to the Senior Public Relations Officer.

Other Services

The REC maintains a data bank and has data processing capability.

Research

Research activities include techno-economic surveys, regional development plans, socioeconomic research, cost/benefit studies, impact studies, and tariff studies.

Research-oriented services are:

- o consumer response and consumer acceptability research, attitude research;
- o electricity demand forecast;
- o tariff (pricing) research;
- o rural electric cooperatives;
- o feasibility studies and project reports;
- o organization and system study;
- o ascertainment of the felt needs of rural electrification; and
- o rural surveys and village surveys for extension of electricity.

Training

Two-month courses for assistant engineers and junior engineers are given, leading to a Certificate of Training on the topics covered by the training. There is no charge for the training, and accommodations are provided in a 30-person hostel. Knowledge of English is required. Inquiries should be directed to the Chief Consultancy.

Consulting Services

An International Cooperation Cell has recently been set up. It provides consultancy services in the following fields:

- o project identification;
- o long range planning;
- o erection, installation, commissioning, operation, and maintenance of rural electrification schemes;
- o monitoring and evaluation of rural electrification and related developmental programs;
- o standardization and management of materials and construction practices related to rural electrification; and
- o training of all personnel involved in rural electrification.

RURAL TECHNOLOGY DEVELOPMENT TRUSTEES (RUTEDET)
(Formerly: Arusha Appropriate Technology Project [AATP])

Principal Officer
Steven Kitutu, Coordinator

Telephone Number
3075 Arusha

Address
RUTEDET
P.O. Box 1109
Arusha, Tanzania

Cable Code
ATARU

Relationships with Governments and Other Development Organizations

RUTEDET is a voluntary, nonprofit organization, incorporated in Tanzania, rendering technical and managerial services to development organizations in the country; these include quasi-government, church, and donor agencies.

Objectives

RUTEDET was started in 1983 after a Parliamentary Act (1982) which dissolved the Arusha Appropriate Technology Project. RUTEDET's purpose is to initiate a technical and managerial program focusing on improving the lives of the rural poor through development of self-reliant, self-sustaining technologies. Principal fields of activity include:

- o housing and shelter;
- o energy;
- o water supply and storage;
- o food production and processing; and
- o cottage industries development.

Personnel

The organization is managed on a cooperative basis by four professional and three supporting permanent staff. Additional help is sought through voluntary members.

Physical Facilities

The facilities include a resource library, a meeting room for audio and visual presentations, demonstration of various appropriate technology devices in operation, and technical advisory services.

Library

The RUTEDET Library contains 500 volumes on water and sanitation, energy and power, man and society, food production, and manufacturing services. It also is the source for technical advisory services. Anyone may use the Library at no charge by contacting the Coordinator at the address above.

Information Exchange

The Project offers exchange of technical and communications methodologies in English and Kiswahili. Usually free, the information is available to anyone on contacting the Coordinator at the address above. Slides and movies on the progress of RUTEDET Projects are also available, as are viewing facilities.

Publications

RUTEDET publishes annual and quarterly reports in English which are circulated to 200 students, policy makers, and development officials. The reports, a mixture of technical and nontechnical articles, are available free on request to the Coordinator at the address above.

Research

RUTEDET's research is done in wind, energy, solar energy, rural transportation, and technology transfer methodologies. There are four administrative districts within the Arusha Region (there are 20 regions in Tanzania) where RUTEDET has worked for several years gaining valuable field experience in rural development. This experience has been condensed in a text entitled A.T. as a Development Strategy. Anyone interested in this volume should contact the Coordinator at the address above. Field demonstrations and tours can also be arranged.

SMALL INDUSTRY EXTENSION TRAINING INSTITUTE (SIET)

Principal Officer
Mr. S.G. Raghu
Principal Director

Telephone Number
33544

Contact Officer
Dr. J.B. Subramanian
Director Documentation

Address
SIET Institute
Yousufguda, Hyderabad 500045
India

Relationships with Governments and Other Development Organizations

The Institute is a nonprofit, quasi-governmental organization which maintains close liaison with promotional agencies, government departments, financial agencies, banks, and leading international organizations.

Objectives

The Institute's objectives are to:

- o plan, provide, and organize training for persons engaged in small industry;
- o undertake, sponsor, or plan research and development of small industry;
- o collect, store, and disseminate information relevant to small industry; and
- o extend sponsored services to organizations involved in small industry and to entrepreneurs.

History

The Institute was set up in 1962 by the Government of India, primarily to train officers of the Small Industry Development Organization, Government of India, and the State Directorates of Industries in industrial extension. Over the years, SIET has grown into an institution of national and international importance, offering training, research, and consultancy for small industry and all agencies promoting small industries.

Personnel

The Institute functions through six major divisions: Applied Behavioral Sciences, Communications, Consultancy, Documentation, Industrial Development, and Industrial Management. Nearly 100 members of faculty, with professional experience in India and abroad, work in these divisions.

Library

A specialized Library with over 40,000 books and reports, 1,300 periodicals (Indian and other), reference volumes on science; technology; social, behavioral, and management sciences; economic development, is set up in a separate building. There are nominal charges; the Library is available for entrepreneurs, academicians, promotional agencies, consultants, industrialists; in fact, no restrictions are imposed. Inquiries should be sent to Director of Documentation, SENDOC, SIET Institute.

Information Exchange

There is a data bank for small industry, well equipped audiovisual, photocopying, closed circuit television facilities, and printing and microfilming facilities.

The Small Enterprises National Documentation Center (SENDOC) is the sectoral information center for small industries and appropriate technology.

Publications

There are several SIET publications. All are written in English for a range of readers, including entrepreneurs, academicians, consultants, and government officials. Their names, circulations, frequency of publication, and subscription charges are:

SENDOC Bulletin I. Industry and Technology; 350; monthly; \$20.00.

SENDOC Bulletin II. Economics and Technology; 300; monthly; \$20.00.

SENDOC Bulletin III. Management and Behavioral Sciences; 300; monthly; \$20.00.

Appropriate Technology Documentation Bulletin; 150; bimonthly; \$10.00.

SEDME; quarterly; \$8.00.

Inquiries on any of these publications should be sent to the Director of Documentation.

Research

Major areas of research are entrepreneurial development, small industry promotion techniques, industrial growth and dispersal, regional development, appropriate technology, and management. Collaborative research studies have been carried out with Stanford Research Institute (SRI), California; The Association of Development Research and Training Institute (ADIPA), Bangkok; The Overseas Development Institute (ODI), London. Research-oriented services include industrial potential surveys, market surveys, feasibility surveys, and analyses.

Training

The Institute conducts national and international training programs, workshops, and seminars for senior and middle-level professionals and officials.

Tailor-made programs to suit needs of client organizations can also be made available. The Institute offers nearly 70 residential and a small number of outstation courses every year, including seven international programs to participants from developing countries. Participants from 60 countries in Asia, Africa, Latin America, the Middle East, and the Pacific have attended these.

Consulting Services

Consultants are available for short- and long-term projects and programs.

Conferences

A number of conferences have been held over the years. The hostel can accommodate about 100 participants at a time. Boarding facilities are available. Inquiries should be sent to the Principal Director.

Funding

Fellowships for international programs are given by: Afro-Asian Rural Reconstruction Organisation (ARRO); International Technical and Economic Cooperation (ITEC); Special Commonwealth African Assistance Plan (SCAAP); United Nations Industrial Development Organisation (UNIDO); ILO Technical Cooperation Scheme of Colombo Plan; and the Government of India. Participants from member countries can contact these bodies through their governments.

SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER (SEAFDEC)

Principal Officer
Dr. Veravat Hongskul
Secretary-General

Telephone Number
426-6631/2, 462-7823/6,
or 234-0775

Address
SEAFDEC Liaison Office
Olympia Building, 4th Floor
956 Rama IV Road
Bangkok 10500, Thailand

Telex
87974 INTEL TH FOR SEAFDEC

Cable Code
SEAFDEC BANGKOK

Relationships with Governments and Other Development Organizations

The member Governments are Japan, Malaysia, the Philippines, Singapore, and Thailand. The Center undertakes cooperative joint ventures of research, training, extension, and dissemination of information with other regional and international organizations concerned with fisheries development in the region.

Objectives

The Center pursues the following objectives:

- o to develop the fishing industry in Southeast Asia, and to improve the food supply through rational use of the fisheries resources in the region;
- o to offer training courses and organize workshops and seminars in fishing gear technology and navigation, marine engineering and refrigeration, extension services, postharvest technology, and aquaculture;
- o to study improvements of gear and craft, to make surveys of fishing grounds, to publish statistical bulletins and the analysis of data, to examine problems related to the handling of fish at sea and quality control, and to undertake studies on the fisheries resources in the region;
- o to conduct research and development in postharvest technology and to transfer the relevant technology to countries in the region;
- o to promote, undertake, and coordinate research necessary for the development of the aquaculture industry in the region; and
- o to arrange for the exchange and dissemination of information related to fisheries including aquaculture.

History

SEAFDEC was founded in 1967 by the Ministerial Conference for the Economic Development of Southeast Asia. Its policymaking body is the Council of Directors, while the coordinating body is the Secretariat. Its recent activities have been carried on by its three departments: Training Department, P.O. Box 4, Phrapradaeng, Samutprakarn, Thailand; Marine Fisheries Research

Department, Changi Fisheries Complex, Changi Point, Singapore 1749, Republic of Singapore; and Aquaculture Department, P.O. Box 256, Iloilo City, Panay Island, the Philippines.

Physical Facilities

All three departments have extensive facilities.

Library

The combined resources of the libraries of the three departments contain approximately 20,000 volumes dealing with fisheries, postharvest technology, and aquaculture. There is no charge or restriction on the use of the libraries. All have photocopying facilities. Specific inquiries should be addressed to the SEAFDEC Secretariat Liaison Office, at the address above.

Information Exchange

SEAFDEC invites exchange of newsletters and publications. Its materials are published in English. Inquiries should be addressed to the SEAFDEC Secretariat Liaison Office cited above.

Publications

The SEAFDEC Newsletter is published quarterly in English. It is an illustrated newsletter with a circulation of 2,500, covering many fisheries subjects in a combination of both technical and non-technical articles. The Training Department has published approximately 100 texts in various series, and the Marine Fisheries Research Department has published nearly as many articles. The Aquaculture Department publishes its Aquaculture Abstracts series and Quarterly Research Report of the Aquaculture Department, among other publications. The Southeast Asia Fisheries Information Service (SAFIS), a project of the Secretariat, prints manuals for extension officers in the languages of the region.

Research and Training

SEAFDEC's research concentrates on fisheries, marine engineering, aquaculture, and postharvest technology. Publications and advice are provided on request.

The Training Department in Thailand offers both long-term (two years) and short-term (from two to eight weeks) courses. English is the usual language, but Thai may be used, especially for local fishermen. Fees vary, as does eligibility.

The Training Department employs 96 personnel and offers a two-year course to nominees of member countries. The emphasis is on practical training on board the Department's trawlers, M.V. Paknam and M.V. Plalung; on its purse-seine, M.V. Platoo; and on commercial fishing vessels operating in Thai waters. The curriculum covers subjects necessary for a skipper, master fisherman, or chief engineer. The trainees are taught about socioeconomic problems of small-scale fishermen, concepts of fishery cooperatives, the operation and maintenance of small engines for coastal fishing boats, improved methods of fish handling, and transportation. Special short-term courses are also organized for Thai

fishermen, university students of marine science and fisheries, trainees from Thai government agencies, including extension officers, and on-the-job training (ten months) is offered to junior researchers from the region.

The Marine Fisheries Research Department, established in 1968 in Singapore, originally conducted investigations on fisheries resources and research in fisheries oceanography and trained research personnel and technicians. Since 1976, however, its 60 personnel have incorporated research and training in fishery postharvest technology in its program of activities. Thus, the Department conducts annual short-term courses on postharvest technology. The main objective of its present program is the maximum utilization and minimum waste of available fish resources in the region, as well as handling, preservation, and quality of fish and fish products.

The Aquaculture Department, established in 1973 and principally located at Tigbauan near Iloilo, Panay Island, the Philippines, has built up its physical facilities and personnel to 700 individuals involved in research and training in both fresh and brackish water aquaculture. It has excellent library and research facilities for pond engineering and management, fish nutrition, and fish physiology and diseases. The Department offers long- and short-term courses to its trainees. It provides a one-year master's program in aquaculture in cooperation with the Network of Aquaculture Centers in Asia (NACA) as the Regional Lead Center in the Philippines (RLCP) which is based at the Department's main research station in Tigbauan.

Consulting Services

SEAFDEC experts often provide advice on request.

Special Services

At least once a year, SEAFDEC holds a conference on a subject relevant to the region (e.g., stock assessment, fishery information, fishery management, etc.). Inquiries should be sent to the Secretariat.

Requirements and Criteria

SEAFDEC provides research and training facilities to trainees (some of whom are awarded fellowships). It also collaborates with governments in Southeast Asia, as well as with national, regional, and international organizations, tailoring its programs to their needs. Member governments are given priority for the use of SEAFDEC facilities; however, other countries and organizations may use services on request.

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION (SEAMEO)
REGIONAL CENTER FOR EDUCATION IN SCIENCE AND MATHEMATICS (RECSAM)

Principal and Contact Officer
Mr. Poon Poh Kong, Center Director

Telephone Numbers
883266/267

Address
SEAMEO-RECSAM
Glugor, Penang
Malaysia

Cable Code
RECSAM Penang

Relationships with Governments and Other Development Organizations

RECSAM is one of the regional education centers of the Southeast Asian Ministers of Education Organization (SEAMEO). (See page 176.)

The Government of Malaysia and other donor governments, foundations, organizations, and individuals contribute toward the Center. Among the donors are: member Governments of SEAMEO; Governments of Australia, Federal Republic of Germany, France, Japan, Netherlands, New Zealand, the United Kingdom, the United States of America; UNESCO, the Lee Foundation, and the Canadian International Development Agency (CIDA).

RECSAM is an associated center of the Asian Program of Educational Innovation for Development (APEID) and has working relationships with other SEAMEO regional centers, science education centers, and curriculum development centers, and universities, professional societies, and schools of various countries.

Objectives

RECSAM was established in 1967 to help improve the teaching of science and mathematics in member countries of SEAMEO, in order to lay a firm foundation to meet the future scientific and technical manpower needs of Southeast Asian countries for national development. To meet this objective, the Center undertakes the following activities:

- o conducts training courses for key personnel from the region to upgrade their knowledge of, and skills in, innovative methods of teaching and evaluation in primary and secondary science and mathematics;
- o conducts research and development courses for key personnel from the region to upgrade their knowledge and skills in developing instructional materials and equipment and in conducting research in primary and secondary science and mathematics;
- o convenes seminars, workshops, and conferences, cooperatively with other agencies, institutions, and organizations within and outside the Southeast Asian region;
- o collects, organizes, and disseminates information about science and mathematics education;
- o publishes information about science and mathematics education in the form of modules, and through its newsletter and journal;

- o conducts research on science and mathematics education for the primary and secondary levels;
- o provides consultation and special services on request from SEAMEO member countries; and
- o conducts courses and research on the development of simple techniques for improvisation of apparatus and developing prototype design for low-cost production of apparatus and kits.

Personnel

RECSAM professional staff come from countries within and outside the Southeast Asian region. Those from outside the region have come from Australia, Canada, the Federal Republic of Germany, France, Japan, New Zealand, the United Kingdom, the United States of America, and other countries. Professional staff are specialists in any of the following subject areas: physics, mathematics, biology, environmental science, media and communication arts, photography and ETV, chemistry, general science, and apparatus development. In addition, short-term visiting consultants, from within and outside the region, assist in the training programs and research activities of RECSAM.

Library

The RECSAM Library holds no less than 15,400 books, 200 serials, and a comprehensive collection of kits, pamphlets, and audiovisual materials on science and mathematics education. The Library offers responses to reference inquiries, including literature searches, preparation of bibliographies, and interlibrary loans from RECSAM staff and participants and from others on request. There is no charge. Inquiries should be sent to the Librarian.

Information Exchange

An information exchange service is maintained on science and mathematics, primarily in English, but also available and welcome are materials in Bahasa Malaysia/Indonesia/Thai, Filipino, and Mandarin. There is no charge for exchange of other materials and with nonprofit institutions. The service is available to anybody or any institution or organization willing to contract an exchange agreement with RECSAM subject to its conditions and regulations. Inquiries should be made to the Librarian.

Publications

The RECSAM News is published in English each quarter. It reports on events and activities of the Center and prints articles on innovative ideas in science and mathematics education. It is illustrated with photographs, diagrams, and charts. Some 2,400 educators working with the ministries and departments of education of member countries, educational institutions, members of teachers' associations, and RECSAM alumni receive free copies. Inquiries should be sent to the Assistant Director of Information at the address above.

The Journal of Science and Mathematics Education in Southeast Asia, published semi-annually in English, is circulated among 400 professional educators. Articles on science and mathematics education contributed from within and

outside the Southeast Asian region are accompanied by photographs, diagrams, and charts. Subscription inquiries should be directed to the Business Manager, RECSAM Journal, at the address above.

Audiovisual Facilities

Subject to conditions and regulations, anyone interested may apply for use of RECSAM's well-equipped science and mathematics laboratories, up-to-date photography facilities, comprehensive collection of AVA, and well-equipped ETV studio. Permission for use of the facilities is at the discretion of the AVA officer and the Center Director. Reimbursement is negotiable. Inquiries should be addressed to the Center Director at the address above.

Research

Published literature on completed research projects:

- o The Southeast Asian Science and Mathematics Experiment (SEASAME);
- o The Science and Mathematics Concept Learning of Southeast Asian Children.

Research and development courses:

- o RSM-101: Research-Based Studies in Concept Learning for Primary Science and Mathematics;
- o DSM-101: Development of Innovative Teaching-Learning Modules in Primary Science and Mathematics;
- o DS-201: Development of Innovative Secondary Science Teaching Modules;
- o DM-202: Development of Innovative Secondary Mathematics Teaching Modules;
- o DSM-102: Integrated Approach to Primary Science and Mathematics Teaching;
- o DSM-203: Development of Secondary Science and Mathematics Equipment (design and prototype production).

Participation in research and development courses:

- o Qualified personnel from any SEAMEO country are accepted and awarded a scholarship upon nomination by their respective ministries.
- o Qualified personnel from non-SEAMEO countries are accepted on condition that they are sponsored and funded by regional or international organizations and agencies, or by their own governments.

Training

A total of 14 training courses are offered for the Center's third five-year program, July 1980-June 1985. These courses are aimed at upgrading knowledge and skills of key educators from the Southeast Asian region on:

- o the principles and practices of classroom testing and measurement in primary and secondary science and mathematics;
- o innovative techniques in organizing inservice courses for primary and secondary science and mathematics teachers;
- o innovative methods of teaching primary science and mathematics;
- o innovative approaches to secondary mathematics teaching;
- o innovative approaches to biology, chemistry, and physics teaching;
- o development of primary and secondary science and mathematics apparatus;
- o science laboratory management.

In addition to its regular courses, RECSAM conducts special courses for SEAMEO countries on request. This type of special service provided by RECSAM has been made use of by Indonesia.

Participants from SEAMEO countries are nominated by their respective ministries and are awarded SEAMEO scholarship grants equally distributed among member countries. The SEAMEO scholarship for RECSAM covers cost of tuition, food and accommodation, out-of-pocket allowances, books and supplies, medical and health plans, domestic and international travel (U.S. \$1,920 as of July 1983). The value of a non-SEAMEO scholarship, covering the costs for the items enumerated, not including local and international travel, would be U.S. \$1,650. The sponsoring donor or agency will be responsible for the provision of air travel direct to the awardees. The above mentioned fees will be subject to review from time to time.

General conditions governing the award of scholarships include:

- o Training and research scholarships are offered to nominated key personnel from member countries from any one of the following groups:
 - senior lecturers and lecturers of science and mathematics from teaching training colleges, colleges of education, and faculties of education;
 - supervisors and inspectors of science and mathematics;
 - senior science and mathematics teachers in schools;
 - administrators involved with science and mathematics education in Ministries of Education;
 - educational planning and research officers in science and mathematics curriculum development;
 - science and mathematics examination officers of examination boards.

- o The sponsoring member country shall pay the scholar's local salary, grant leave of absence for attending courses at the Center, and cover local travel expense within the country, to and from the capital city.
- o The sponsoring member country shall take out insurance policies to cover the scholars against accidents in the course of their travel or transit to the Center, from their homes and back, and throughout the duration of the scholarship.
- o Applicants must possess a good working knowledge of written and spoken English.

The courses run for 10 weeks within the following four terms of a year: first term, January to March; second term, April to June; third term, July to September; and fourth term, September to November.

All courses are conducted in English. Participants from Indonesia and Thailand are invited to come two weeks ahead of other participants to enable them to attend a two-week intensive course on written and spoken English.

There are 97 rooms of single or double occupancy in the RECSAM hostel. Meals are served in the dining hall.

A certificate is awarded at the end of the course. Participants from other countries are accepted on request, subject to availability of places, and must be funded by their own governments or other funding agencies. Inquiries should be sent to the Center Director at the address above.

Consulting Services

Short-term consultants from within and outside the SEAMEO region are invited to lecture or demonstrate to participants attending courses on specific subject areas in their field of specialization.

RECSAM staff may also be invited by other countries to participate in seminars, conferences, and workshops. Malaysia and Thailand have made use of this type of special service offered by RECSAM.

Conferences

For its third five-year plan, RECSAM has scheduled a number of conferences, seminars, and workshops. Inquiries should be sent to the Center Director at the address above.

Requirements and Criteria

Any qualified person, institution, or organization, may contact RECSAM for technical assistance. Individuals from SEAMEO countries must be nominated by their respective ministries. Individuals from non-SEAMEO countries must be sponsored by their own governments or other agencies. Related funding organizations will be negotiated for institutions.

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION (SEAMEO)
REGIONAL CENTER FOR EDUCATIONAL INNOVATION AND TECHNOLOGY (INNOTECH)

Principal and Contact Officer
Dr. Liceria Brillantes Soriano, Director

Telephone Number
98-43-09

Address
INNOTECH
Don Mariano Marcos Avenue
U.P. Diliman, Quezon City
Philippines

Cable Code
INNOTECH

Locations of Field Stations

Indonesia, Malaysia, Philippines, Singapore, and Thailand.

Relationships with Governments and Other Development Organizations

INNOTECH was established in 1970 as one of the regional education centers of the Southeast Asian Ministers of Education Organization (SEAMEO). (See page 176.)

Objectives

The overall objective of INNOTECH is to identify educational problems in the region and in the individual member countries and to seek solutions or assist in the solution of such problems.

The principal fields of activity which INNOTECH undertakes to achieve its basic purpose are programs and activities categorized under training, research, clearinghouse and information, and special programs and services.

Personnel

Twelve professional staff composed of the Director, Deputy Director, eight senior specialists, and one associate specialist.

Library

The INNOTECH Library contains 4,354 volumes, 1,724 accessioned pamphlets, 448 microfiches, cassette tapes, and periodicals on innovation and technology in all levels and aspects of education with emphasis on educational administration and management, educational planning, educational research, learning delivery systems, teacher education, and related areas. INNOTECH staff and training participants, professionals, and graduate students are free to use it. Reference, circulation, literature search, subject bibliographies, and acquisition lists are also obtainable.

Information Exchange

As a regional center, INNOTECH maintains information exchanges in English with SEAMEO and other regional centers, providing information on Center programs, projects, and activities at no charge. At present the Center maintains exchange of publications with various institutions. Address inquiries to INNOTECH.

Publications

The INNOTECH Newsletter is published bimonthly in English. Its articles are illustrated with photographs and charts. It is sent gratis to 2,000 educators, administrators, and decision makers.

Research

INNOTECH research is focused on basic education and teacher education.

The ongoing research projects are:

- o Project DELSILIFE (Acronym title: Development of Effective Learning Systems for the Improvement of Life; Full title: Development of a Coordinated Educational Intervention System for Improving the Quality of Life of the Rural Poor through Self-Reliance) which aims to develop effective learning systems for improving the quality of life of the rural poor through self-reliance;
- o Project NTR (Nontraditional Roles of Teachers) aims to help prepare and train teachers to handle efficiently innovative learning systems to improve the quality of education in the SEAMEO region; and
- o Test Development Program which aims to develop a battery of achievement tests and an item bank for assessing the outcomes of basic education, in the countries of Southeast Asia.

Completed projects:

- o Project IMPACT (Instructional Management by Parents, Community, and Teachers) in the Philippines and its equivalent, Proyek PAMONG (Pendidikan Anak Oleh Masyarakat Orangtua Dan Guru) in Indonesia were able to develop an innovative instructional management system for the mass delivery of primary (elementary) education which is both economical and effective.
- o Project CB-BLP's (Community-Based Basic Learning Package) primary objective was to provide out-of-school youths and adults relevant basic learnings in primary education in a relatively short time.
- o Project RIT's (Reduced Instructional Time) primary objective was to reduce educational cost by reducing teacher's interaction time without resulting in a lower level of students' accomplishment.

Clearinghouse and information activities help keep member countries informed on research, innovations, educational experimentation, and utilization of educational technology in progress within and outside the region.

Training

There are three three-month training programs, one six-month training program, and one short course, usually two weeks, that the Center undertakes every year. The participants are key educators in their respective countries. Aside from these three regular training courses, the Center accepts requests

from SEAMEO member and non-member countries and institutions with linkages to INNOTECH to conduct special courses for more specialized groups.

Tuition and other fees for the three-month training course on Educational Planning and Management, Innovation, and Technology amount to \$1,800 per participant. This includes tuition, health and insurance, books and supplies, and domestic travel. English proficiency is required. A certificate is awarded on completion of the course.

Tuition and other fees for the six-month training course on Applied Research and Educational Development Project Planning amount to \$3,245 per participant. This includes tuition, health and insurance, books and supplies, and domestic travel.

Short courses deal with topics of pressing urgency to educators in the South-east Asian region. Tuition and other fees amount to \$680 per participant. This includes tuition, health and insurance, and books and supplies.

Students from other countries may be admitted to all three courses provided their ministries of education make the necessary arrangements with INNOTECH and provided further that there are available places for them. All participants are accommodated at the INNOTECH dormitories. Inquiries should be addressed to INNOTECH.

Conferences

INNOTECH holds one regional seminar every year on vital topics chosen by the Center and approved by its Governing Board. These are SEAMEO-funded and attended by three participants from each SEAMEO member country. Additional participants and resource persons from non-member countries are invariably invited to attend with funding from other sources.

INNOTECH also holds other seminars and conferences that are project-connected, i.e., held in relation to a research and development project. Funding for these is part of the project funding and participants are usually those actually involved in the project.

Funding

INNOTECH is not a funding institution. It accepts contributions for the conduct of its programs.

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION (SEAMEO)
REGIONAL CENTER FOR TROPICAL BIOLOGY (BIOTROP)
(Formerly: Regional Center for Training, Research, and
Post-graduate Study in Tropical Biology)

Principal and Contact Officer

Prof. Dr. Ishemat Soerianegara

Telephone Numbers

23848, 25850, and 26851.

Code number of Bogor: 0251

Address

BIOTROP

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P.O. Box 17

Bogor, Indonesia

Telex Code

45585 BIOTROP 1A

Cable Code

BIOTROP, Bogor

Relationships with Governments and Other Development Organizations

BIOTROP is one of the Regional Centers of the Southeast Asian Ministries of Education Organization (SEAMEO). (See page 176.)

BIOTROP cooperates with the following organizations:

- National:
- o Bogor Agricultural University, Bogor
 - o University of Indonesia, Jakarta
 - o University of Padjadjaran, Bandung
 - o Institute of Technology Bandung, Bandung
 - o Ministry of Public Works, Jakarta
 - o National Agency for Logistic, Jakarta
 - o National Biological Institute, under the Indonesian Institute of Sciences, Bogor
 - o Ministry of Agriculture
 - o State Ministry of Development Supervision and Environment
- Regional:
- o Asian Pacific Weed Science Society (APWSS)
 - o International Rice Research Institute (IRRI), Philippines
 - o Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA), Los Banos, Philippines
- International:
- o Netherlands Universities Foundation for International Cooperation (NUFFIC)
 - o United Nations Educational, Scientific, and Cultural Organization (UNESCO)
 - o United Nations Environment Program (UNEP)
 - o Food and Agriculture Organization (FAO)
 - o Universite des Science et Technology du Languedoc (USTL), France
 - o Japan International Cooperation Agency (JICA)
 - o Weed Research Organization (WRO)
 - o Overseas Development Agency, UK (OAD)
 - o International Plant Protection Center (IPPC), U.S.A.
 - o Tropical Plant Institute (TPI)

Contributions in cash and kind have been received from the Governments of Australia, Canada, Denmark, France, Federal Republic of Germany, Japan, Netherlands, United Kingdom, United States, and the host country, Indonesia.

Objectives

BIOTROP was established in 1968 to contribute to the economic development of the Southeast Asian Region by identifying and solving critical biological problems the solution of which enhances regional development and helps solve these problems through appropriately designed research/training programs.

In particular, BIOTROP concentrates on research programs and developing the tools and principles of research in its defined program areas, and training professionals in the region in their use so as to stimulate further indepth biological research in member countries.

This procedure will, thus, produce the maximum multiplier effect from BIOTROP's programs.

Dissemination of findings and results of tropical biological research, methodology development and experimentation, is considered a critical aspect in helping BIOTROP attain its objectives.

Based on its objectives, BIOTROP programs cover:

- o tropical forest biology--comprising studies on forest ecology, biological aspects of silviculture, forest genetic resources, and forest ecosystems management;
- o tropical agricultural pest biology--comprising studies on weed biology and management, insect and vertebrate pest biology and management, and dynamics of pest systems; and
- o tropical aquatic biology--comprising studies on aquatic productivity and resource management, aquatic environmental pollution, fish diseases, and genetic improvement.

Personnel

Executive Staff: 3
Professional Staff: 47
Administrative Staff: 143

Library

The Library contains 8,400 volumes; 850 serials, 5,019 brochures on forest biology, pest biology, aquatic biology, and environmental sciences. Photocopy, interlibrary loan, reference, and current awareness services are provided.

There is no charge, except for photocopy services; U.S. \$0.20 per page, inclusive of postage. The Library is open to staff and public, but lends only to BIOTROP staff. Inquiries should be sent to the Clearing House Manager.

Information Exchange

The BIOTROP Clearing House of Information consists of a Library Section, Scientific Information Section (including documentation), and a Publications

Section. It provides general information on BIOTROP activities through newsletters and brochures, and scientific information on results of research through publications, and current awareness services through indexes and bibliographies. It cooperates with information centers in the Southeast Asian region, such as UNESCO, FAO, etc. Languages: English and Indonesian. No charge except for photocopies: U.S. \$0.20 per page, inclusive of postage. Anybody may use BIOTROP Clearing House facilities. Inquiries should be made to the Clearing House of Information Manager.

Publications

Name:

1. BIOTROP Newsletter (general information and progress report on BIOTROP activities). Published since 1969. Quarterly.
2. BIOTROP Bulletin (results of completed research). Published since 1970. Irregular.
3. BIOTROP Special Publication (Seminar/Workshop/Conference Proceedings). Irregular.
4. Annual Report. Annual.

Languages: English and Indonesian.

Illustrations: Black/white pictures, graphs, diagrams, maps.

General categories of readers: staff of universities, research institutes, governmental agencies, national/regional/international organizations, scientific societies, individual research workers, former training course/symposia/conference participants.

Types of articles: scientific and technical.

Current circulation: BIOTROP Newsletter, 1,600 copies; other publications, 200-250 copies.

Charge for subscription: BIOTROP Newsletter, U.S. \$9.00 per year. The price of other publications varies according to number of pages. All publications are available for exchange.

Other Services

Audiovisual: No charge, for official purposes only to staff and public/visitors (slide presentations on SEAMEO/BIOTROP and BIOTROP's activities, several films in relation to pest control). Maintained by Public Relations Section.

Inquiries should be sent to the Public Relations Officer.

Research

Tropical forest biology covers research on:

- o forest ecology;
- o biological aspects of silviculture;
- o forest genetic resources; and
- o forest ecosystem management.

Tropical agriculture pest biology covers research on:

- o weed biology and management;
- o insect and vertebrate pest biology and management;
- o pathogen and nematode biology and management; and
- o dynamics of pest systems.

Tropical aquatic biology covers research on:

- o productivity and resource management;
- o aquatic and environmental pollution; and
- o fish diseases and genetic improvement.

Basic research as well as problem solving research is done with more emphasis on the latter.

Research facilities include:

- o research and training laboratories equipped with necessary supplies and equipment, e.g., balances, spectrophotometers, gas analyzer, calorimeter, electrophoresis, atomic absorption, Hach water quality checker;
- o two greenhouses and two insectaria;
- o microbiology laboratory with photomax, binocular and monocular microscopes, incubator, and refrigerator;
- o nurseries;
- o pond and field plots of about one hectare; and
- o wet laboratory, tissue culture laboratory, water pollution laboratory, biological control and nematology laboratory, field mass rearing laboratory, small mammals laboratory, and a bird house.

Laboratories of private as well as governmental institutions working with BIOTROP are also available. There is a charge for laboratory use, depending on the need, and how much and how long the equipment/laboratory is used. These facilities are available to BIOTROP staff and researchers, trainees (short-term and long-term), and private or governmental agencies associated with BIOTROP. Inquiries should be sent to the Director.

Training

BIOTROP conducts six-week training courses and master of science degree study in the fields of tropical forest biology, tropical agricultural pest biology, and tropical aquatic biology. The medium of instruction of the courses is English. A statement assessing the English proficiency of the candidate is required from his/her principal or dean. BIOTROP has no interpreter services.

The participants should have at least a B.Sc. degree in biology or a related field. Each participant of the six-week training courses will be awarded a certificate of achievement upon successful completion of the training course.

BIOTROP offers a limited number of scholarships to participants from SEAMEO member countries. The candidate should apply for scholarships through his/her respective Minister of Education. Notification of acceptance will be sent to the candidate by cable.

Participants from non-SEAMEO member countries are eligible for training at their expense, if they meet with stated academic and language requirements.

The Master's degree program will be implemented commencing 1984/85 pending the approval of the Governing Board of BIOTROP.

Tuition and other fees for six-week training are as follows (all amounts in U.S. dollars):

Tuition	\$ 240
Food	\$ 198
Accommodation	\$ 144
Out of pocket allowance	\$ 90
Health plan & insurance	\$ 35
Book supplies	\$ 240
Domestic travel	\$ 101
International travel	\$ 741

For further information, contact the Training Officer.

Conferences

BIOTROP conducts various conferences and seminars. The topics of these conferences and seminars are related to the three professional programs. Most of the conferences are held in Bogor. The participants of the conferences are provided with accommodations in the BIOTROP compound, Bogor. The charge for food and accommodation is U.S. \$15 per day. These facilities can be used by either private or governmental institutions based on request. The inquiries could be sent to the Chief Administrative Officer.

Funding

BIOTROP's grants are offered only to the participants of BIOTROP's training courses. The BIOTROP's training participants are from the SEAMEO member countries (Indonesia, Kampuchea [Cambodia], Laos, Malaysia, Philippines, Singapore, and Thailand).

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION (SEAMEO)
REGIONAL LANGUAGE CENTER (RELC)

Contact Officer

Dr. Wee Joo Liat, Registrar

Telephone Number

7379044

Address

SEAMEO RELC Building
30 Orange Grove Road
Singapore 1025
Republic of Singapore

Cable Code

RELCENTRE SINGAPORE

Relationships with Governments and Other Development Organizations

RELC is a regional center of SEAMEO. (See page 176.) The Governments of Indonesia, Malaysia, the Philippines, Singapore, Thailand, and the three Indo-Chinese countries are members. Governments of Australia, France, and New Zealand are associate members. RELC works in close cooperation with other governments and development organizations.

Objectives

The general objective of RELC is to assist SEAMEO member countries to improve the teaching of English and other languages and, to that end, to conduct high quality training courses, including courses leading to postgraduate degrees; to undertake research and publications and other kindred activities related to the needs and problems of the region.

Specifically, the functions of RELC are as follows:

- o to conduct high quality training courses for administrators, teacher educators, supervisors, research designers, curriculum specialists, teachers, evaluators, and other high-level personnel in the planning and implementation of programs connected with the teaching of English and other languages;
- o to provide an advanced study program leading to postgraduate degrees;
- o to undertake and promote research and to disseminate the results of research relevant to the teaching, learning, and use of English and other languages for the benefit of member countries;
- o to assist in strengthening language teaching, planning, and development programs and facilities of member countries by providing consultancy and advisory services;
- o to act as a central agency for and, in appropriate cases, to arrange or assist financially, the exchange of language education personnel between member countries;
- o to provide professional and administrative support to scholars from within and outside the region.

History

RELC was founded in July 1968 by SEAMEO. From 1969 to 1976 RELC was known as the Regional English Language Center, since during that period it had as its fundamental aim the improvement of teaching English as a second or foreign language in the SEAMEO member countries. From 1977 it became known as the Regional Language Center but maintained the acronym RELC.

Since 1976, RELC has undertaken the integrated study of general language problems in order to strengthen national efforts to update the skills of senior personnel concerned with other languages in addition to English. It continues to offer high quality diploma and certificate courses and, in addition, conducts advanced training programs in association with a local university leading to postgraduate degrees. This program, with a built-in research component, is intended to help meet the changing needs of SEAMEO countries, particularly for the more advanced training of leadership personnel.

Physical Facilities

RELC's headquarters building includes an extensive Library, audiovisual facilities, language laboratory and studio, as well as classrooms, guest rooms, offices, conference rooms, exhibition hall, and two restaurants.

Library

The Library and Information Center holds 28,000 volumes and an extensive collection of microforms and non-book materials on language and linguistics, language education, and Southeast Asian languages. It has listening and viewing facilities and photocopying services. There is a charge for microfilm prints and photocopies. The facilities are available for RELC course members, staff, research scholars and fellows, staff of language-related departments in tertiary education institutions, and language teachers. Inquiries should be directed to the Librarian and Head of Information Center, at the address above.

Information Exchange

Information related to language education and research is exchanged with language centers, language departments of universities and other institutions, and researchers, through correspondence in the English language. A charge is made when publications and photocopies are supplied. Information is also made available to all Library and Information Center users. Inquiries should be addressed to the Librarian and Head of Information Center, at the address above.

Publications

The publication and dissemination of information on trends and developments in language education is an important aspect of the work of RELC. The RELC Journal: A Journal of Language Teaching and Research in Southeast Asia, issued twice a year, covers the development of language education and applied linguistics. A subscription is U.S. \$9 a year; single back issues are available for U.S. \$5.

Guidelines, a magazine for language teachers, is published twice a year as a practical guide for classroom teachers. A subscription is U.S. \$9 annually.

RELC also publishes the Monograph Series, the Anthology Series, occasional papers, and annual reports. Subscription information and a Publications Catalogue are available from the Publications Officer at the address above.

Research

RELC undertakes research and development:

- o to promote language research awareness and knowledge in the Southeast Asian region;
- o to continue to conduct institutional projects and projects in connection with training, on language and language teaching;
- o to maintain and update a record of both completed and ongoing language-related research in the region and of officially identified research priorities and to make this information available to potential researchers;
- o to identify new research and development projects which are in line with national and regional priorities and which could be conducted by RELC;
- o to initiate and encourage the application of relevant research findings to actual language planning and development programs; and
- o to provide administrative support to bona fide researchers from within and outside Southeast Asia.

The research and development activities of the Center are undertaken by professional staff, course members, and postgraduate students, persons not connected with RELC but whose research work is related to language and language teaching, and research fellows.

Training

Training is a major component of the RELC program. RELC offers a variety of courses of study on different levels: certificate, diploma, and postgraduate degree, in the fields of language training, communication skills, and applied linguistics. Information on admission, length of program, specific coursework, and cost can be obtained by writing to the Registrar, at the address above.

Consulting Services

RELC renders consultancy and special services in the way of specially mounted inservice courses, training attachments, and advisory and other services at RELC. RELC also makes available, whenever possible, its professional expertise to SEAMEO governments and institutions, subject to availability of staff and, in the cases of requests that involve travel, suitable funding arrangements, since RELC has no direct funds of its own for such services.

Conferences

The Annual Regional Seminar is usually held in April at the RELC headquarters. Specific topics are approved by the Board of Governors.

Funding

RELC awards scholarships, to be used at the Regional Language Center in Singapore, to scholars from member countries of SEAMEO to advance its general objectives.

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION (SEAMEO)
REGIONAL TROPICAL MEDICINE AND PUBLIC HEALTH PROJECT (TROPMED)

Principal and Contact Officer

Dr. Chamlong Harinasuta, Coordinator

Address

TROPMED Central Office
420/6 Rajvithi Road
Bangkok 10400, Thailand

Location of National Centers

The four TROPMED National Centers are located in SEAMEO countries as follows:

- o Faculty of Medicine, University of Indonesia, Jakarta, Indonesia;
- o Institute of Medical Research, Kuala Lumpur, Malaysia;
- o Institute of Public Health, University of the Philippines, Manila, Philippines;
- o Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand.

Relationships with Governments and Other Development Organizations

TROPMED is one of the regional education centers of the Southeast Asian Ministers of Education Organization (SEAMEO). (See page 176.)

TROPMED has working relationships with the SEAMEO regional education centers, all medical and scientific institutions in Thailand, ESCAP, the Mekong Coordinating Committee (MCC), WHO, FAO, and various medical foundations and agencies.

Objectives and Principal Fields of Activity

TROPMED is a regional project established in 1967 to promote cooperation in education, training, and research, in the fields of tropical medicine and public health for prevention, control, and eradication of tropical endemic and environmental diseases so as to improve the health and standard of living of the peoples of Southeast Asia. TROPMED:

- o trains specialists in tropical medicine and public health who would help meet priority manpower needs in tropical medicine and public health areas;
- o pools resources of the participating countries in a cooperative endeavor to promote and upgrade the research programs and capabilities of the TROPMED national centers;
- o organizes conferences, seminars, and instructional courses on tropical medicine and public health.

Personnel

TROPMED national centers are located in host government institutions which, with their own academic staff, contribute to the services output of the whole region-wide TROPMED project. The TROPMED Central Office in Bangkok, Thailand, headed by the Coordinator and his staff, performs administrative, technical, and coordination functions for the project. TROPMED operates its activities under the policy of the Governing Board; members are appointed by the respective governments and SEAMEO.

Library

Each TROPMED national center has library resources and facilities for its staff and trainees. The Bureau for TROPMED Information, established in the TROPMED national center in Thailand, serves as a central coordinative unit for museum and reference centers located in other TROPMED national centers. The national centers collect and catalogue specimens and materials in their area of specialization and serve as information centers for dissemination of requested material in Southeast Asia, as well as the rest of the world.

Publications

TROPMED publishes The Southeast Asian Journal of Tropical Medicine and Public Health each quarter. It prints technical biomedical, scientific articles written in English and has a circulation of 1,000 doctors, scientists, and research workers. It costs U.S. \$20 per year (4 issues). Inquiries should be sent to SEAMEO-TROPMED Project.

Research

Each TROPMED national center is performing research, especially in the subjects as assigned for regional specialization. Research in the Indonesia national center is concentrated on nutrition and food science; in Malaysia on applied parasitology and entomology; in the Philippines on public health rural medicine; and in Thailand on clinical tropical medicine and pediatrics. Financial support is sought from appropriate donors for the institutional type research projects.

Training

Under the SEAMEO-TROPMED program of training there are 11 courses, all conducted in English, at the four national centers:

- o Postgraduate Course for Diploma in Tropical Medicine and Hygiene (D.T.M. & H.), Bangkok--six months;
- o Postgraduate Course for Diploma in Applied Parasitology and Entomology (D.A.P. & E.), Kuala Lumpur--six months;
- o Postgraduate Course for Master of Public Health (M.P.H., Rural Health), Manila--12 months;
- o Postgraduate Course for Diploma in Applied Nutrition (D.A., Nutrition), Jakarta--6 months;

- o Postgraduate Course for Master of Occupational Health (M.Occ. Health), Manila--10 months;
- o Postgraduate Course for Diploma in Medical Microbiology (D. Med. Microb.), Kuala Lumpur--six months;
- o Postgraduate Course for Master of Public Health majoring in Urban Health (M.P.H. Urb. Health), Bangkok--10 months;
- o Postgraduate Course for Master of Science in Public Health (M.S. Pub. Hlth., majoring in Medical Microbiology, Medical Parasitology, or Public Health Nutrition), Manila--two years;
- o Postgraduate Course for Master of Science in Tropical Medicine (M.Sc. Trop. Med.), Bangkok--two years;
- o Postgraduate Course for Master of Science in Applied Nutrition (M.Sc. A. Nutr.), Jakarta--two years beyond D.A. Nutr. Course;
- o Postgraduate course for Master of Medical Science in Clinical Tropical Medicine (M.Sc. CTM), Bangkok--12 months.

Students are accepted from any country. However, write to TROPMED for information concerning the funding of students from non-SEAMEO countries.

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION (SEAMEO)
SECRETARIAT (SEAMES)

Principal Officer
Prof. Adul Wichiencharoen, Director

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392-0505

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Cable Code
SEAMES BANGKOK

History, Objectives, Relationships with Governments and Other Development Organizations

SEAMEO is an intergovernmental organization comprising seven member countries and three associate members. Program activities of the Organization are carried out primarily through SEAMEO's seven regional centers and projects hosted by member countries. The program activities are financed by the member countries, associate members, donor governments outside the region, and foundations/agencies.

SEAMEO originated at the first informal conference of six Southeast Asian Ministers of Education held in Bangkok on November 30, 1965. At that conference, the Ministers decided to jointly develop regional educational projects for mutual benefit of the member countries. The Charter of the Organization was signed by the Ministers of Education of Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand, and the Republic of Vietnam on February 7, 1968. Cambodia joined the Organization in 1970. In consequence of the termination of the existence of the Republic of Vietnam as a Sovereign State, the membership of SEAMEO has been reduced to seven countries. The Organization has three associate members: Australia, since 1974; France, since 1973; and New Zealand, since 1974.

The purpose of the Organization is to "promote cooperation among the Southeast Asian nations through education, science, and culture, in order to further respect for justice, for the rule of law, and for the human rights and fundamental freedoms which are the birthrights of the peoples of the world." Program activities of SEAMEO are carried out by its regional centers and projects as follows:

- o BIOTROP, Regional Center for Tropical Biology, Jalan Raya Tajur, Bogor, Indonesia, 1968;
- o INNOTECH, Regional Center for Educational Innovation and Technology, Diliman, Quezon City, Philippines, 1969;
- o RECSAM, Regional Center for Education in Science and Mathematics, Glugor, Penang, Malaysia, 1967;
- o RECL, Regional Language Center, 30 Orange Grove Road, Singapore 1025, Singapore, 1968;
- o SEARCA, Regional Center for Graduate Study and Research in Agriculture, Los Banos, Laguna, Philippines, 1967;

- o *SPAFA, SEAMEO Project in Archaeology and Fine Arts, c/o SEAMES, 1978;
- o **TROPMED, Regional Project for Tropical Medicine and Public Health, 420/6 Rajvithi Road, Bangkok, Thailand, 1967.

Each Center has its own specific projects, training programs, seminars, and conferences.

Formal relationship was established with UNESCO in early 1975. The relationship was further strengthened by the affiliation of RECSAM and INNOTECH as Associated Centers of the UNESCO Asian Programme for Educational Innovation for Development (APEID).

SEAMEO has also established close contact with ASEAN which has taken cognizance of the activities of SEAMEO, in which ASEAN member countries are principal participants. The possibilities of ASEAN funding of some of the SEAMEO activities to develop manpower of ASEAN member states are being explored.

In addition, SEAMEO has maintained cordial and often collaborative relationships with national and international organizations having programs relating to those of SEAMEO, as well as with governments and institutions interested in providing assistance to any organized effort aimed at manpower development, scientific research, and promotion of culture. Among the governments and organizations having linkages with SEAMEO are:

- o Asian-South Pacific Bureau of Adult Education (ASPBAE)
- o Canadian International Development Agency (CIDA)
- o CONCERN
- o Danish International Development Agency (DANIDA)
- o Ford Foundation
- o German Academic Exchange Service
- o German Foundation for International Development (DSE)
- o Government of Japan
- o International Development Research Centre (IDRC)
- o Lee Foundation

*SPAFA's programs are implemented by subcenters established in participating countries, Indonesia, Philippines, and Thailand, in such areas as preservation of ancient monuments, pre-history, underwater archaeology, preservation of traditional performing arts, etc.

**TROPMED's programs are implemented by National Centers established in participating countries, Indonesia, Malaysia, Philippines, and Thailand.

- o Netherlands
- o Roche Far East Foundation
- o UNDP
- o UNESCO
- o U.S. Agency for International Development (AID)

Personnel

The Secretariat has eight professional staff members recruited from the member countries. Each SEAMEO Regional Center or Project has its own professional, academic, or technical staff recruited from both inside and outside the region.

Library

There are approximately 2,500 books in the Library, on formal and nonformal education, science and mathematics, tropical biology, educational innovation and technology, language education, study and research in agriculture, archaeology and fine arts, and tropical medicine. These publications were prepared and published by the various SEAMEO Units. Colored slides and colored still photographs on the Organization's programs and activities are available for in-house use. A SEAMEO documentary film, 16mm, in sound, and in color, is also available and could be loaned out to any organization interested in SEAMEO.

Information Exchange

Information on SEAMEO activities, as well as on education programs and activities elsewhere in the world, through publications, periodicals, and newsletters is available. These documents are mainly in English.

The Library receives documents on an exchange basis from various educational institutions abroad, in addition to those coming from SEAMEO Regional Centers and Projects. The resources of the clearinghouse may be used by interested individuals upon request.

Publications

The SEAMEO Quarterly is sent free of charge to 1,500 individuals, ministers of education of member and associate member countries, Regional Centers and Projects, agencies, institutions, foundations, other interested organizations, universities, foundations, and libraries. It is written in English and reports mainly on activities of the Secretariat, Regional Centers and Projects. Interested institutions will be included in the mailing list upon receipt of written requests. Communications may be addressed to the Secretariat.

The Secretariat also publishes in English the Resource Book on SEAMEO (RBS), the SEAMEO Brochure, and the final reports on the annual Conference of the Southeast Asian Ministers of Education Council (SEAMEAC), the High Officials Meeting (HOM), the Center Directors Meeting (CDM), Non-Formal Education (SNEP) seminars and workshops, and other meetings convened by SEAMES. These publications are updated every three years.

Research

SEAMEO has research and development activities in various fields, through its Centers and Projects. Research projects may be proposed depending on policies set by Governing Board of each SEAMEO Regional Center or Project. Specific information may be obtained from the Center or Project concerned.

Laboratories or Field Sites

Each SEAMEO Center and Project has its own laboratory or field site. Specific information may be obtained from the Center or Project concerned.

Training

Each SEAMEO Center and Project conducts training courses in the field or discipline assigned to it. Facility in written and spoken English is required for admission to SEAMEO Regional Centers and Projects.

Scholarships to the SEAMEO Regional Centers and Projects are granted to nationals of SEAMEO member countries through nomination by their respective ministries of education. Non-SEAMEO scholars are also admitted.

The following SEAMEO Regional Centers and Projects award certificates of completion for short-term or specialized training programs: BIOTROP, INNOTECH, RECSAM, and SPAFA.

The following SEAMEO Regional Centers and Projects award certificates as well as post-graduate degrees: RELC, certificates, diplomas, Master's and Doctorate degrees; SEARCA, certificates for non-degree, specialized and short-term training programs, Master's and Doctoral degrees; TROPMED, diplomas, Master's and doctorate degrees.

Other information regarding length of courses and terms, tuition and other fees, type of degree or certificate awarded, present number of students, and number of graduates to date may be obtained by writing directly to the SEAMEO Regional Center or Project concerned or to the Secretariat.

Conferences

Each SEAMEO Regional Center and Project has its own scheduled conference(s) every year. The Center or Project concerned will provide information.

Requirements and Criteria

The Southeast Asian Ministers of Education Council determines the policies and the main lines of work of the Organization. The Governing Board of each SEAMEO Regional Center and Project determines the policies for the operation of the Center or Project.

SOUTHEAST ASIAN REGIONAL CENTER FOR
GRADUATE STUDY AND RESEARCH IN AGRICULTURE (SEARCA)

Contact Officer

Dr. Gil F. Saguiguit, Deputy Director

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2290, 2317

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Philippines

Telex Code

64628 SEARCA pn

Cable Code

SEARCA Manila

Relationships with Governments and Other Development Organizations

SEARCA is one of the regional education centers of the Southeast Asian Ministers of Education Organization (SEAMEU). (See page 176.)

The Center's capital and operating funds are provided by the host government as stipulated in the funding principles of SEAMEU. Its special funds are provided by SEAMES, the SEAMEU Secretariat.

SEARCA's programs of graduate study, research, and other academic activities are joined with some of the programs of the University of the Philippines (UP), its host institution. However, the Center's administration, budget, funding, and business procedures are independent of those of UP.

Since it started operating as a permanent Center of SEAMEU on July 1, 1969, SEARCA has also established working relationships with about 50 international, regional, and national agricultural research and educational institutions and organizations. Such relationships are covered by formal agreements.

In the SEAMEU member countries, linkages with ministries of agriculture, colleges and universities of agriculture, and other agricultural institutions and organizations are not covered by formal agreements.

Objectives

The general objectives of SEARCA are to provide to participating countries high-quality graduate study in agriculture and related sciences; promote, undertake, and coordinate research programs related to the needs and problems of the Southeast Asian region; and disseminate the findings of agricultural research and experimentation.

The functions of the Center are:

- o to provide advanced studies in agriculture leading to the M.S. and Ph.D. degrees;
- o to provide scholarships, fellowships, and assistantships for graduate students from countries in the region;

- o to promote, undertake, and coordinate research programs with special emphasis on research related to the important agricultural problems in Southeast Asia;
- o to publish the findings of agricultural research conducted in the region or of pertinent agricultural research done elsewhere;
- o to hold regional seminars on selected agricultural problems;
- o to provide advisory and consultative services to SEAMEO member countries through staff visits and exchanges, seminars, studies, and participation in national training and extension programs;
- o to stimulate and assist further development of agricultural institutions in southeast Asia, and to enlist their efforts in solving pressing agricultural problems in the region.

Personnel

SEARCA is administered by a Director and two Deputy Directors under the overall policy direction of a Governing Board composed of a representative from each member country. An Academic Consultative Committee serves as an advising group to SEARCA composed of the Chancellor, the Vice Chancellor, and the Deans of the different units of the University of the Philippines at Los Banos (UPLB). Under the Center's visiting professors program, an international visiting professorial staff is created with an average core staff of about nine to twelve scientists. Also supportive of the Center's graduate study program are six professorial chair holders from the host institution. SEARCA's programs and projects are coordinated by project managers. All activities of the Center are supported by the administrative and general services staff numbering about a hundred people.

Physical Facilities

Initially, SEARCA, with AID regional program funding, was responsible for the construction of the UPLB Library Building which has readership seating capacity of 650. The Library has some 115,000 books and bound periodicals (mostly owned by the UPLB) and numerous library materials such as thesis manuscripts, microfilms, and maps.

In mid-1978, SEARCA completed construction of its new headquarters on the UPLB campus. Construction of an annex building was completed in 1981. These structures have conference facilities, workshop and seminar rooms, additional offices, a library, and a canteen.

SEARCA has no field stations of its own, but its research and development projects may involve the use of experiment and field stations and laboratories through its cooperating institutions and organizations in the Philippines and other Asian countries.

Information Exchange

SEARCA has an information, records, and documentation office which is responsible for publication of books, manuals, bulletins, monographs, periodic reports, and others. These materials are written in English. SEARCA's information office exchanges information material with the other regional centers and projects of SEAMEO, with SEAMES in Bangkok, and with other agricultural information centers and organizations in and outside of the region.

One of the projects of SEARCA is the Agricultural Information Bank for Asia (AIBA), the major agricultural scientific information service for the Asian region. It is the Asian component of the AGRIS System, and through it nine countries in the region input their agricultural literature. It disseminates this pool of information through bibliographies, and delivers requested documents in photocopy form. There is a charge for photocopies; other services are free. Five SEAMEO countries also contribute additional agricultural extension literature to be put on tapes, which are then listed in a quarterly bibliography, AGRIASIA.

Publications

In addition to the different kinds of publications indicated above, the SEARCA Diary is published monthly in English and includes articles on the projects and activities of SEARCA and other SEAMEO centers, on SEAMEC and SEAMES, and significant developments in agriculture and related sciences either in the Philippines or in other countries. The Diary's current circulation is 1,300 readers in other SEAMEO Centers and Projects, SEAMES, Ministries of Education in SEAMEO member countries, donor institutions, supporting SEARCA projects, cooperating organizations, agricultural offices, and institutions in the Philippines and abroad, SEARCA alumni and other researchers, scientists, extension workers, and others directly involved in agricultural and rural development. There is no charge for subscriptions.

Research

SEARCA's research activities cover such areas as research management, agribusiness, and related projects, food fermentation, cassava, field legumes, postharvest technology, analysis and biological testing of amino acids, brown planthopper, social laboratory, and agriculture-aquaculture farming systems.

Research-oriented services include consultancies; conferences; meetings on identification of research programs and projects; designing, planning, organizing, and implementing research plans; monitoring research programs and projects; information banking and dissemination; and documentation and publication.

Training

One of the mainstays of SEARCA's manpower development program, aside from its graduate education program, is its short-term specialist training program. It offers periodic training courses for the benefit of agricultural organizations of SEAMEO member countries and other countries in Asia which, because of workload pressures, cannot afford to send their staff to SEARCA on a long-term basis. These training courses cover the fields of technical agriculture and

social organizations, technology transfer, agribusiness management, research management, case study writing, crop and livestock production, and information processing and documentation. Classes are conducted in English.

The short-term courses last from two weeks to six months. SEARCA maintains a special fund to support its training program, and nationals of SEAMEO member countries participate in most of these courses wherein all participants or their respective sponsoring institutions are asked to pay all expenses, including travel. Certificates of completion are awarded to participants who satisfactorily fulfill the requirements of the course.

Consulting Services

SEARCA maintains a directory of consultants from 11 countries, mostly in Asia, who could be tapped to assist governments and institutions develop and strengthen their agricultural and rural development programs.

Conferences

Conferences, seminars, workshops, meetings on agricultural and related topics and subject matter are held throughout the year on sponsorship by various organizations and groups. Facilities--conference/workshops/seminars/training/case room, auditorium, audiovisual equipment--are available. Accommodations in dormitory style guestrooms, and transport equipment are available. Charges: actual costs plus administrative overhead.

Funding

SEARCA funds a limited number of personnel exchanges and some initial activities in the promotion of its programs and projects. Only nationals, institutions, and organizations of SEAMEO member states are afforded these opportunities.

Requirements and Criteria

Priority is given to organizations in SEAMEO member countries. However, should organizations in other countries indicate interest in participating in SEARCA programs, projects, and activities, they may do so with corresponding financial contribution.

TECHNICAL INSTITUTE OF TRAINING AND PRODUCTIVITY (INTECAP)
Instituto Tecnica de Capacitacion y Productividad

Principal Officer

Edgar Alvarado Gardillo
Manager

Telephone Numbers

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310117, 310638, 310613, 313277,
313350

Address

INTECAP
Mateo Flores 7-51
Zona 5
Guatemala, Guatemala

Telex Code

INTECAP

Cable Code

INTECAP

Branch Offices

Guatemala, Quetzaltenango, Escuintla, Chiquimula, Puerto Santo Tomas de Castilla, and other places in the country.

Relationships with Governments and Other Development Organizations

INTECAP, a national agency, has agreements of cooperation with organizations for training and development in Latin America, and also with the InterAmerican Center for Research, Documentation and Professional Training (CINTERFOR).

Objectives

- o Training the human resources of the country in its different levels and sectors of the economy and the betterment of productivity.
- o Training in agriculture and husbandry, industry, services, commerce, building and construction, arts and crafts, the handicapped.
- o Technical assistance and information to small, middle and large industrial enterprises.

History

The Cooperative Institute of Administration (ICA) signed an agreement in June 1960 with the Guatemalan Government to establish the Center for Industrial Promotion and Productivity (CFPI) with the technical and economic cooperation of the Government of the United States in order to promote the industrial development of the country. In June 1963, the United States Government withdrew the economic assistance to the center. In May 1964, the Guatemalan Government established the Center for Industrial and Productivity Development (CDPI) in order to continue the work of CFPI, as a decentralized government agency, financed by the government, in order to cooperate with private incentive in the planning and promotion of productivity as a means for achieving the development of the country. In October 1969, the government established the National Center for Development, Training, and Productivity (CENDAP) to include technical training at the level of elementary education in all sectors of the economy and to continue the work initiated by CDPI.

In May 1972, the government established INTECAP to continue the work of CENDAP. The new financing of this Center includes a great amount from private and public enterprises.

Personnel

The multidisciplinary personnel of the Center prepare, conduct, and evaluate training programs; train instructors and other teaching personnel; and prepare examinations for the certification of workers. The Center has 197 professionals working in projects of development and technical assistance to arts and crafts institutions, small, middle, and large enterprises.

Physical Facilities

INTECAP has seven buildings. Its main offices contain a Library, 28 classrooms, and an auditorium. Five regional centers for training each have a library, seven classrooms, and seven workshops; an additional training center with classrooms and workshops for teaching metal mechanics is located in the city of Guatemala. There is also a workshop to teach electricity and mechanics in Guatemala City and 16 classrooms in different parts of the country, wherever there are branch offices.

Library

The Library contains 10,000 volumes on professional training, administration, supervision, and agriculture. Photocopying services are also available at a cost of \$0.08 per page, plus postage. Inquiries should be addressed to the Service of Information and Technical Documentation, INTECAP, at the address above.

Information Exchange

The Service of Information and Technical Documentation of INTECAP exchanges information with scientific and technological centers of Central America, the Caribbean, and Latin America in Spanish, English, Portuguese, and German. It also engages in exchange of methodology and teaching materials with similar institutions from Latin America and Europe. Special agreements exist with Argentina, Chile, Costa Rica, Germany, Italy, Peru, Spain, Switzerland, and Venezuela.

Publications

INTECAP publishes three monthly bulletins: Technical Bulletin of Management, with a circulation of 1,600; Technical Bulletin for the Foods and Chemical Industry, with a circulation of 750; and the Textile Industrial Technical Bulletin, with a circulation of 500. All are in Spanish and addressed to an audience of small and middle-level entrepreneurs, executive personnel, and professionals. The articles are technical, reproduced from specialized reviews. Inquiries should be sent to the Information and Technical Documentation Service at the address above.

Consulting Services

INTECAP provides advisory services on request; analysis of information as a basic element to solving problems and to providing technical facts which may guide in the determination of industrial possibilities with investment planning, and to helping develop those which are already in operation.

Training

INTECAP trains annually 60,000 persons at all levels and sectors in its fields of specialization: agriculture and husbandry, industry, services, commerce, building and construction, arts and crafts, and the handicapped. Teaching at the primary level is conducted by the dual system of classroom and actual work. At the present time, INTECAP offers nine short technological courses in management, and 31 at the middle level. For next year, it is expected to teach 100 short technical courses. This training is given mainly in the main center and the regional centers of the Departments of the country. All training is free and in Spanish. INTECAP does not offer rooms to the students.

TECHNOLOGICAL SATELLITE PROGRAM ON NATURAL RESOURCES
(Program ERTS-GEOBOL)
Programa del Satellite Tecnológico de Recursos Naturales

Principal Officer

Colonel Jaime Cardozo Vargas

Telephone Numbers

370-268, 363-474, 352-731

Contact Officer

Captain Ing. Antonio Perez Valencia

Mailing Address

Program ERTS-GEOBOL
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La Paz, Bolivia

Address

Program ERTS-GEOBOL
Federico Zuazo No. 1673
La Paz, Bolivia

Relationships with Governments and Other Development Organizations

Program ERTS-GEOBOL is a national program, working with the Bolivian Fiscal Office in Oil Fields, Mining Corporation of Bolivia, Ministries of Agriculture, Planning, and Coordination, Integration, Corporation of Electricity, National Service of Meteorology, Geographic Institute of the Army, National Statistical Institute, San Andres University of Bolivia, and the Development Corporations of the different states of the country.

Objectives

The purpose of the Program is to conduct research on the pictures and images of the ERTS-LANDSAT Program in several fields, and to apply its findings to the study of natural resources of the country. The Program uses pictures and images in black, white, and virtual color of the multispectral systems and multitemporal on waves 4, 5, 6, and 7, to prepare the inventory of the natural resources of Bolivia. Based on LANDSAT pictures, it checks against records of cartography, geology, geomorphology, soils, forests, hydrology, actual land uses, among others, to have a comprehensive study of natural resources.

History

The Program was created as a multidisciplinary, multi-institutional approach, with the participation of ten government agencies under the responsibility of the Bolivian Geological Service (GEOBOL) in 1972. ERTS was created by government decree #10135 of 1978, which ordered that all activities carried out individually by the ten agencies listed above were to be transferred to ERTS.

Personnel

Personnel consists of a director, five secretaries, 14 support technicians, and 19 senior technicians. These personnel include geologists, an agronomist, geographers, sociologists, scientists in soil studies, and technicians in computer science.

Physical Facilities

ERTS maintains a library, computer room, conference room, research and training room, a laboratory for cartography and photography, a drawing room, a map collection room, and a room for precision machines.

Library

The ERTS Library contains 1,000 volumes and a collection of 2,000 microfiches on the technology of remote sensors, utilization of pictures in different fields, and preparation of reports. It is free for the use of Bolivian institutions and individuals. Foreign orders may be requested by letter to the Director of GEOBOL, including payment for services, materials, and postage. Orders should be addressed to ERTS at the address above.

Information Exchange

The information available is specialized and in Spanish. There is an exchange of information with centers such as National Air and Space Administration (U.S.A.), National Oceanographic and Atmospheric Administration (U.S.A.), Purdue University (U.S.A.), the Inter-American Institute of Geography and History, INPE, among others. Additional information is available from ERTS.

Publications

ERTS is planning the publication of a technical series, including maps and photographs, to be published in Spanish and English. For additional information, contact ERTS at the address above.

Research

Using the LANDSAT pictures, complemented by air photography, specialists of the program conduct research into the availability of natural resources, and gather technical information on geology, soils, forests, hydrology. There is a sophisticated laboratory of images and pictures which may be used for information purposes. The findings are available to Bolivian nationals as well as to foreign scientific personnel and senior technicians.

Training

Scientific personnel are in charge of training. The duration of courses given depends on the level of the programs. Courses are given in Spanish to Bolivians. Seminars have been organized, in cooperation with the Inter-American Institute of Geography and History, for foreign students concerning the use of images via satellite and on the use of land in urban areas. The cost of training depends on its different levels and duration.

Consulting Services

Advisory services are offered to any person or institution, private or public.

Additional Information

The Program has reached the stage of implementation in order to prepare analyses of LANDSAT multispectral images. These are used for training courses using modern technology regarded as of particular interest for developing countries.

TECHNOLOGY CONSULTANCY CENTER (TCC)

Principal and Contact Officer
Dr. J. W. Powell, Director

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KUMASI 5351

Address
Technology Consultancy Center
University of Science & Technology
Kumasi, Ghana

Cable Code
KUMASITECH

Branch Offices or Field Stations

Suame Magazine, Kumasi, Kwamo, Tamale

Relationships with Governments and Other Development Organizations

The TCC is part of the University of Science and Technology (UST) at Kumasi. Some TCC projects are funded by CIDA (Suame) and AID (Tamale) in collaboration with the Ministry of Industries, Accra.

Objectives

The aim of the Center is to involve the staff and resources of UST more directly in the economic development of Ghana by means of:

- o consulting services;
- o pilot projects on and off the university campus;
- o craft training with emphasis on innovative activities, such as new products and processes; and
- o research and development work related to industrial problems.

History

The TCC was opened on January 11, 1972. The engineering workshop opened in February 1973. The soap pilot plant opened in June 1975. Exhibition of work took place at the Ghana International Trade Fair, Accra, in February 1976 and at University Silver Jubilee Flag Day Exhibition in November 1976. Suame ITTU opened August 1980.

Personnel

The TCC has ten senior academic staff and a total staff of approximately 80 including technicians and operatives in production units and the Suame Intermediate Technology Transfer Unit (ITTU).

Physical Facilities

Headquarters offices; on-campus workshops; ITTU offices and workshops, Suame; soap pilot plant, Kwamo. Tamlae ITTU under construction in 1983 will extend TCC services to northern and upper regions of Ghana.

Library

TCC has approximately 500 volumes on appropriate technology for small industries for use by consultants at no charge.

Information Exchange

The TCC acts as a clearinghouse on small industries and agriculture within Ghana and to a lesser extent in West Africa. Information is supplied in English only. It is available at no cost to all.

Publications

An illustrated Annual Review is published in English for University, and staff of government ministries, overseas aid organizations, manufacturers associations, etc. The circulation for this free publication is 1,500. A subscription automatically provides the subscriber with copies of case studies, TCC Business Studies Series, and handbooks.

Research

Research is undertaken in various faculties of the university. These include Engineering, Science, Architecture, Art (includes industrial arts), Social Science (including industrial management), Pharmacy, Agriculture (including agricultural engineering), and Medicine. Pilot plant operation.

Field Sites

Suame ITTU has a machine shop, metal fabrication shop, metal foundry, wood-working shop, retail store, and administrative offices. There is usually no charge for their use by industrialists and craftsmen of Suame Magazine, Kumasi. Inquiries should be sent to Suame ITTU, Suame Magazine, Kumasi, TCC.

Training

The TCC is not involved directly in academic teaching. It provides free training for craftsmen in various skills such as soap making, weaving, welding, machine tool operation, etc., with a view to upgrading skills and introducing new products and processes. Courses are in English and Ghanaian languages only. Duration varies but is often about three months for soap makers and one to two years for broadloom weavers. Students from other West African countries have been trained.

Consulting Services

TCC experts also make short visits to other West African countries to help establish pilot plants on TCC pattern. This service is available free to small industries, farmers, etc., and for a fee to large industries.

Special Services

The TCC holds national workshops when the need arises--"Beekeeping" January, 1981; "Starting Your Own Productive Enterprise" June/July 1981 and October 1982. These are held on campus and accommodation is provided at current university rates. Knowledge of English and of the technology in question are required.

UNIVERSITY OF THE PHILIPPINES
INSTITUTE FOR SMALL-SCALE INDUSTRIES (UP ISSI)

Principal Officer
Eduardo M. Taylor, Director

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98-10-34; 98-92-38

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UP Campus, Diliman
Quezon City, Philippines

Cable Code
INSMASCIND

Objectives

The purpose of the ISSI is to help accelerate the development of small and medium industries through training, research, promotional, and other related activities.

History

The UP ISSI was established in 1966 as one of the pioneering efforts in the country's small industry movement. The Philippine and Netherlands Governments entered into a joint agreement that created the Institute as a five-year project. Republic Act 6041, enacted in 1969, mandated that the Institute pursue the programs (training, research, consultancy) that it had begun, this time as a permanent unit within the University.

Personnel

The Institute employs 92 persons, 44 of whom are professionals (one lawyer, six engineers, four accountants, two statisticians, and others in the fields of economics, marketing, etc.)

Physical Facilities

The Institute's facilities include a conference room that can seat 50 persons, three classrooms, one laboratory, and an Apple computer.

Library

The Resource Materials and Documentation Center (RMDC) contains almost 10,000 books, pamphlets, and monographs; the Center subscribes to about 200 periodicals.

The RMDC, a unit of the Industrial Promotions Department, responds to the information needs of the UP ISSI staff, training participants, alumni, and consultants (foreign and local); UP faculty and students; entrepreneurs; and others.

Ninety percent of the RMDC collection is in English and the remainder is in other foreign languages or in Philippine dialects.

Information Exchange

The Resource Materials and Documentation Center (RMDC) has a formal networking arrangement with the libraries and information centers of the ten Technonet Asia (see page 31) participating organizations in nine Asian countries: Bangladesh, Hong Kong, Indonesia, Republic of Korea, Malaysia, the Philippines, Singapore, Sri Lanka, and Thailand.

The Technical Inquiry Service of the RMDC answers inquiries concerning processes, methods, techniques, equipment, and management of small-scale industries. There is no fee for the service except a minimal charge for document reproduction costs, if there are any.

Publications

ISSI publishes in English a bimonthly newsletter, Small Business Entrepreneurs; it is an illustrated publication containing technical articles on small-scale enterprise management and development. The journal is distributed to approximately 2,000 entrepreneurs, managers, extension workers, trainers, and other development workers. Currently the newsletter is free of charge. There are plans to sell subscriptions later in 1983. For information about subscriptions, write to ISSI at the address above.

Research

UP ISSI conducts the following types of research:

- o policy-oriented studies that seek to evaluate policies and programs of the Philippines for small and medium industry (SMI) development;
- o extension-oriented studies that seek to generate significant information to help SMIs in starting, managing, or improving their businesses as well as to provide information to SMI consultants and extension workers so that they may more effectively assist small entrepreneurs;
- o technological research geared towards facilitating transfer of technology and upgrading the level of technology among SMIs to improve their productivity;
- o training-oriented research that provides significant inputs into the Institute's training programs in terms of evaluation of programs and development of case materials and other training aids; and
- o entrepreneurship studies that probe into the personality, behaviour, and motivation of the entrepreneur.

Copies of the studies are available from UP ISSI to clients and to the general public.

Training

UP ISSI is a non-degree-granting institution; it regularly conducts training programs which run from two weeks to six months. Participants are either

graduate students or those who have enough experience to make up for the absence of a degree. Courses are conducted in English. Inquiries should be addressed to EMDD, UP ISSI, UP Campus, Diliman, Quezon City.

Other Services

ISSI organizes conferences on small and medium-scale industry management, problems, etc.; these are attended by representatives from other government agencies as well as entrepreneurs. Inquiries should be addressed to UP ISSI at the address above.

Funding

Fellowships for long-term courses are provided by the Netherlands Government; participants, however, are selected by the United Nations Development Programme (UNDP).

UNIVERSITY OF THE SOUTH PACIFIC

Principal Officer

Mr. Geoffrey Caston, Vice-Chancellor

Telephone Number

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Contact Officer

Dr. Tupeni L. Baba, Registrar

Telex Code

FJ2276

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UNIVERSITY SUVA

Other Campus

Alafua Campus, Alafua, Western Samoa

Mailing Address

University of the South Pacific
P.O. Box 1168
GPO Suva, Fiji

Relationships with Governments and Other Development Organizations

The University is a regional organization; the supporting member governments are Cook Islands, Fiji, Kiribati, Nauru, Niue, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, and Western Samoa.

These eleven governments of the South Pacific Region appoint a member or members to the University Council, which is the main governing body of the institution. The South Pacific Commission appoints a member to the Council of the University; provision is being made for the South Pacific Bureau for Economic Cooperation to do likewise.

The University is supported in developmental work by United Nations agencies, by the Commonwealth Secretariat, by the European Economic Community, and other agencies.

Objectives

"The objects of the University shall be the maintenance, advancement and dissemination of knowledge by teaching, consultancy and research and otherwise and the provision at appropriate levels of education and training responsive to the well-being and needs of the communities of the South Pacific."

On the developmental side, the principal fields of technical and informational assistance are agriculture, education, marine resources, natural resources, Pacific studies, and social and administrative training.

History

The University of the South Pacific was established on the recommendation of the Report of the Higher Education Mission to the South Pacific in 1966. The founding governments were those of ten island countries of the South Pacific. The first students were admitted in 1968. A series of Extension Centers has been established in most of the member countries, and a satellite voice communication network established for administrative and academic conferencing purposes. In 1977, the University acquired a second campus at Alafua in Western Samoa on which it established a School of Agriculture.

Personnel

The University has about 250 senior academic, technical, library, administrative, and comparable senior staff. The academic staff are qualified in the usual range of academic disciplines in the sciences, social sciences, education, and agriculture. Some 40 members of six Institutes are engaged full-time in development services; a large number of the academic staff may be drawn on as required.

Physical Facilities

At Suva in Fiji, the University maintains a 73 hectare campus with classrooms, laboratories appropriate for a student body of 1,500 taking courses in the School of Education, which produces most of the region's teachers; the School of Natural Resources, which contains the disciplines of biology, chemistry, and physics; and the School of Social and Economic Development, which provides instruction in accounting, administration, economics, geography, history, political science, and sociology; a Library of 220,000 volumes; meeting and committee rooms; a voice communication network through satellite with almost all the countries of the South Pacific region; residential facilities for students; excellent access for marine work; audio and video production facilities; an educational media laboratory and equipment. The Alafua Campus, at Apia, Western Samoa, contains laboratories, classrooms, farming area, experimental plots, and other facilities appropriate to a School of Agriculture; a plant pathology laboratory and a training center with a small residential accommodation are being constructed.

Library

The 220,000-title Library covers the general subject areas of political science, education, languages and literature, social science, science, technology and agriculture, with a special Pacific Collection. At present the only charge made is for the cost of photocopies. The Library may be used by students and staff of the University of the South Pacific and others as approved. Inquiries should be addressed to The University Library, University of the South Pacific.

Information Exchange

The University Library has 43 publications on its exchange list which it sends free to 2,778 exchange partners. The Library is involved in an average of 822 interlibrary loan transactions annually. This service is largely free and is available to staff and others at the discretion of the University.

Research

Research in the University covers a wide range of topics in science and social science. Most research in the University is undertaken with a view to applicability and relevance in the South Pacific. The University publishes, on an irregular basis, the South Pacific Register of Research and Investigations, reporting on research projects undertaken.

The University Institutes of Agriculture, Education, Marine Resources, Natural Resources, Pacific Studies and Social and Administrative Studies, undertake

funded development-oriented research and consultancy work for benefit of the South Pacific region.

In addition to the Extension Centers and Alafua Campus, the University has an Atoll Research Unit with its own base in Kiribati, an island field station in Fiji, and a Rural Development Center being developed in Tonga. A language and cultural center is planned for Vanuatu.

The University would be willing to discuss possible use of its field stations by any bona fide research organization working for or on behalf of governments of the South Pacific. Inquiries should be addressed to The Vice-Chancellor, University of the South Pacific.

Additional Information

The University is involved in development-oriented education, research, consultancy, and training work for the communities of the South Pacific region and would welcome inquiries from governments or organizations with this common aim.

WEST AFRICA RICE DEVELOPMENT ASSOCIATION (WARDA)

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Sidi Coulibaly, Executive Secretary

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221466; 221963

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Cable Code
WARDA

Mailing Address
West Africa Rice Development Association
P.O. Box 1019
Monrovia, Liberia

Field Stations

Research stations are located at Bouake in the Ivory Coast, Mopti in Mali, Richard Toll in Senegal, and Rokupr in Sierra Leone. There is a seed nursery in Suakoko, Liberia; a training center, seed laboratory, and processing laboratory in Fendall, Liberia; and quarantine facilities in Ibadan, Nigeria. In addition, there are subregional branches in Bathurst, Gambia; Conakry, Guinea; Accra, Ghana; Bobo-Dioulasso, Upper Volta; and Niamey, Niger.

relationships with Governments and Other Development Organizations

WARDA has 15 member country governments (Benin, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Togo, and Upper Volta), and has working relationships with the following development organizations: International Rice Research Institute (IRRI), the Philippines; International Institute of Tropical Agriculture (IITA), Nigeria--program on rice breeding; International Development Research Center (IDRC), Canada; as well as with other CGIAR organizations.

Objectives

WARDA is actively involved in the promotion of rice development through research, training, consultancy, extension services, and information activities. Its basic aim is to coordinate and support the efforts of its member countries to become self-sufficient in rice within the shortest time possible by:

- o encouraging, coordinating, and undertaking, as necessary, basic and applied research programs in the scientific, technical, economic, and sociological fields;
- o collecting, analyzing, and disseminating information on methods applied, experience gained, and results obtained both within and outside West Africa;
- o organizing or arranging for conferences, seminars, and training facilities, securing of fellowship, or assisting in the establishment of advisory services and training and extension facilities;

- o elaborating requests for special financial and technical assistance and receiving and administering separately such financial and technical assistance as may be made available under the appropriate programs of the United Nations, the Specialized Agencies, other organizations, or governments desirous of supporting the aims of the Association;
- o providing, as appropriate, regional rice research and development facilities; and
- o carrying out or promoting any other measures or activities at the regional as well as the national level, as determined by the Governing Council, for the purpose of developing rice production and marketing in West Africa.

History

WARDA was formally established in September 1970, by 11 member countries, while the Secretariat was set up in December 1971, and field activities started in 1973. Since the Association's establishment, membership has grown to 15 countries. WARDA has established four regional research stations and five subregional zones.

Personnel

There are 68 senior academic, professional, and other technical staff members and 110 general service staff members.

Physical Facilities

WARDA's facilities include two Libraries, one conference room, a training center, five field stations, and a Wang computer.

Library

The Library contains approximately 12,000 volumes. The Library compiles specialized bibliographies, exchanges publications, and provides answers to questions. There is microfilming and photographic equipment.

Information on rice and all aspects of rice production is provided in English and French. WARDA has formal arrangements or connections with major regional and international agricultural information clearinghouses. Any interested person may use the services. Information services are available at no cost to the user.

Publications

WARDA publishes WARDA Technical Newsletter in French and English at irregular intervals. It contains only technical material and may be illustrated. It has a circulation of up to 1,000 scientists, policy makers, development specialists, cooperating and financing institutions.

WARDA also publishes ADRAO Bulletin Technique and bibliographical indexes, in French and Spanish. The frequency of publication varies. All publications

are free. A list of WARDA publications, updated annually, may be obtained from: Communications Division, WARDA, P.O. Box 1019, Monrovia, Liberia.

Research

WARDA has substantial research capability. Research is a major function of the Association, with senior scientists working on rice research activities at headquarters and field stations, and appropriate facilities and equipment.

The Research Department is conducting coordinated trials on mangrove swamp rice production, upland rice production, irrigated rice production, Azolla, rodent/bird control, and deepwater/floating rice production.

The Development Department is carrying out technical assistance and studies on rice policy and trade analysis, mechanization and water management, postharvest technology, and statistics and data analysis.

Training Services

Part of WARDA's function is conducting training. A WARDA Regional Training Center with facilities for 40 students is located in Fendall near Monrovia for training rice specialists from member countries. Training is offered in both French and English with simultaneous translation. Courses in such areas as rice production, postharvest technology, water management, seed multiplication, and pest control range in length from one week to six months with free tuition for students from member countries. Certificates are awarded for the six-month rice production course. Approximately 700 persons have completed such courses from 1973 to date. Only students from WARDA member countries are accepted.

Consulting Services

WARDA offers expertise in agronomy, economics and finance, postharvest storage and processing, agricultural information systems, rural engineering and irrigation, and training.

Requirements and Criteria

WARDA research programs are regional in nature, and must be approved by the Governing Council. Technical assistance requests, in the fields of development and training, from WARDA member countries and within WARDA's overall mandate, are met within the limits of staff and other capabilities. Institutions and organizations outside the member countries with which WARDA has cooperation agreements may also request assistance.

U.S.-BASED, AID-FUNDED SERVICES

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ACADEMY FOR EDUCATIONAL DEVELOPMENT (AED)

Project: AID Rural Satellite Program (RSP)

Project Director

Anna Casey-Stahmer, Director
Applications Management

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AID Project Officer

Robert Schenkkan
Office of Education
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

936-5811

AID Contract Number

DPE-5811-C-00-0045-00

Objectives

The purposes of the AID Rural Satellite Program are:

- o to develop and test the use of satellite communications to provide educational information and telecommunications services for rural development;
- o to demonstrate to communication carriers and equipment suppliers the need and market for appropriate rural communications services;
- o to help lower the cost of earth stations by demonstrating appropriate technology and applications;
- o to provide international lending agencies and national planning and telecommunications agencies evidence of the benefits of rural telecommunications investments;
- o to support the growth of national capacities to integrate telecommunications investment planning with rural development programs in areas such as education, health, and agriculture.

The Program includes pilot projects cooperatively planned and implemented with three developing areas (Indonesia, West Indies, and Peru); policy studies designed to specify the alternatives available to developing countries in obtaining satellite services for rural domestic use; training of applications and technical staff in using telecommunications for rural development; a newsletter and reference service; and evaluation of the pilot projects.

In addition, NASA's Lewis Research Center, with support from AID's Office of Energy, is conducting research on using solar power for rural small earth stations, and the Institute for Telecommunications Sciences in Boulder, Colorado, is working with AID to develop innovative systems designs and technologies for the earth segment.

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History

This five-year program began on September 30, 1980.

Personnel

The Project staff at AED include four professionals specializing in satellite policy analysis; planning, managing, and evaluating the use of telecommunications systems in support of rural development; economic and tariff analysis; information system design and management; training; and equipment procurement. The engineering subcontractor, Teleconsult, employs staff skilled in telecommunication and satellite systems design and engineering. Field offices in the three pilot projects include host country project directors and AED field advisors with skills in instructional design, training, evaluation, and project implementation.

Physical Facilities

The central offices of AED include basic administrative facilities as well as conference rooms, computer and word processing equipment, and the library collection of the Rural Satellite Program. Each project site in Indonesia includes a classroom large enough for 50 people, equipped with a speaker system, microphones, audiographic equipment, and facsimile. The same is true for the West Indies project, although the rooms are smaller and have been equipped with audio conferencing speakers and microphones. Each of the communities in the Peruvian project has a teleconferencing room equipped with audio conferencing microphones and speakers, as well as regular telephone facilities that will be available to commercial users on a tariff basis.

Library

RSP has approximately 1,500 documents on satellite applications; rural telecommunications; and international, national, and regional satellite systems. The Library is available for research by the public Monday to Friday from 9:00 a.m. to 5:00 p.m. Initial use requires a short introduction by program staff, thus a telephone call before the first visit will be appreciated. Inquiries may be directed to Ms. Sandra Lauffer, Director of Information, Applications Management, AID Rural Satellite Program, at the address above.

Information Exchange

The Program's information staff responds to questions and requests related to satellite and telecommunications activities as time and resources permit. If the response requires extensive photocopying, inquirers in developed countries are charged for photocopying and staff time. Requestors from developing countries are not charged. Most materials are available only in English; staff members have language proficiency in French, Spanish, and German. Inquiries may be directed to the Director of Information at the address above.

Publications

RSP publishes a biannual newsletter entitled Uplink. This illustrated periodical contains a mixture of articles on satellite applications and hardware as well as policy discussions. It is distributed free of charge to

2,500 policy makers, development professionals, satellite industry personnel, and universities. Other program publications generally are announced in the newsletter and may be requested in writing. For information about Uplink and other RSP publications, write to Sandra Lauffer, Director of Information, at the address above.

Research

Pilot projects are underway in Indonesia, the West Indies, and Peru. The Indonesian BKS Rural Satellite Project is putting in place an audio teleconferencing system linked by Indonesia's Palapa satellite to enable the campuses of the Eastern Islands University Association to share resources for distance teaching, research, and administrative activities. The University of the West Indies Distance Teaching Experiment has established an audio teleconferencing network linking campuses in Jamaica, Barbados, and Trinidad with extension centers in St. Lucia and Dominica for distance teaching and extension activities. Evaluation of these projects will be performed by Abt Associates, Inc. (Cambridge, MA). The Peru Rural Communications Services Project (funded by AID's Bureau for Latin America and the Caribbean) is establishing a communication system linking seven communities in the San Martin region for use by development ministries for education and extension activities. Evaluation of this project will be carried out by Florida State University.

In addition, policy studies on available satellites and telecommunications financing have been conducted; short-term training has been conducted for project staff in all three projects; and information activities to support the Program are firmly established.

RSP offers technical and research assistance in needs assessment, feasibility studies, tariff analysis, economic analysis, policy analysis, and evaluation. Services are available to all developing countries. Costs are negotiated with the requestor. Inquiries should be directed to Anna Casey-Stahmer, Director, Applications Management, AED, at the address above, or to Robert Schenkkan, Office of Education, Room 603B, Bureau for Science and Technology, AID, Washington, DC, 20523, U.S.A.

Training

Short- and long-term training are provided to Project personnel from participating countries. To date the Program has not provided training to non-Program personnel except in workshop settings under other auspices.

Consulting Services

Consulting services are available on short- and long-term bases for project design, implementation, and evaluation. Inquiries should be directed to the AID mission in the developing country requesting the services.

Conferences

The AID Rural Satellite Program will conduct a conference at the end of the Program to disseminate the results of the Projects. Information on that conference is not yet available, but inquiries and expressions of interest may be sent to the Director of Information, at the address above.

ACADEMY FOR EDUCATIONAL DEVELOPMENT (AED)

Project: Clearinghouse on Development Communication (CDC)

Acting Project Director
Judith Brace

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AID Project Officer
Dr. Clifford H. Block
Office of Education
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-0925

AID Contract Number
DPE-1231-C-00-0045-00

Objectives

The Clearinghouse on Development Communication is an international center providing information and services to promote the appropriate use of communications in developing country programs. The Clearinghouse regularly provides a network of development practitioners in more than 150 countries with information on communication strategies. Services include publications, reference and resource centers, training workshops, and seminars in communication.

History

The Clearinghouse began as an Information Center in 1973 with the mandate of addressing the information needs of development communicators and educators regarding relevant applications of instructional media and technology. As AID's focus in the field of education broadened, so too did the Clearinghouse's scope to relevant, cross-sectoral information on applications of communications to a substantially wider community. CDC's four professionals collect and analyze information and applications of communication to the fields of agriculture, nutrition, health, education, population, and community development.

Personnel

The staff includes the Director, an Assistant Director/Resource Center Manager, an Editor, and a Program Assistant.

Physical Facilities

Library, audiovisual room, conference rooms, computer rooms.

Library

The Library holds 10,000 volumes on communication theory and application and international development, as well as films, videotapes, slide/tape productions, and audio cassettes. Use of books and materials on premises is free of charge. Some of the audiovisual materials are available on short-term loan. Inquiries should be directed to the Director.

Information Exchange

Technical Information and Reference Service: Upon request, the Clearinghouse provides library, research, and referral services to practitioners in the field of development communication. Inquiries should be sent to the Director.

Publications

The Development Communication Report is published quarterly in English. Its 5,000 subscribers include telecommunications professionals, development communicators, and educators. It is sent free to subscribers in developing countries and costs \$10 a year to others. Address subscription inquiries to the Clearinghouse.

Training

The Clearinghouse designs, conducts, and lends support to a variety of seminars and workshops world-wide by identifying appropriate materials for study and distribution, providing technical assistance, and lending and maintaining a library of films and videotapes on development communication for use in such seminars.

ACADEMY FOR EDUCATIONAL DEVELOPMENT (AED)

Project: Mass Media and Health Practices

Project Director

Dr. William A. Smith

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AID Project Officer

Dr. Anthony Meyer

Office of Education

Bureau for Science and Technology

Agency for International Development

Washington, DC 20523 U.S.A.

AID Project Number

931-1018

AID Contract Number

AID/DSPE-C-0023

Objectives

The goals of the Project are to reduce infant mortality due to diarrheal dehydration through the development of large-scale public education campaigns promoting oral rehydration therapy (ORT) and related health behaviors in rural areas. The programs include a focus on ORT, breastfeeding, immunizations, malaria, and tuberculosis. The media program uses an integrated approach, combining radio messages with health worker training and special print materials to get useful information to a widely dispersed population.

Technical assistance focuses on practical research, development of specialized educational materials, campaign planning, health worker training, and program evaluation.

Through AID missions, AED, and the Ministries of Health in Ecuador, The Gambia, and Honduras have defined in formal agreements how the technical assistance under this contract will be provided to strengthen the MOHs' continuing capacity to use media effectively in health education.

History

The first major campaign on diarrheal disease control in Honduras has been completed; it was a three-year effort which produced significant changes in how rural women treat diarrhea and resulted in a significant decrease in the number of deaths due to diarrheal dehydration. The program in Honduras has been expanded to include major campaigns on malaria, immunizations, tuberculosis, and water and sanitation.

The campaign on diarrheal disease control in The Gambia is entering the final stages. The oral rehydration therapy campaign in Ecuador has just begun.

Personnel

There are two Field Project Directors in Honduras and one in both Ecuador and The Gambia.

Physical Facilities

The Academy is housed in an office building in downtown Washington, DC. It has a library, TV viewing room, conference rooms, offices, and computer rooms. The projects have office facilities in Quito, Ecuador; Tegucigalpa, Honduras; and Banjul, The Gambia.

Library

The Mass Media and Health Project has access to the Library of the Clearinghouse for Development Communications, AED. (See page 207.)

Publications and Information Exchange

Reports on Project activities and results are available in English, Spanish, and French. Inquiries should be sent to the Director of the Project.

Research

Research is carried out on site as necessary for the needs of specific projects. Research includes anthropological studies, marketing research, and communications research as well as studies of specific behavior and relevant rural practices and customs related to health and disease control.

Training

Each project involves the training of health workers in oral rehydration therapy and teaching, and the training of host country health educators and administrators in message design, materials development, testing, and program monitoring.

Consulting Services

Technical assistance services can be provided to Ministries of Health in developing similar programs in ORT and health education. Inquiries should be sent to Dr. Anthony Meyer, Agency for International Development, Bureau for Science and Technology, Office of Education, Room 603C, SA-18, Washington, DC, 20523, U.S.A., or to the local AID mission.

ACADEMY FOR EDUCATIONAL DEVELOPMENT (AED)

Project: Rural Primary Schools Extension Project: Radio Language Arts (RLAP)

Project Director
Dr. Maurice Imhoof

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Field Office and Coordinator
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Radio Language Arts Project
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AID Project Officer
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Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-1017

Contract Number
DPE-0000-C-00-033-00

Objectives

RLAP has the following objectives:

- o in cooperation with the Ministry of Basic Education of Kenya, conduct an indepth study of the cultural, linguistic, and educational features of the country as they relate to language arts instruction;
- o conduct training and development activities for, among others, materials writers, broadcasters, and formative evaluators; conduct in-service training for primary teachers involved in the project;
- o develop three levels of radio language arts lessons, covering Standards 1-3, and test their effectiveness in sample primary schools;
- o evaluate the cost-effectiveness and pedagogical effect of the radio language arts model with respect to Kenya;
- o produce a documentary film and other materials on the Project activity and results;
- o disseminate information about the Project to the professional community both inside and outside Kenya; and
- o disseminate prototype project materials outside Kenya.

This Project will design, implement, and evaluate a radio-based instructional system within the framework of the Kenya language curriculum to teach reading

readiness and comprehension, language decoding, and fluency in written English to primary school students whose home language is not English. An important feature of the Project is the use of frequent and systematic reporting of students' performance to materials developers to provide for immediate and effective modification of the radio lessons. The radio language arts curriculum materials developed during the course of the Project are expected to be usable with modifications in other countries.

History

The Project began in 1979. Since its initiation, RLAP has developed radio lessons for the first two primary grades in Kenya. The Project is in the second year of broadcasting; year three is planned, and writing and production began in October for broadcasting to begin in January 1984.

Personnel

In Washington, there are the Project Director and his assistant; the field staff includes a Field Coordinator, a Feedback Coordinator, four language arts specialists, two educational broadcasters, and seven technical and administrative employees.

Physical Facilities

A radio studio is available to the Project for two and half days a week. The Project also has access to an editing studio and offices.

Library

All projects of the Academy for Educational Development have access to the library facilities of the Clearinghouse on Development Communications. For detailed information of the Clearinghouse and its facilities, see pages 206-207.

Publications

The Project has published many papers and project profiles. In addition, the Clearinghouse on Development Communications publishes the quarterly newsletter, Development Communications Report. Inquiries about RLAP papers and reports should be directed to the Project Director, RLAP. Inquiries about the newsletter should be addressed to the Director, Clearinghouse on Development Communications, 1414 22nd Street, NW, Washington, DC, 20037, U.S.A. Subscriptions are free to persons in developing countries.

Research

The Project is a research and development project evaluating the effectiveness of teaching English language by radio at the primary level. The staff is developing radio lessons and broadcasting to 21 pilot schools. Currently, the project is comparing the English language proficiency in the radio schools with proficiency in conventional schools. The research design and evaluation instruments are ready for application.

Project documents are available free of charge as part of the dissemination activities.

Training

The Project staff is training Kenyan materials developers, educational broadcasters, and primary school teachers in the development, modification, and use of curriculum materials.

Consulting Services

This Project does not provide consulting services.

AMERICAN PUBLIC HEALTH ASSOCIATION (APHA)

Project: Clearinghouse on Infant Feeding and Maternal Nutrition

Project Director
Gayle Gibbons

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Address

American Public Health Administration
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Washington, DC 20005 U.S.A.

AID Project Officer
Dr. Tina Sanghvi
Office of Nutrition
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-1010

AID Contract Number
AID/DSAN-C-0208

Objectives

This Project disseminates information about all aspects of infant feeding and maternal nutrition to health professionals, nutritionists, and government policy makers primarily in developing countries.

History

Since the project's inception in September 1979, over 3,000 documents have been catalogued by subject, author, and country. The Clearinghouse collection is organized so that the system can be replicated in other countries, and a regional information center has been established in Central America.

Personnel

The Project staff include a Director, a librarian/staff associate, and a library clerk/secretary.

Information Exchange

There are 80 periodicals and journals, 3,000 documents and books on infant feeding and maternal nutrition in the Clearinghouse collection. The collection is available by appointment for researchers/institutions and interested individuals and groups. Individuals in the field can contact the Clearinghouse with specific information requests. In addition to photocopies of documents, the Clearinghouse can provide bibliographies on specific topics and referrals to professionals who may be able to assist requestors. There is a small photocopying charge to users in developed countries but none to individuals or organizations from developing countries.

Publications

The Project publishes a newsletter, Mothers and Children, in English, French, and Spanish. Its current circulation is 10,000; distribution is free to health professionals, nutritionists, and policy makers in developing countries. Subscriptions cost \$5 for 3 issues to persons in North America and Europe.

ASSOCIATION FOR VOLUNTARY STERILIZATION (AVS)

Project: International Project of Association for Voluntary Sterilization (IPAVS)

Project Director
Terrence Jezowski

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425604 AVS-UI

Cable Code
IAFORVS NEW YORK

AID Project Officer
Neil Woodruff
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Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
932-0968

AID Contract Number
DPE-0968-A-00-2001-00

Branch Offices
Dhaka, Bangladesh; Bogota, Colombia; Tunis, Tunisia

Objectives

The AVS International Project has as its central objective to make voluntary surgical contraception available as a realistic option for all the people of the world. IPAVS places primary programmatic emphasis for local project funding on services, both local and national; training for physicians and health support personnel; professional education in the form of workshops, conferences, and seminars; public information and education; equipment provision, repair, and maintenance; national, regional, and international leadership development; and programmatic and operational research to improve the quality and effectiveness of the programs.

AVS has entered into formal agreements with several governments, either to enable AVS to establish and operate regional offices or to support programmatic activities of the government or private institutions. AVS also coordinates its activities with other international health and family planning agencies at both the headquarters and field levels.

History

The International Program of AVS was launched in August 1972, when AVS began supporting training and service projects in several countries in Asia and Latin America with funds provided by private donors and AID. The level of AVS assistance to overseas projects has increased over the years almost doubling between 1976 and 1982.

Personnel

AVS staff consists of 20 program development specialists with expertise in population, family planning, and public health in developing countries; 18 administrative specialists, including accountants, personnel officers, a

travel officer, a librarian, and a publications manager; four medical specialists; three data processing specialists, and 35 support staff members.

Physical Facilities

AVS's headquarters in New York includes a Library, audiovisual equipment, and a conference room.

Library

The Library contains 2,200 monographs, and receives 226 periodicals on male and female sterilization, family planning, and population. Over 140 audiovisual software items include films, audiocassettes, and slides. AVS headquarters has a Sperry BC/7 minicomputer. Use of the Library is available to anyone working in the fields of family planning, population, or related areas free of charge. Inquiries should be addressed to the Library, Association for Voluntary Sterilization, at the address above.

Information Exchange

The Library is a cooperating member of the Manhattan/Bronx Health Sciences Libraries Group; the Association for Population/Family Planning Libraries and Information Centers International (APLIC); and the New York Metropolitan Reference and Research Library Agency (METRO).

The Library is also in the OCLC computer through the Medical Library Center of New York.

Inquiries should be addressed to the Library, AVS, at the address above.

Publications

AVS publishes an illustrated quarterly journal entitled Biomedical Bulletin in English; it is distributed to approximately 3,000 medical and technical personnel working in the field of voluntary sterilization. There is no charge. Inquiries should be addressed to the Managing Editor, Biomedical Bulletin, AVS, at the address above.

AVS also publishes three times a year an illustrated journal entitled Communique; it is published in English and distributed to about 4,000 professionals in family planning and population who work in the developing world and have a special interest in voluntary sterilization. There is no charge. Inquiries should be addressed to the Editor, Communique, World Federation of Health Agencies for the Advancement of Voluntary Surgical Contraception, 122 East 42nd Street, New York, NY, 10168, U.S.A.

Research

AVS provides financial support and technical assistance to developing countries for conducting operational and programmatic research, with the ultimate goal of improving the quality and cost-effectiveness of voluntary sterilization programs. A wide range of research activities are supported, e.g., studying the comparative advantages of various program approaches, assessing the effectiveness of ongoing projects, surveying the sociocultural factors

affecting demand for voluntary sterilization, and measuring the impact of voluntary sterilization on maternal and child health.

AVS provides technical assistance to AID missions, multilateral agencies, governments, and private institutions to identify research needs, develop study designs, implement projects, and utilize research findings.

Training

AVS does not conduct training courses, but provides for international training opportunities related to voluntary sterilization. AVS provides funds for travel, per diem, and tuition fees. Address inquiries to Director, International Program Division, AVS, at the address above.

Consulting Services

AVS arranges for short-term consultants to provide technical assistance in areas such as design, evaluation, and management of voluntary sterilization programs. AVS covers the costs of the consultants' fees, per diem, and other in-country support, if necessary.

Other Services

AVS has access to the following data bases:

- o MEDLARS, including MEDLINE, POPLINE, AVLINE, BIOETHICS, CATLINE, HEALTH and HIST LINE;
- o DIALOG, including Encyclopedia of Associations, ERIC, Federal Index, Population Bibliography, American Statistics Index, Legal Resources Index;
- o Bibliographic Retrieval Services, including Books in Print, GPO Monthly Catalogue, Health Audio/Visual Catalog, MEDLARS, Psychological Abstracts, and Ulrich's Periodicals.

There is no charge to cooperating libraries and other consortia. Anyone may use this service by appointment. Anyone not referred by a cooperating library will be charged at cost for both on-line and off-line services. Searches are conducted only in the field of voluntary sterilization and closely related areas. Inquiries should be addressed to Library, AVS, at the address above.

Conferences

AVS provides full or partial support and funds the costs of participants or speakers for annual meetings and conferences related to voluntary sterilization. Generally, participants are not charged for attendance. Participants and speakers are invited by the host organizations.

Funding

To expand the availability of high-quality voluntary sterilization services on an institutionalized basis and to increase the acceptability of sterilization as a family planning and health measure, AVS provides financial support for the following:

- o service delivery programs, including renovation, equipment, and operating costs;
- o training for physicians in sterilization techniques;
- o training for health support staff in activities related to voluntary sterilization;
- o information, education, and communications programs;
- o leadership groups that share AVS's goals and are working to achieve them;
- o equipment repair and maintenance centers;
- o operational and programmatic research related to family planning and voluntary sterilization; and
- o conferences, seminars, meetings, and workshops related to voluntary sterilization.

Recipients of AVS funding may be in either the public or private sector, either profit or nonprofit making.

Requirements and Criteria

AVS assigns the greatest priority in its assistance to programs that have the greatest potential for institutionalization. However, in some countries, where the possibility of institutionalization is remote, AVS may support programs that are not capable of achieving self-sufficiency in the short term, but that deserve funding because they serve the goals of voluntary sterilization. The voluntarism of sterilization must not be compromised.

AUBURN UNIVERSITY
INTERNATIONAL CENTER FOR AQUACULTURE (ICA)

Project: Aquaculture Technology Development

Project Director
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AID Project Officer
Dr. Norman Pease
Office of Agriculture
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Cooperative Agreement
DAN-1314-A-00-2005-00

Objectives

The major objective of the Project is to provide technical advisory services in fisheries and aquaculture to AID missions, host countries, and international organizations. ICA service is available in many areas of fisheries and aquaculture including hatchery management, fish breeding, pond management, feeds and feeding, polyculture, pond construction, fish diseases and parasites, aquacultural economics, fish marketing, fisheries biology, ponds and lake dynamics, riverine fisheries, extension methodology, and water quality. ICA staff also participate in sector analysis and feasibility studies, prepare project documentation materials for AID missions, and carry out project reviews and evaluation studies.

History

In 1967, a cooperative project worldwide in scope was developed between Auburn University and AID. The principal focus of this project was to provide technical assistance to developing countries on the use of inland fisheries and aquaculture to enhance production of food and income. With the support of AID, the University established the International Center for Aquaculture in 1970. Since its inception, the Center has expanded its facilities, staff, and services so that it is now capable of providing technical assistance in virtually any aspect of inland fisheries and aquaculture. The ICA has provided long-term advisory services in aquaculture and fisheries to Brazil, Colombia, Egypt, El Salvador, Honduras, Indonesia, Jamaica, Panama, the Philippines, and Rwanda; and short-term services to 76 countries.

Personnel

The staff consists of 40 professionals in the Department of Fisheries and Allied Aquacultures with several additional specialists from Auburn University Departments of Economics, Sociology, and Agricultural Economics and Rural Sociology, who collaborate and participate as appropriate on ICA programs both on campus and overseas. Approximately 80 percent of the staff have experience in fisheries and aquaculture work overseas.

Physical Facilities

Facilities include a modern three story building on campus with offices, research and training laboratories, and lecture halls. Located near campus is a 900-hectare fisheries field unit with approximately 600 experimental units having a total water surface of 100 hectares. Located near the ponds are service buildings, equipment storage buildings, feed and fertilizer storage, and large fish holding/handling building. A fish processing/technology laboratory, a fish nutrition laboratory, and a fish reproduction laboratory are also located on the area.

The ICA uses the Ralph Brown Draughn Library, the Library of Auburn University, which contains 1 million volumes and has interlibrary loan service.

Publications

ICA Communicae, a quarterly newsletter, is distributed gratis to 800 fisheries workers and alumni around the world. It is written in English and covers staff activities, alumni news, training and travel activities, as well as technical and research information. Direct subscription inquiries to the Director.

Progress reports of research, training, and extension of ICA international projects are available on request. Other research papers in aquaculture and fisheries and a publications list are available free of charge.

Research

Research is ongoing at pond research facilities at Auburn, where emphasis is on intensive aquaculture technology and related subjects such as selective breeding, nutrition, water quality, fish health, polyculture, etc. In ICA programs, focus is on adaptive research related to getting fish on the table with least cost and time inputs. ICA also provides research and technical services in lake and stream management areas such as fishery biology.

Training

Degree training programs include the B.S., M.S., Master of Aquaculture (non-thesis), and Ph.D. Also, an intensive aquaculture training program is offered annually at Auburn for participants from foreign countries who are involved in aquaculture-related activities in their home countries. The training program is of 16 weeks duration and usually begins in March. A training fee of \$2,000 is required, which includes costs of books, laboratory materials, basic medical service, and transportation during training. Personal living expenses averaging approximately \$700 per month are the responsibility of the student and are not included in the training fee. Facility in the English language is essential. Applications are considered in early January.

The ICA has a capacity for conducting short course training for aquaculture and fisheries programs in foreign countries and in different languages. Such programs have been carried out in Spanish in Colombia, Dominican Republic, Ecuador, Guatemala, Honduras, and Mexico.

Applications and inquiries should be addressed to the Aquaculture Training Program, Department of Fisheries and Allied Aquacultures.

Consulting Services

Technical services are provided on request to AID missions under the contract and at cost for private industry groups and other organizations. Usually short-term services are limited to 30 days or less, but often will involve a team of specialists representing various areas.

CAMP, DRESSER AND MCKEE

Project: Water and Sanitation for Health (WASH)

Project Director

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WASHAID

AID Project Officer

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Agency for International Development
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AID Project Number

931-1176

AID Contract Number

DPE-1176-C-00-0055-00

Objectives

The purpose of WASH is to provide AID personnel with centrally-funded interdisciplinary, professional technical assistance services to improve drinking water and sanitation projects, project components, and public health or rural development programs with a minimum of administrative effort and delay.

WASH is a major contribution of the U.S. Government and AID to the UN International Drinking Water Supply and Sanitation Decade 1981-1990.

Support available from WASH is primarily focused on rural and urban-fringe water supply and sanitation improvement, and includes general technical assistance, technology transfer, human resource development and training, and technical and development information.

History

Initially funded in November 1979, the WASH Project is managed by the Division of Community Water Supply and Sanitation, Office of Health, Bureau for Science and Technology (then the Bureau for Development Support), AID.

Camp, Dresser and McKee (CDM) became the prime contractor for the Project on August 29, 1980.

The WASH Project Coordination and Information Center was opened on September 2, 1980. From September 23, 1980, through March 31, 1983, it received 147 major requests for assistance in the categories of general technical assistance, training, transfer of appropriate technology, information, and international coordination. The fields of technical assistance included local manufacturing, water supply and sanitation (WS&S) engineering, health and community participation, and planning and procedures.

WASH has served 54 countries from September 1980 through March 1983:

<u>Latin America</u>	<u>Near East</u>	<u>Africa</u>		<u>Asia</u>
Bolivia	Egypt	Benin	Mauritius	Bangladesh
Brazil	Jordan	Botswana	Niger	Burma
Costa Rica	Lebanon	Burundi	Senegal	India
Dominican Republic	Morocco	Cameroon	Sierra Leone	Indonesia
Ecuador	Tunisia	C.A.R.	Somalia	Nepal
El Salvador	Yemen	Congo	Sudan	Pakistan
Guatemala		Gambia	Swaziland	Philippines
Guyana		Ghana	Tanzania	Sri Lanka
Haiti		Kenya	Togo	Thailand
Honduras		Lesotho	Upper Volta	
Panama		Liberia	Zaire	
Peru		Malawi	Zambia	
		Mali	Zimbabwe	
		Mauritania		

Personnel

The WASH Project will draw upon the entire water supply and sanitation resources of the United States and the AID developing countries to provide its services appropriately and economically.

Coordination and management of the Project is led by the four institutions described below, which comprise The CDM Associates.

- o Camp, Dresser and McKee (CDM): The largest consulting firm in the United States specializing in environmental engineering and related subjects, CDM provides overall management of the Project as well as expertise in technical and engineering areas.
- o International Science and Technology Institute (ISTI): ISTI supplies technical and managerial guidance in the adaptation, transfer, local manufacture, and maintenance of water supply and sanitation technologies.
- o Research Triangle Institute (RTI): RTI provides managerial and technical expertise in the WASH Project in social sciences, public health, economics, survey research, data management, and statistical analysis.
- o University of North Carolina (School of Public Health): The School's Department of Environmental Sciences and Engineering provides expertise in sanitary engineering, public health, environmental health, economics, training, and social sciences.

In addition:

- o Georgia Institute of Technology Engineering Experiment Station supplies expertise in developing and coordinating laboratory and field research and development, testing, and demonstration of improved, low-cost, appropriate technology devices for use and manufacture in developing countries.

- o University of Maryland, International Rural Water Resources Development Laboratory, maintains and operates laboratories, workshops, and a demonstration area and storeroom in support of WASH and Georgia Tech activities in research and development on appropriate technologies in water supply and sanitation.

The staffs and faculties of these organizations include nearly all academic, engineering, educational, and social development disciplines, skills, and experiential backgrounds relevant to water supply, sanitation, and environmental health. Where particular skills are unavailable, WASH has built up a roster of individual consultants and organizations that can be called upon for assistance.

Physical Facilities

The Coordination and Information Center, which is the headquarters of the WASH Project, also has a Library, conference room, and office space for visiting consultants. The office is equipped with a DEC WS212 word processing/computer system with two terminals and telephone communications link to CDM headquarters in Boston, Massachusetts, which has a large DEC 20 computer system. The office also has a mobile Apple II mini-computer system available for WASH office or field applications. IBM Personal Computers are on order. WASH staff are able to communicate rapidly with field sites overseas through the use of international cable, telex, and telecopier capabilities.

Library

The WASH Library has a rapidly growing collection of about 2,000 reports, books, and other documents relating to all aspects of water supply, sanitation, and environmental health, as well as relevant training, community development, and technology transfer publications. This material has been entered into the computer for search and retrieval. The collection is designed for the use of AID personnel, AID-sponsored organizations or individuals, WASH staff and consultants, AID clients visiting Washington, and the relevant international research community. Requests for information should be sent to Information Director, WASH Project.

Information Exchange

The WASH Information Center is actively involved in information exchange with the major public and private organizations involved in the United Nations International Drinking Water Supply and Sanitation Decade (1981-1990). Materials exchanged are primarily project reports with great emphasis on the so-called "fugitive literature" in water supply, sanitation, etc. English is the primary language. There are no charges for available materials. Otherwise requestors are referred to appropriate sources. WASH is working closely with the International Reference Center for Community Water Supply and Sanitation, The Hague, which has established PUETRI--Programme on Exchange and Transfer of Information--under WHO and UNDP auspices. PUETRI is the international information network for the Water Decade.

Publications

WASH does not publish a newsletter, but contributes to other newsletters and prepares project reports for AID and other approved clients. Periodic WASH Progress Reports and publications lists update the status of WASH major activities and are circulated worldwide.

Requirements and Criteria

WASH services are available to AID missions, Regional Bureaus, and central offices through the Office of Health. Missions and Regional Bureaus may request WASH assistance on behalf of:

- o mission programs;
- o host government organizations;
- o other host country organizations;
- o Peace Corps;
- o international/multilateral programs;
- o private voluntary organizations.

All requests for technical assistance must be approved, requested, and sponsored by AID organizations in the field or by an AID/Washington Regional Bureau, and addressed to the AID WASH Project Manager for approval.

A concise operational description of the WASH Project and how to use it is contained in the official WASH Project Brochure. This document is available free to organizations and individuals on request.

A summary of WASH work which illustrates the scope, nature, and diversity of technical services supplied to AID is also available in the WASH Project Progress Report Number 5 of March 31, 1983.

CENTER FOR DEVELOPMENT AND POPULATION ACTIVITIES (CEDPA)

Project: Nutrition Management Project

Popular Name: Women's Management Training

Project Director
Peggy Curlin

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Cable Code
CEFPA

AID Project Officer
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Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-1010

AID Grant Number
AID/DAN-1010-SS-1033-00

Objectives

The Project is developing training and technical assistance strategies that will enable female managers from developing countries to plan, carry out, and evaluate nutrition interventions. Training modules will be developed and field tested in training workshops in five to seven countries. Modules focus on management of growth monitoring, breast-feeding promotion, home production of weaning foods, oral rehydration therapy, and immunization and community financing. CEDPA will also conduct a management study to identify the issues and mechanisms associated with the successful introduction of nutrition interventions through ongoing programs.

History

Two Nutrition Management Training Modules have been developed: one for field extension workers, the other for women community leaders. Both were field tested in 1982-83 training workshops in Kenya and Washington, DC. The modules will be used in additional training programs in Nepal, Peru, Dominican Republic, and Francophone Africa. The Project is collaborating with a variety of government and grassroots development organizations, and depends upon the active involvement of CEDPA's Women in Management training network.

Personnel

The eight staff members have skills in nutrition, primary health care, community development, and management, and language fluency in French, Portuguese, Spanish, and Hindi.

Physical Facilities

Conference rooms and training facilities.

Library

Approximately 200 volumes on management, training, health, nutrition, population, and development have been collected in a small library.

Information Exchange

Information will be provided to anyone on request. Final reports of training workshops and brochures are available. The final Project Report and nutrition management training modules will be distributed at the close of the project. Inquiries regarding CEDPA's network of women in nutrition projects in developing countries are welcome at CEDPA's Washington address.

Training

CEDPA offers two five-week training series designed for mid-level managers from developing countries. Workshops in the series entitled "Women in Management" and "Supervision and Evaluation as Management Tools" are held in Washington, DC, annually. A schedule is available upon request. Two-week "Women in Management" courses are also sponsored in collaborating countries. These courses cover project development in health, nutrition, family planning, and income generation. The Nutrition Management Project will offer two-week, in-country workshops addressing specific nutrition problems and project components. These workshops will be held in five to seven countries with collaborating local agencies.

COLORADO STATE UNIVERSITY

Project: Utilization of Tissue Culture to Increase Food Production

Project Director
Dr. Murray W. Nabors

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AID Project Officer
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Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
936-4055

AID Contract Number
AID/DSAN-C-0273

Objectives

- o To increase food production by using the efficiency of tissue culture to obtain rapidly varieties of food crop plants with specific resistances to soil, water, or temperature stresses. Such plants will be genetically designed to grow without expensive environmental modification (desalination, liming, irrigation, etc.) and can thus increase production while decreasing energy and resource use. They will be tailor-made for specific environments and will be particularly appropriate for incorporation into the agricultural framework of a developing nation.
- o To incorporate tissue culture methods into traditional plant breeding programs so that the remarkable compression of time and space requirements characteristic of cell culture methods can similarly shorten the time, reduce the space, and lessen the cost involved in obtaining altered varieties of plants.

History

The Project started in September 1980. Tissue cultures of several varieties of wheat, rice, millet, and oats have been established. Regeneration methods are under development for all plants and are proceeding on schedule for all plants. Selection for salt, aluminum, and drought tolerant strains has begun for all plants.

Personnel

At present the Project involves two Ph.D.s, six technicians with B.S. degrees, and five hourly personnel. All Project participants are well trained in biological laboratory and tissue culture techniques.

Physical Facilities

The Project has a tissue culture and sterile culture facility as well as general lab space. A culture and plant growth room is available. The University

has a Library of one million volumes, a TV and radio studio, conference rooms, and a computer center.

Information Exchange

An information exchange and mailing list is being developed. Project reports will be published twice yearly in English and will be available at no charge to organizations and individuals on the mailing list. Inquiries should be addressed to the Project Director.

Publications

Tissue Culture for Crops is published twice yearly in English. It is sent to some 500 plant breeders, agriculturalists, soil scientists, and government officials. Inquiries should be addressed to the Project Director.

Research

The entire Project is a research activity directed toward producing stress-resistant crop plants by use of tissue culture methods. The goal of the Project is to produce results which are ready for application in developing countries.

Training

Some funds are available for training of graduate students or post doctoral students in tissue culture methods. Address inquiries to the Project Director.

Consulting Services

Short-term consulting services for development of tissue culture facilities are available if travel costs are paid.

COLUMBIA UNIVERSITY
CENTER FOR POPULATION AND FAMILY HEALTH (CPFH)

Project: Operations Research for Family Planning and Health Programs

Project Director
Dr. Donald Lauro

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AID Project Officer
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Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
932-0855

AID Contract Number
AID/DSPE-CA-0043

Objectives

The CPFH provides short-term and long-term technical assistance to family planning programs in developing countries in the development, implementation, and evaluation of operational research projects. Particular emphasis is placed on innovative methods of delivering services, community-based distribution of contraceptives and health supplies, and wider use of paramedical personnel. CPFH maintains resident advisors in Brazil, Haiti, Nigeria, Sudan, Tanzania, and Thailand, and provides technical assistance to projects in Bolivia, Burundi, Sri Lanka, and Togo.

Personnel

The CPFH staff includes professionals with a broad range of training and experience, including medicine and public health, program management, service statistics, anthropology, sociology, demography, survey methodology, law and social work. Language capabilities, in addition to English, include Arabic, French, Haitian Creole, Portuguese, Spanish, and Thai.

Library/Information Exchange

The Library/Information Program of the CPFH was established in 1968 to collect and disseminate literature on family planning program design, development, and evaluation, as well as on related topics such as primary health care delivery systems.

The Library houses over 16,500 published and unpublished documents, 3,000 monographs, and over 180 foreign and domestic periodical titles and newsletters. The CPFH Library collection has extensive literature on the social, behavioral, and operations research aspects of population studies.

Documents in the Library collection are indexed, abstracted, and entered into POPLINE (POPulation information onLINE); a computerized bibliographic information retrieval data base made available within the MEDLARS system of the U.S. National Library of Medicine. POPLINE is jointly maintained by the CPFH Library/Information Program, the Population Information Program of the Johns Hopkins University, and Population Index of Princeton University.

The CPFH Library supplies POPLINE literature searches, reference services, and documents free of charge to requestors from developing countries or those affiliated with developing country-related or international population organizations. Library assistance can be obtained by writing to Library/Information Program, CPFH.

Research

Research is conducted to implement and evaluate new approaches to providing family planning and health care. Research-oriented services include community based distribution of contraceptives and health supplies and wider use of paramedical personnel.

Costs

The cost of salaries, per diem, and international travel of CPFH consultants are covered under the AID contract. Host country administrative costs such as secretarial service and local travel normally will be at the expense of the host institution.

CONSORTIUM FOR INTERNATIONAL CROP PROTECTION (CICP)

Project: Project in Pest Management and Related Environmental Protection

Project Director
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CONSORTICP

AID Project Officer
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Agency for International Development
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AID Project Number
931-0930.11

AID Contract Number
AID/DSAN-C-0252

Objectives

The Consortium for International Crop Protection (CICP) includes 10 U.S. universities and the U.S. Department of Agriculture, whose main commitment is to utilize their combined expertise to provide the manpower pool for training and technical assistance to developing country personnel in pest and pesticide management through planning, developing, and implementing plant pest and disease control programs, and minimizing human health hazards and other adverse environmental impacts. CICP's specific objectives are:

- o to increase and disseminate knowledge and understanding of integrated pest management and the economic, social, and educational aspects of international crop protection;
- o to promote a coordinated interdisciplinary approach toward improving pesticide management programs through utilization of combined expertise of medical, nutritional, and agricultural sciences;
- o to develop and maintain an overview of crop protection needs and problems in developing nations with the objective of anticipating potential damaging pest outbreaks;
- o to cooperate in developing relevant educational programs consisting of academic credit and noncredit courses, seminars, conferences, and visiting lectureships, and to provide mechanisms for exchange of students, staff, or academic credit between and among international institutions and organizations; and
- o to provide professional consultants to assess, evaluate, and implement specific crop protection programs, to improve coordination among programs, and to enhance program technical excellence.

History

CICP was established in 1978 as an outgrowth of the University of California/AID Project in Pest Management and Environmental Protection. Representatives of the member institutions comprise its Board of Directors. It is not a granting agency, but is partially supported by AID through grants and contracts.

Personnel

CICP maintains a computerized personnel data bank of over 500 names to identify technical expertise in a given discipline, language capability, experience, or geographical region. Scientific skills include entomology, plant pathology, weed science, nematology, vertebrate control, public health, extension/communications, agricultural economics, and other disciplines related in any way to integrated pest management and agromedicine. CICP member institutions, nonmember institutions, and CICP core technical staff comprise these personnel resources.

Physical Facilities

CICP is located in a nine-room facility in Berkeley, California, which includes a comprehensive plant protection library and conference room. Computer facilities at the University of California are available through a CICP/UC subcontract on the premises. A TV/videotape monitor is available on the premises for use in the activities of CICP projects.

Library

CICP has a Library of literature emphasizing international crop protection in developing countries of Africa, Southeast Asia, and Latin America to provide background support for project activities to CICP personnel, consultants, and graduate students, with limited services to the general public on request. A comprehensive library of 35 mm color slides is being developed, which will be used in CICP's training activities. Videotapes on selected topics on pest management are being developed for use by CICP member institutions, AID, and consultants and collaborators involved in training and technical assistance activities administered by CICP and AID. All inquiries may be addressed to the Executive Director at CICP headquarters.

Publications

CICP publishes the Pest Management News, a newsletter published quarterly in both English and Spanish (with a French version to be added) and distributed free of charge to about 3,200 individuals, agencies, and institutions, in 150 countries, reporting on a range of topics related to pest management. It also includes a calendar of forthcoming training courses, conferences, and other meetings. In addition, CICP publishes a quarterly list of conferences which is widely distributed free of charge to workers in pest management.

CICP also maintains a file of proceedings of seminars and workshops, short courses, etc., and numerous other topics related to pest management, which are available usually at no cost on request. These publications are also distributed to AID missions and to personnel in developing countries. Some are

translated into both Spanish and French. Availability of these publications is announced in the Pest Management News. Inquiries may be addressed to the CICIP Executive Director.

Research

When requested by AID missions, CICIP consultants and staff can assist and advise developing country institutions in the development and operation of research related to plant protection and pesticide management.

Training

Training is adapted to the needs of various audiences in developing countries --extension workers, research technicians, agricultural and health officials, government regulators, pest control operations personnel, and others.

The noncredit short courses (generally two to three weeks in duration), seminars and workshops (generally one week), and conferences (one week or less) are conducted collaboratively with the developing country institutions and/or international organizations such as AID, or one of the international agricultural research centers. Some of these courses focus on regional problems and may involve trainee representatives from countries of a given region. Some of CICIP's training activities are designed specifically for a given country or, occasionally, even a given institution. Procedures for organizing the training activities and selecting trainees and trainers vary, depending on the objective of the particular training activity. Specialists at the CICIP member institutions, outside consultants to CICIP, and specialists at the developing country institutions and various international institutions serve as the trainers. These training programs are conducted in English, Spanish, and French, with local interpreters and translators provided by the in-country management.

Consulting Services

Both short-term and long-term consultants are recruited from CICIP member and non-member institutions and from the computerized personnel data bank. Travel and transportation, as well as consultant fees, are paid by CICIP with project funds from AID. Developing country travel and support services may be paid by CICIP or shared with the developing country and/or AID mission, according to prearrangements made through AID/Washington.

Conferences

Conferences related to pest and pesticide management in developing countries can be developed. Inquiries should be directed to Executive Director of CICIP.

Requirements and Criteria

The Consortium is interested in assisting the development of improved pest and pesticide management in all its ramifications in the developing world. Specific arrangements are subject to the approval of AID/Washington and the local AID missions.

DENVER WILDLIFE RESEARCH CENTER (DWRC)

Project: Pre/Postharvest Bird and Rodent Control

Project Director
John W. DeGrazio

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AID Project Officer
Dr. Harlan Shuyler
Office of Agriculture
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
936-4120

AID Contract Number
PASA BST-4120-P-IF-3028-01

Branch Offices
Dhaka, Bangladesh
Port-au-Prince, Haiti
Los Banos, Philippine

Objectives

The Denver Wildlife Research Center is a major research facility of the U.S. Fish and Wildlife Service. Its purpose is to provide information necessary for the intelligent management and conservation of the nation's wildlife resources. Established in 1940, the DWRC now employs approximately 150 scientists, technicians, and support personnel. Research activities emphasize two of the Service's major concerns: (1) protecting wildlife from the adverse effects of man's continual modification of the land; and (2) reducing the damage wildlife causes to agriculture, forests, industry, or other areas of human activity.

Recognizing the adverse impact of vertebrate pests on agricultural development, in 1967 AID and DWRC launched a cooperative effort to reduce preharvest and postharvest losses. The vertebrate pest control specialists of DWRC work with host countries and AID missions through in-country programs and outreach activities.

The objective of the Project is to increase the available food supply throughout the world by protecting agricultural crops and stored grain from damage from vertebrate pests. Assistance is provided in the form of research, technical consultation and assistance, and the provision of information services.

Because of the importance and magnitude of the problem, the AID/DWRC Project cooperates and collaborates in appropriate research and training with other organizations such as the Center for Overseas Pest Research (COPR), United Kingdom; Office de la Recherche Scientifique et Technique d'Outre-Mer (ORSTOM), France; Deutsche Gesellschaft fur Technische Zusammenarbeit (GTZ), Federal Republic of Germany; FAU and WHO of the United Nations.

History

In-country projects have been established during the past 15 years in the following countries:

- o Mexico--vampire bat control techniques were developed;
- o Tanzania and Sudan--control of quelea damage to crops was studied;
- o Colombia--bird control and rodent control were studied;
- o Philippines--methods for controlling rodent damage to rice, corn, and coconuts were developed;
- o Bangladesh--methods for controlling bird damage to wheat and deep water rice are being developed; and
- o Haiti--methods for controlling rodent and bird damage to corn, sorghum, and rice are being developed.

The vampire bat project in Mexico was ended in 1973, when techniques for control were developed. Projects are active in the Philippines, Haiti, and Bangladesh. A bird and postharvest storage project has been proposed to begin in Pakistan this year.

Personnel

Eighteen of DWRC's scientists are assigned directly to this Project. They specialize in wildlife biology, electronics, chemistry, physiology, behavior, statistics, and pharmacology. There are ten technicians and three secretarial and administrative staff.

Physical Facilities

The Project has a Library, laboratories, a conference room, word processors, computers, and animal pens.

Library and Information Exchange

The Library has an undisclosed number of publications on the biological sciences. Center publications are available to everyone. There is no charge for use of the Library. Interlibrary loans are available to other libraries. The Library provides some information exchange services. Inquiries about publications and services available should be sent to the Library, DWRC, at the address above.

Publications

The Project publishes an annual report, Vertebrate Damage Control Research in Agriculture. This is a technical report in English distributed free of charge to approximately 2,000 individuals, including officials of international organizations.

Research

The Project's research centers on management of vertebrate pests. Center scientists at Denver and overseas field stations are developing methods for reducing severe agricultural damage by a variety of rodents, birds, and vampire bats in Latin America, Africa, and Asia. The international programs are designed not only to develop and test appropriate technology for reducing animal damage in developing countries, but also to train scientists of the host countries in this specialized type of research and management.

Center chemists continue to develop new analytical methods to identify and measure the many chemical substances that may be present, often at very low concentrations, in wildlife, their food, and their environment. Electronic specialists develop and improve designs for specialized equipment such as field event counters and radio telemetry transmitters large enough to track polar bears or tiny enough to be carried by small birds, such as the quelea.

Training

Training varies from short, informal workshops and seminars to long-term programs leading to graduate degrees at three universities in the United States: Bowling Green State University (Ohio), Colorado State University, and the University of California at Davis. Graduate study is also available at the University of the Philippines, Los Banos. English is required; tuition, fees, and accommodation costs are set by the universities.

Consulting Services

Short-term and long-term consultations are available in vertebrate pest management for developing country organizations or individuals concerned with vertebrate pest problems. Inquiries may be sent to DWRC at the address above or to local AID missions. All costs are borne by the requesting organization or individual.

Other Services

The following data bases are available at cost: mailing list of those receiving the Vertebrate Damage Control Annual Report and several in-house bases concerned with predators and birds. DWRC can provide on request computerized literature searches on specific problems. Copies of relevant documents can be supplied without charge to pest management personnel in developing countries.

Conferences

Several conferences on vertebrate pest management have been held in the United States. There are conference fees charged. Inquiries should be sent to DWRC at the address above.

Requirements and Criteria

Potential users of the Project's services must be working actively or concerned directly with vertebrate pest damage problems in developing countries.

DEVELOPMENT ASSOCIATES, INC. (DA)

Project: Family Planning Training for Paramedical, Auxiliary, and Community Personnel in Latin America and the Caribbean (LAC-PAC))

Popular Name: Latin America Family Planning Training

Project Director
Edward S. Dennison

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(703) 979-0100

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Cable Code
DAWASH

Project Branch Office
Bogota, Colombia

AID Project Officer
Charlotte Ureksoy
Office of Population
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
932-0644

AID Contract Number
DPE-0000-C-00-0042-00

Objectives

- o To train, over a five-year period, a minimum of 18,585 family planning personnel in the categories of paramedical, auxiliary, and community workers (PAC), supervisors/managers, social workers, organization leaders, and top government officials throughout Latin America and the Caribbean (LAC) in a wide variety of family planning, clinical, managerial, and program support skills.
- o To provide technical assistance to public and private training organizations in curriculum development, course design, materials preparation, and training evaluation. Most of the training is given through subcontracts with host country or third country agencies.
- o To include in the above training, where feasible, a nutrition component focusing on breast-feeding promotion, proper weaning practices, and improvement in maternal nutrition.

History

The Project, under the first of three AID contracts, was started in April 1972 with the goal of training 100 participants per year, mostly in the United States. Since then, DA has provided training for over 90,000 persons throughout Latin America and the Caribbean. Whereas in the Project's first program year, 60 percent of the participants received training in the United States or Puerto Rico, this percentage has decreased to less than one percent.

Personnel

The Project is staffed with eight professionals, all of whom have extensive administrative and management skills and working experience in Latin America and the Caribbean. Additionally, the professional project staff have skills

in clinical family planning training, evaluation, planning, organizational development, educational materials development, curriculum development, and training design.

Physical Facilities

Office space of 23,000 square feet; a Library; two conference rooms for up to 100 participants; a print shop; a Wang wordprocessing system; a telecopier; a WATS line; a Sprint network; a Decwriter II; a Hazeltine 1410; and an Apple III and an Apple IIE with software handling a variety of functions.

Library

The Library has about 15,000 volumes on education, economic development, nutrition/public health, family planning/population development administration, urban/regional planning, and various other social issues. The Library is primarily for staff use. It is connected to the interlibrary loan system.

Training

This paramedical Project provides training of PAC and other personnel both directly and through subcontracts with host country or third country training agencies. Courses, seminars, and workshops range in length from one day to ten weeks. Level of training ranges from community educators and distributors in massive community-based contraceptive distribution (CBD) programs, and the training of traditional birth attendants in patient education and motivation, to clinical skills training of nurses and nurse-midwives, in techniques such as IUD insertion. Training is in Spanish, Portuguese, French, or English. Generally, participants in courses of several weeks duration receive a certificate attesting to the successful participation in a specific training program. DA pays all participant costs from contract funds.

Consulting Services

Development Associates provides advisors/experts, designers, evaluators, and facilitators to training providers with whom it subcontracts or is likely to subcontract for family planning training. DA pays all costs from contract funds.

Conferences

As part of the Project, DA arranges conferences for family planning service and training providers throughout Latin America and the Caribbean on topics such as "Alternatives to U.S. Training for Family Planning Administrators and Managers," "Utilization and Training of Traditional Birth Attendants in Family Planning Programs," "Training of Family Planning Trainers." Occasionally participants are sponsored to attend appropriate international conferences. Participation is by invitation only.

Requirements and Criteria

Any governmental or private agency with a viable family planning program and in need of personnel training is eligible for the Project's services, depending on availability of funds and priorities.

EDUCATION DEVELOPMENT CENTER (EDC)
INTERNATIONAL NUTRITION COMMUNICATION SERVICE (INCS)

Project: Nutrition: Education and Improvement of Maternal and Infant Dietary Practices

Project Director
Ron Israel

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Telex Code
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Cable Code
EDC NEW

AID Project Officers
Dr. Jean Audrey Wight
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Office of Nutrition
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-1010

AID Contract Number
AID/DSAN-C-0209

Objectives

INCS provides technical assistance to nutrition/nutrition education projects. It responds to requests from government ministries, international agencies, and non-governmental organizations. INCS also provides reference materials for projects in the field, such as country nutrition data profiles and catalogues of exemplary nutrition education materials.

History

In four years the project has provided technical assistance in nutrition education to 27 countries in Africa, Asia, Latin America, and the Near East:

- o maternal and infant nutrition workshops for health professionals (Fiji, Kenya, Sierra Leone, Columbia, Panama, Costa Rica, Indonesia, and Nepal);
- o the design of surveys to assess the determinants of infant feeding (Cameroon, Bolivia, Congo, and El Salvador);
- o primary and secondary school curriculum development (Bolivia and Honduras);
- o medical school curriculum development (Costa Rica);
- o training of field workers in nutrition (Honduras);
- o workshops in participatory approaches to nutrition education (Guatemala and the Philippines);
- o the First Asian Household Nutrition Appropriate Technology Conference (Sri Lanka);

- o evaluations (Chile, Jamaica, Costa Rica, and Zaire); and
- o materials development workshops (Peru and Sierra Leone).

Personnel

INCS has an interdisciplinary consultant roster consisting of experts in nutrition, public health, epidemiology, nutrition planning, anthropology, social marketing, advertising, nonformal education, statistics, data analysis, and appropriate technology. The Project draws on the resources of its two subcontractors, Manoff International and Save the Children, as well as institutions represented on our Advisory Board--the School of Public Health at the University of California at Los Angeles, La Leche League International, and the Lactation Program of San Diego.

Library

The International Nutrition Education Library houses a reference collection of mass media and support materials, training manuals, school curricula, baseline surveys, case studies, consultant reports, and other material related to topics in nutrition education, maternal and infant nutrition in developing countries, and breast-feeding. The Library is open to the public Monday through Friday, 10:00 A.M. to 5:00 P.M. It also offers a correspondence reference service for those interested in information on nutrition education materials, projects, and policies. Written requests will be answered with appropriate listing and referrals to sources of procurement. Materials are not disseminated directly.

Information Exchange

INCS publishes catalogues that review exemplary nutrition education materials, e.g., training manuals, mass media, and support materials. Examples of INCS publications:

- o Maternal and Infant Nutrition Reviews: profiles of mother and child nutrition status, beliefs and practices, programs and policies in 31 developing countries;
- o Nutrition Training Manual Catalogue: a guide to more than 100 of the best training manuals in nutrition that have been developed for use in developing countries;
- o "A Breast-feeding Counselor's Curriculum" (in conjunction with the CALMA project in El Salvador);
- o A Manual on Participatory Approaches to Nutrition Education (to be published in conjunction with Save the Children Federation);
- o Proceedings of the First Asian Household Nutrition Appropriate Technology Conference (in conjunction with UNICEF);
- o "A Nutrition Education Compendium" (to be published in 1983);
- o INCS Consultant Reports from over 23 countries;

- o "An Anthropological Approach to Nutrition Education:" a concept paper by Mark and Mimi Nichter; and
- o A Guide to Mass Media and Support Materials in Nutrition Education in Developing Countries.

Other Services

There is a data bank on maternal and infant nutrition status in 34 AID countries; address inquiries to Ron Israel, Director.

Consulting Services

INCS provides short-term consultants to assist government ministries, international agencies, AID missions, and private voluntary agencies. Assistance is focused on the design, implementation, and evaluation of nutrition education projects.

EQUITY POLICY CENTER (EPOC)

Project: Street Foods

Principal Officer
Irene Tinker, Director

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Project Director
Monique Cohen, Ph.D.

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440075/440175

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Cable Code
EPOC WASHINGTON DC

AID Project Officer
John Hourihan
Office of Women in Development
Bureau for Program and Policy Coordination
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
930-0200

AID Contract Number
OTR-0200-G-S5-1255

Objectives

The original objective of the study was to collect information on the preparation, sale, and consumption of street foods in provincial towns in Bangladesh, Indonesia, the Philippines, and Senegal. The Project has been expanded to seek identification of the means to enhance the entrepreneurial opportunities for urban women and the nutritional contribution of street foods to the household diet.

The Project combines a research component and a technical assistance component to design interventions intended to improve the economic role of women involved in the street foods trade and to improve the nutritive value of the foods they sell.

History

The Street Foods Project began in September 1981 with funding from AID's Office of Women in Development. In the intervening period, the Project has been expanded geographically and conceptually. Initially funded for Bangladesh and Senegal, the study now includes Indonesia and the Philippines. The development of working relationships with host country institutions has been important to the implementation of the Project. These relationships have included the formation of a consultative committee in the Philippines, with members who work in city and regional government as well as in research institutions and universities; the Project's sponsorship by the Ministry of Social Welfare and Women's Affairs in Bangladesh; and sponsorship by the Institute of Development Studies in Indonesia.

Personnel

There are a Project Director in Washington and a Country Director in each of the Project countries. Each country project employs four to eight local staff and consultants.

Library and Information Exchange

EPOC's Library contains 6,000 volumes on women and development issues/policy, agriculture, rural and regional development, employment and work, urban development, natural resources, education and training, communication and networks, energy, science and technology, health, population and family planning, refugees, and children. The Library is open to anyone interested in development issues. There is no charge for its use. EPOC works within an informal worldwide network of organizations and individuals interested in women in development (WID).

Publications

Project Notes are published in English occasionally. These Notes are sent to government officials, researchers, and development practitioners. Inquiries should be sent to EPOC at the address above.

Research

The focus of the Project is street foods in urban areas of developing countries and the nature of their presentation, sale, and consumption. The application of the results will be proposed methods of improving the income of street food vendors and the design of projects that will lead to an improvement in the nutritional quality of street foods and the conditions under which they are prepared. With its particular focus on the role of women the Project will provide important insights on the income-generating opportunities for poor urban women. Drawing on the Project's experience of working with indigenous research institutions and both domestic and international private voluntary organizations (PVOs), the Project will be able to provide technical assistance to such organizations in developing programs affecting women and the informal sector, particularly those subsectors involved in food processing and sale. Field sites are Ziguinchor, Senegal; Ilo-Ilo City, the Philippines; Bogor, Indonesia; and Manikganj, Bangladesh.

Training

In all countries the Project involves the training of local researchers in social science research and data collection techniques. At the end of each country project, seminars are presented in the urban research site and the capital. These workshops are attended by local and central government officials, as well as members of indigenous and international donor agencies. In Asia, a workshop is being co-sponsored by EPOC which brings together representatives of local and central governments concerned with aspects of street foods as well as regional academic and professional employees, such as nutritionists, from specialized institutes.

Conferences

The end of the Street Foods Project will feature an international conference to be held in Washington, DC. It will bring together EPOC field and Washington-based staff, representatives from AID, and officials from FAO and other international agencies who have expressed interest in the Project. Interested persons wishing to attend or to participate should write to EPOC at the address above.

FAMILY HEALTH INTERNATIONAL

Project: Family Health International (FHI), formerly International Fertility Research Program (IFRP).

Project Director
Dr. Malcolm Potts, President

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Telex Code
579442 FHI RPTK

Branch Office
Accra, Ghana

AID Project Number
932-0537

AID Project Officer
Dr. James Shelton
Office of Population
Bureau for Science and Technology
U.S. Agency for International Development
Washington, DC 20523 U.S.A.

AID Contract and Grant Number
DPE-0537-C-00-1028-00

Objectives

FHI seeks to improve the health and well-being of families throughout the world by increasing the safety, effectiveness, acceptability, and ease of use of family planning methods and by improving the delivery of family planning and primary health services.

Family Health International conducts clinical trials of new and improved methods of fertility control, evaluates delivery systems, and supports a program of contraceptive safety and health research. FHI disseminates the results of its studies to physicians and policy makers and transfers the technology on contraception research and data processing to practitioners and programs on six continents.

History

Family Health International was founded in 1971, and was first known as the International Fertility Research Program (IFRP). During its early years, FHI concentrated exclusively on the evaluation of new contraceptive technology. In time, requests for assistance in other areas--to monitor hospital maternity services and to evaluate outpatient surgical services or community-based public health programs--moved FHI to study broader health-related issues.

FHI also assists hospitals and health care centers in making better use of their resources to provide the best possible health services. FHI trains doctors, nurses, and other providers of health care to improve their ability to study health problems, devise appropriate solutions, and improve their programs.

Personnel

FHI personnel include physicians, epidemiologists, demographers, biostatisticians, computer scientists, and other related personnel who have worldwide experience in health and family research and program management.

Physical Facilities

FHI is located in its own 22,000 square foot building in Research Triangle Park, North Carolina. Facilities include ample office space; a Library; conference rooms; a Burroughs computer large system; Texas Instruments mini- and microcomputers; integrated word processing, graphics, and photo-typesetting equipment; a laboratory workshop; and eating facilities.

Library

The Library has over 2,000 monographs, 1,800 reports, and 350 serials on obstetrics and gynecology, population, health, family planning, and research methods. Special services include interlibrary loans and automated retrieval service. FHI's Library provides services through computerized retrieval systems such as MEDLINE (Medical Literature On-Line Information Service) and DIALOG. The Library is open without charge to FHI staff, associate investigators, and interested private citizens. Inquiries should be sent to the Library.

Information Exchange

FHI publications are free on request and can be exchanged with other institutions. All FHI publications are available in English; some are also available in French and Spanish. FHI is a member of the Association of Population/Family Planning Libraries and Information Centers International. There is no restriction for FHI publications. Inquiries should be sent to the Library.

Publications

An illustrated quarterly, NETWORK, reports on current research in the health and population field and updates programmatic activities being carried out around the world. Six thousand copies are sent free to ministries of health, population and health program managers, medical schools, research institutions, and individuals around the world. Subscription inquiries should be sent to NETWORK, Publications Unit.

Other Services

Data, frequently recorded on standard forms to make inter-country comparisons possible, are received from an international network of physicians in developed and developing countries.

The data base contains over 500,000 entries and is increasing by 100,000 entries each year. It provides a central source of information on the safety, effectiveness, and acceptability of fertility control methods under actual use conditions. FHI-supported investigators receive standard analysis of their data. Pooled data are provided to other appropriate agencies on request. Data are available on female sterilization, male sterilization, IUDs, systemic contraception, and barrier contraception.

Data collection instruments, manuals, and protocols (in Arabic, Farsi, French, Italian, Portuguese, and Spanish) are available on request. Further information can be requested from FHI's President.

Research

FHI supports research on the safety, effectiveness, side-effects, and cost as well as the health and demographic impact of available contraceptive methods. Considerable effort is also devoted to the development of new contraceptive methods and the improvement of existing ones. Studies are designed, implemented, monitored, and reported on by FHI research staff in cooperation with an international network of biomedical and health researchers. Large quantities of data amassed by FHI on contraceptive safety and effectiveness are used to identify and evaluate risks and benefits of particular methods. The results from the clinical research conducted by FHI may be readily applied to the field situation. The results from FHI-sponsored projects have frequently been used to improve the quality of contraceptive services provided by family planning and other programs in developed and developing countries.

In addition, FHI has amassed over 500,000 records of maternal care, delivery, and breast-feeding practices throughout the developing world, providing information on the sociodemographic characteristics, obstetric history, labor and delivery, the outcomes for mother and infant, and resources used in the maternity care service.

FHI works cooperatively with over 80 active investigators in developing and developed countries, working in almost 150 private and public clinics, hospitals, and family planning programs. The following services are provided to these investigators as part of the collaboration between the investigators and FHI: data analysis, technical reports summarizing the study results, literature searches and reprints of articles, and technical and editorial assistance in the preparation of research papers.

FHI does not charge developing country investigators for the services provided. FHI also conducts contract research with pharmaceutical and business firms. FHI services may be utilized by any private or public organization. Inquiries should be sent to the President.

Training

FHI provides support for seminars and short training courses emphasizing health, family planning, and contraceptive technology for research scientists, policy makers, and service providers. FHI staff are available for setting up workshops in: Methods of Fertility Control; Medical Training; Contraceptive Procedures; Design of Research and Service Programs; Provision of Family Planning and Health Services; Design and Implementation of Survey Research; Analysis of Data from Research and Service Programs; and Evaluation of Family Planning and Maternity Services. Support may also be provided for developing country professionals to attend training organized by other organizations. Inquiries should be sent to the President.

Consulting Services

Members of FHI's staff frequently serve as consultants and provide technical assistance to programs in the United States and overseas. Consultancies may be sponsored either by FHI or by another organization. Among the areas in which FHI has provided consultants are contraceptive services, program evaluation, data processing, contraceptive development and research methods, as well as budget and financial management.

Funding and Criteria

Grants are provided to developing country organizations for biomedical research to transfer or improve research skills, to conduct research on family planning users' perspectives, barriers to contraceptive acceptance and continuation, and for other programmatic and evaluation studies. Funds for training, conferences, and seminars focus on health and family planning.

THE FUTURES GROUP

Project: International Contraceptive Social Marketing Project (ICSMP)

Project Director
Betty Butler Ravenholt

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AID Project Officer
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Bureau for Science and Technology
Agency for International Development
Washington, DC 20534 U.S.A.

AID Project Number
932-0611

AID Cooperative Agreement Number
AID/DSPE-CA-0087

Objectives

- o To provide technical assistance and support funding for the development of new contraceptive social marketing (CSM) programs.
- o To provide financial and technical assistance for enhancement of existing CSM programs.
- o To promote information exchange and network-building among CSM practitioners.

History

Since the Cooperative Agreement was signed in October 1980, several country feasibility studies and market plans have been prepared towards the implementation of new CSM projects in Latin America and Asia.

Personnel

Four full-time management/administrative personnel; and 20-30 consultants experienced in marketing, law, demography, project planning and development, and program evaluation.

Physical Facilities

One conference room, CSM Library/resource center, and a minicomputer (Apple II).

Library

Resource materials in the Library include approximately 1,000 reports and publications on CSM research, program evaluations, marketing plans, as well as advertising, packaging materials, marketing research, and contraceptive trials. These materials are available to practitioners and potential practitioners in CSM. The Library is also open to researchers on request. There is no charge to CSM professionals in the field.

Information Exchange

The Futures Group is in the process of developing a peer review and comment service for unpublished articles and plans by CSM program managers and others who would like comment from selected professionals in the field. It also provides a clearinghouse function, distributing copies of articles and/or citations to program managers which are submitted from the field, and general information on ICSMP and CSM on request. Most information is in English; materials in French and Spanish are limited.

Publications

Social Marketing UPDATE, a quarterly newsletter, publishes reports on CSM projects, new research in English and Spanish. Copies are sent gratis to a current reading list of 1,000 individuals in ministries of planning, family planning programs, AID, and advertising, distribution, and packaging agencies in developing countries.

Consulting Services

French or Spanish speaking experts in market research, consumer product advertising, and marketing and program management can be made available in developing countries, for periods of from one week to three months to advise on existing programs or assist in establishing new ones. Costs of salaries, per diem, and international travel are paid from Project funds.

Conferences

One regional and one international conference on management and marketing techniques have been held for CSM project managers and others involved in CSM operations.

Funding

Financial assistance can be made available to organizations desiring to initiate CSM programs for feasibility studies, marketing research, etc., and to existing programs for new product introductions, marketing research, evaluations, etc. Requests must be made by the managing CSM organization or potential organization to The Futures Group or AID Project Officer. Assistance is provided through grants and contracts, depending on the nature and scope of work to be completed.

Requirements and Criteria

Funding must be used specifically for CSM-related activities; no funds are available from this project for clinic-based, traditional family planning programming or general demographic research.

HEIFER PROJECT INTERNATIONAL (HPI)

Project: Comprehensive Livestock Development Program/Matching Grant

Principal Officer

Alden R. Hickman, Executive Director

Project Director

Jerry Aaker

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Telephone Number

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Telex Code

783116

AID Project Officer

Paul Bisek

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AID Project Number

938-0151

AID Grant Number

PDC-01510G-SS-1146-00

Objectives

The Comprehensive Livestock Development Program is designed to help counterpart organizations in developing countries and local indigenous groups to carry out small-scale livestock projects as a component of and catalyst to rural, socioeconomic development. The program seeks to provide comprehensive support to local livestock projects through technical assistance: donation of animals; veterinary services and supplies; forage development and feed-stuff information; training of technicians, project level workers, and livestock recipients; extension services; follow up and technical services, including planning and evaluation.

history

Small-scale livestock development projects have been implemented through local organizations in Guatemala, Honduras, the islands of the Eastern Caribbean, Jamaica, Haiti, the Dominican Republic, Peru, Ecuador, and the Philippines. Technical assistance, consultation, and training have been provided by HPI supported consultants, field staff, and HPI representatives in these countries. A wide range of projects have been supported including cattle, goat, sheep, poultry, bee, and swine projects.

Personnel

Heifer Project International personnel are livestock and rural development specialists, many of whom are volunteers. HPI representatives are deployed in many countries around the world.

Library

HPI maintains a small Library for staff as well as files of technical information to be shared with field staff and project managers. The subjects covered are rural development and livestock development.

Information Exchange and Publications

HPI maintains a mailing list of approximately 150 field personnel working on livestock development projects to which is sent, approximately six times a year, a technical newsletter, The Heifer Project Exchange. The newsletter is written in English and provides information which has come to HPI's attention from field projects as well as from technical resources in the area of livestock development. For information, write to the Executive Director at the address above.

Training

HPI supports project level training for participants in projects as well as managers and technicians. These training programs are designed and implemented on the basis of need and demand. For example, seminars and workshops in goat management and production in developing countries have been carried out in the Dominican Republic, the eastern Caribbean, Haiti, and Jamaica.

Other Services

HPI has developed some technical and programmatic computer capability for evaluation of small-scale livestock projects. Also being developed is an evaluation system manual. Some training materials are being developed in areas such as goat management.

Requirements and Criteria

Heifer Project International emphasizes the distribution of livestock as well as the training of project beneficiaries. In addition, strong emphasis is put on the "Passing the Gift" system, which requires that each beneficiary share a portion of the offspring from the livestock with others. HPI requires that projects aim at the poorest segments of the population that can feasibly be assisted by animal agricultural enterprises and attempts to assure the production feasibility of projects according to the environment in which they are to be implemented.

INTERNATIONAL CENTER FOR RESEARCH ON WOMEN (ICRW)

Project: Women's Socioeconomic Participation

Project Directors

Dr. Robert Girling and Janet Self

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International Center for Research on Women
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Telephone Number

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AID Project Officer

Mr. Lou Faoro
Office of Multisectoral Development
Bureau for Science and Technology
Agency for International Development
Washington, DC 20034 U.S.A.

AID Project Number

936-5319

AID Contract Number

AID/DSAN-C-0269

Objectives

Assistance is provided to enhance the economic participation of low-income women in development strategies and program/projects. The specific Project objectives are to:

- o provide short-term technical assistance to AID missions for the identification, design, and evaluation of country development strategies, programs, and projects related to employment and income generation activities of poor women; and
- o disseminate information to development policy and program experts on effective employment and income strategies for low-income women.

History

Since the inception of the Project in October 1980, ICRW has received requests for technical assistance from over 30 AID missions and has provided direct assistance to eleven countries. Assistance has included mission portfolio review; project baseline and design and evaluation; urban and rural development sector review; international seminars; and employment policy analysis. During the next fiscal year, ICRW will assist up to five additional missions. A number of seminars, briefings, and workshops will also be undertaken to disseminate program findings and evaluate program effectiveness.

Personnel

ICRW professional staff includes a development sociologist, a social psychologist, an economist, a demographer, an education specialist, an anthropologist, and a management specialist. ICRW's areas of expertise (staff and associates) include policy analysis; project identification, design, management, and evaluation; data collection/analysis; small enterprise development; delivery of services--including technology, credit, and training; agricultural development; and community development. Staff have development experience in Africa, Asia, Latin America, and the Middle East, and have worked with international, national, and private voluntary organizations.

Physical Facilities

A conference and workshop/seminar room is available at ICRW. A resource center is open to the public, but particularly to researchers and development professionals.

Library/Resource Center

ICRW maintains a resource center containing 5,000 published and unpublished papers concerning socioeconomic roles of women in developing countries. It makes bibliographic searches and meets special requests for specific publications for which there are no established charges--the highest charge is the cost of reprinting and postage in meeting requests for specific articles. The resource center is open to the public free of charge, by appointment. Inquiries should be made to Karen White, Librarian.

Research

The Project is not research oriented, although research profiles on women in specific countries and projects are prepared. ICRW assists AID missions with design and conduct of baseline monitoring and survey activities. Inquiries should be made to Mayra Buvinic, Director.

Training

Training services are provided. ICRW regularly sponsors workshop/panels and policy seminars, trains consultants, and conducts an inhouse fellowship program for developing country participants.

Consulting Services

Short-term experts including policy analysts and research design, evaluation, and sectoral specialists are made available to assist AID missions and implementing agencies (private voluntary organizations and national governments) to integrate an economic focus on women in their development strategies, programs, and projects. ICRW can provide a wide range of short- and long-term consultant services. Under the contract, AID covers most of the costs of first-time, short-term services and a combination of funding (e.g., AID mission or Bureau usually) covers additional longer-term services.

Other Services

ICRW sponsors a number of conference/workshop activities annually. Topics deal with both project and policy issues, e.g., credit, technology, migration, evaluation, project design.

JOHNS HOPKINS PROGRAM FOR INTERNATIONAL EDUCATION
IN GYNECOLOGY AND OBSTETRICS (JHPIEGO)

Project: International Education in Reproductive Health (JHPIEGO)

Project Director

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Cable Code

JHPIEGO

AID Project Officer

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AID Project Number

932-0604

AID Cooperative Agreement Number

AID/DSPE-CA-0083

Objectives

JHPIEGO programs are designed to prepare physicians and other health professionals in developing countries to advance improved reproductive health measures for women and their children in their countries. Educational efforts are directed towards institutionalizing within medical establishments in these countries the knowledge and skills necessary for the delivery of comprehensive reproductive health care. The stimulation, development, and establishment of didactic and/or clinical training centers within countries and regions are major elements in this program as is the provision to institutions of medical equipment and technical assistance in faculty and curriculum development. Offerings include clinical and didactic courses in reproductive health for physicians, nurses, administrators, medical and nursing students, and auxiliary personnel.

History

The JHPIEGO Corporation is the direct outgrowth of a Johns Hopkins University study carried out in 1973 through a planning grant from AID. In 1974, an AID grant was awarded to the JHPIEGO Corporation to enable it to serve as the intermediary agency and management vehicle to mobilize resources and channel funds and equipment to participating medical institutions. Initially, programs were conducted at three centers in the United States. Two have been phased out due to the development of national and regional training centers. The program at Johns Hopkins University continues to offer specialized courses. By 1982, over 23 collaborative educational projects were functioning at major teaching institutions in the developing world. Also in operation were 45 clinical practice centers and ten repair and maintenance centers.

Personnel

Faculty and professional staff provide some 18 man-years to the Project; 28 man-years are provided by the support staff.

Physical Facilities

JHPIEGO Administrative Offices; training facilities provided by the Johns Hopkins University School of Medicine.

Publications

The JHPIEGO Newsletter is published three times yearly in English, French, and Spanish. Typical articles are entitled "Pioneer of Laparoscopy in Philippines to Direct Center," "Oral and Injectable Contraceptives: Effects on Breast Milk and Child Growth in Bangladesh." Subscribers are 2,500 physicians and health professionals. There is no charge for a subscription. Other publications include Surgical Equipment and Training in Reproductive Health, Reproductive Health in the Developing World, Laprocator: Preventive Care and Maintenance, and Advanced Laparoscopic Systems: Preventive Care and Maintenance. (The latter two are available in English, French, and Spanish.)

Training Services

JHPIEGO training programs are offered in the developing world and at the Johns Hopkins Medical Institutions. Programs conducted overseas, at national or regional educational institutions, emphasize advances in reproductive health and address:

- o endoscopy, minilaparotomy, IUD insertion, and anesthesiology (emphasizing local anesthesia) for physicians and other health professionals;
- o current concepts in human reproduction;
- o family planning and reproductive health for physicians, nurses, medical and nursing students, and paramedical personnel; and
- o curriculum development, designed to foster the standardization of medical institutions' curricula in family planning and reproductive health.

In-country courses may be national or regional in scope. Each overseas program is designed to address the particular needs and interests of that country or region. Programs are implemented through existing infrastructures: ministries of health, medical schools, and public and private family health and family planning programs. Programs at Johns Hopkins include clinical courses on advances in reproductive health, infertility, microsurgery, and sexually transmitted diseases, and the didactic courses on reproductive health administration and academic skills for medical school faculty. Courses have been offered in English, French, Spanish, Portuguese, and Turkish. All courses emphasize the role of family planning in relation to overall reproductive health.

Consulting Services

JHPIEGO employs consultants, many from the developing countries, primarily to provide field training in endoscopy, lectures in reproductive health, technical assistance in curriculum development, and maintenance and repair of medical equipment.

Requirements and Criteria

JHPIEGO generally gives preference to candidates who are health professionals working with private nonprofit institutions that offer services in reproductive health and family planning, and to medical and paramedical personnel providing government-sponsored health services in rural areas. Consideration may be given to physicians who do not specialize in obstetrics and gynecology but who have surgical experience or an interest in family planning. Institutional willingness to participate is taken into consideration.

For its clinically-oriented U.S. courses, JHPIEGO recruits primarily physicians specializing in or providing substantial health care in gynecology and obstetrics or reproductive health, who have current teaching responsibilities in medical schools or teaching hospitals. Applicants for the administrators course should have a background in obstetrics, gynecology, and pediatrics, with experience in public health. Applicants for the academic skills course should be physicians having one to five years' experience as faculty members in a department of obstetrics and gynecology, and who conduct clinical research.

National recruitment for courses abroad is carried out by JHPIEGO's project directors in developing countries. Participants for regional and U.S.-based courses are selected by JHPIEGO's admissions committee. Candidates accepted for a JHPIEGO course will be provided:

- o round-trip, economy class air transportation;
- o a per diem allowance for the duration of the course;
- o tuition-free instruction; and
- o educational materials.

JHPIEGO will review any proposal or request for assistance in matters relating to the improvement of reproductive health. Types of assistance include the provision of:

- o authoritative speakers for educational programs;
- o consultant services for the development of educational programs or clinical services; and
- o educational materials, including books, manuals, films, and slides.

THE JOHNS HOPKINS UNIVERSITY

Project: Population Communication Services (PCS)

Principal Investigator
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Project Director
Cynthia P. Green

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POPINFORM

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AID Project Officer
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AID Project Number
932-0659

AID Contract Number
DPE-3004-A-00-2018-00

Objectives

The PCS Project performs five major functions:

- o to carry out needs assessments as to information, education, and communication (IEC) needs in developing countries;
- o to provide technical assistance in a wide range of IEC activities, including design of comprehensive national strategies, production of broadcast and other mass media materials, preparation of print materials for nonliterates, and various on-the-job training activities;
- o to support country projects along the lines indicated above;
- o to collect and distribute prototypes of useful print and other materials for family planning programs and users; and
- o to organize workshops and seminars on issues related to family planning and population IEC needs.

The basic purpose of the Project is to enhance the use of family planning by improving communication, to improve planning and production of family planning/population materials, and to build skills in family planning IEC.

History

In October 1982 the PCS Project was established at the Johns Hopkins University, to be administered through the Population Information Program, for a five year period. Plans are underway to initiate the activities listed above.

During the first six months of the Project, staff and/or consultants visited Mexico, Panama, Honduras, Egypt, and Jordan. Two country project proposals were drafted and reviewed, and are nearing implementation.

Personnel

The Project staff includes a Principal Investigator, a Project Director, a Deputy Project Director, four Regional Program Coordinators, an Administrator, an Assistant Administrator, and three clerical and research employees.

Physical Facilities

The Project's facilities include a library (under development), audiovisual equipment, a projector and screen, and a word processor.

Training

Workshops and U.S. training sessions are being planned.

Consulting Services

At the request of AID missions and various developing country agencies, technical assistance and consulting services can be provided in all aspects of family planning information, education, and communication, as described above.

Requirements and Criteria

PCS will identify projects for funding during the needs and assessment and technical assistance missions it will conduct during the next five years. Once projects have been identified, the prospective grant-receiving organization will be asked to submit a proposal describing its planned activities. Proposals will be reviewed periodically by PCS staff and its Advisory Group. Organizations interested in undertaking population/family planning communication projects are invited to contact PCS, so that a PCS representative can meet with them during the next scheduled country visit.

THE JOHNS HOPKINS UNIVERSITY
SCHOOL OF HYGIENE AND PUBLIC HEALTH

Project: Population Information Program

Project Director

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POPINFORM

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Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

932-0659

AID Contract Number

DPE-0659-C-00-0199-00

Objectives

The Population Information Program performs three major functions:

- o preparing and distributing Population Reports;
- o collecting and abstracting information for POPLINE, the computerized population information system, and providing POPLINE services to the developing world; and
- o maintaining, updating, and expanding an international mailing list of up to 85,000 names and addresses.

In addition, the Hopkins Population Information Program provides training in the use of information systems to support population/family planning programs. The Population Information Program also administers the Population Communication Services Project which provides field support for communication activities in developing countries.

History

In 1972, the Population Information Program was established at the George Washington University Medical Center, Washington, DC, primarily to prepare and publish Population Reports. This serial publication was to inform readers of new developments in fertility management, family planning programs, demographic change, law and social policy, and other areas of international population concern. An international mailing list for distributing Population Reports was developed and a computerized, online information system, initially called POPINFORM, was instituted to provide citations and abstracts of journal articles, book chapters, published and unpublished reports, government and United Nations documents, and other population/family planning data. The

with the Center for Population and Family Health at Columbia University, which contributed 15 percent of the data base.

In 1978, The Johns Hopkins University assumed responsibility for the Population Information Program, which has continued to publish Population Reports and expand the international mailing list. POPINFORM has been renamed POPLINE and is now part of the National Library of Medicine's MEDLARS system. In October 1981, records from 1978 to that date which had been published in Population Index, the quarterly bibliographic journal produced by the Office of Population Research, Princeton University, were added to the system.

Personnel

The personnel include a Director, an Associate Director, five librarians, two editors, three research assistants, three research associates, six clerical and editorial secretaries, and six to eight abstractor/indexers.

Physical Facilities

The facilities include a Library, a conference room with a capacity of 25, four computer terminals with video and print capabilities, and a word processor.

Library

A Library, containing 3,000 monographs and 500 journal subscriptions in family planning, demography, contraception, health, and law, primarily for staff use, is open to the public by appointment for reference use. There is no charge for use of materials on site. Inquiries should be sent to Ms. Anne Compton, Population Information Program.

Information Exchange and Publications

The Population Information Program publishes Population Reports, a bimonthly journal of family planning programs and contraceptive technology, with a circulation of 110,000. Each issue consists of 28 to 44 pages summarizing the current status of knowledge in a particular area of family planning, with emphasis on the experience of developing countries and a focus on practical problems and how they are being resolved. Population Reports includes an extensive bibliography and is published in English, French, Portuguese, Spanish, and some issues in Arabic. Copies in any quantity are available free of charge to family planning and health personnel in developing countries. In developed countries, multiple copies are \$.25 each. Copies are sometimes available in bulk for use in meetings, classrooms, etc.

Population Information Program also participates in the Association for Population/Family Planning Libraries and Information Centers International. One of the goals of this organization is to maintain a cooperative network of population information centers for the exchange, dissemination, and communication of population information. Individual memberships are \$15 per year; institutional memberships are \$75 per year. Inquiries should be sent to APLIC-International, c/o Carolina Population Center Library, University Square, East 300-A, Chapel Hill, North Carolina, 27514, U.S.A.

POPLINE, a computerized literature search service, offers published and unpublished information in the form of citations with abstracts on all aspects of family planning and population, including research in human fertility, contraception, family planning programs, population, and related health, law, and policy issues. Worldwide in coverage and updated monthly, POPLINE contains over 100,000 citations and abstracts. Documents in all languages are collected; citations and abstracts are online in English.

POPLINE is the responsibility of the Population Information Program of the Johns Hopkins University, the Center for Population and Family Health Library/Information Program of the Columbia University, and the Population Index at Princeton University. The National Library of Medicine, with financial assistance from AID, makes the service available online in the United States and other countries. POPLINE services include retrospective searches, current awareness searches, and document delivery.

Developing Countries: Searches can be requested directly from the Population Information Program or the Center for Population and Family Health. All searches are free of charge. Inquiries should be sent to Population Information Program, the Johns Hopkins University.

United States: Available through the National Library of Medicine's MEDLARS system, POPLINE can be accessed at over 1,900 academic, commercial, and government organizations which are designated search centers. Contact your library or the National Library of Medicine, Bethesda, Maryland, for the center nearest you. Current connect charges are \$22 per hour.

Developed Countries: Searches can be requested directly from one of the producers. Literature searches for persons employed by international development and training institutions are free of charge. A fee may be charged for all other requestors.

Mailing List: A computer-based mailing list of 85,000 names is available for use by organizations active in the field of population and family planning. The data are stratified by country, language, interest, etc., and tailored lists can be generated. Charges vary depending on volume, format, and status of user. Address queries to Dr. Phyllis T. Piotrow, Director.

Consulting Services

Short-term consulting services and special orientation programs are available in setting up, operating, and using an automated bibliographic retrieval system. Costs are usually reimbursable by the user.

Requirements and Criteria

Services are primarily for organizations and individuals in population/family planning activities in or directed toward developing countries. Persons requesting subscriptions or copies of Population Reports should print their full name and address, state their organizational affiliation, the language of publication they prefer (Arabic, English, French, Portuguese, Spanish), and the number of copies of each issue that they want to receive.

KANSAS STATE UNIVERSITY (KSU)
FOOD AND FEED GRAIN INSTITUTE (FFGI)

Project: Improvement of Postharvest Grain Systems

Principal Officer

Dr. Charles W. Deyoe, Coordinator

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Mailing Address

Food and Feed Grain Institute
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AID Project Officer

Dr. Robert F. Morris
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Washington, DC 20523 U.S.A.

AID Project Number

931-0786

AID Cooperative Agreement Number

AID/DSAN-CA-0256

Objectives

The Food and Feed Grain Institute strives to:

- o provide postharvest assistance and training to improve socioeconomic conditions for farmers;
- o develop improved grain marketing systems; and
- o help assure consumers of an adequate supply of food grains.

History

FFGI was developed from two earlier projects dating back to 1967, when AID and FFGI joined forces. Entitled "Technical Assistance in Food Grain Drying, Storage, Handling, and Transportation," the first project was in effect from June 1967 to September 1974. It was followed by a second entitled "Technical Assistance in Grain Storage, Processing, Marketing, and Agribusiness Development," which ran from October 1974 through September 1980.

Personnel

The Project uses a core group of 12 specialists on a full-time or part-time basis. Private consultants are hired when the required expertise cannot be obtained from within KSU. The faculty of KSU has expertise in the following areas: grain storage; grain quality preservation; sanitation; pest management and control; stored product entomology; mycology; flour milling; feed manufacturing; food and nutrition; grain drying and grain conditioning, cleaning, and processing; storage structures; equipment handling and maintenance; grain marketing, pricing, and market development; policy analysis and development; transportation and location analysis; project analysis; supply and demand analysis; institutional development; loss assessment; warehouse management; inventory control; grain grading; and many others.

Physical Facilities

FFGI has access to the facilities of KSU; it has in its headquarters building the Project Library, offices, laboratories, classrooms, conference rooms, computer facilities and word processors, audio equipment for interpreters, TV monitors, and other audiovisual equipment. On the grounds of the University are a feed mill, a flour mill, a bakery, and dormitories for students.

Library

The Postharvest Documentation Service (PHDS) has 3,797 volumes, and is continuously adding to the collection. Publications cover the general subject areas of grain harvesting, processing, marketing, and postharvest losses. The Library also has document acquisition lists and automated data searches. The use of the Library is free of charge to institutions in developing countries which are eligible for U.S. foreign assistance. Services are provided to other institutions at minimal cost. Inquiries should be sent to Kansas State University, Postharvest Documentation Service, Farrell Library, Room 411, Manhattan, KS, 66506, U.S.A.

Information Exchange

While the Postharvest Documentation Service provides information on a routine basis to clients, staff members provide answers to written requests for information on specific problems. Such inquiries generally come from individuals involved in postharvest grain projects. Such information is usually provided at no cost. Languages used include English, Spanish, and French.

The Project also exchanges information regarding activities and research programs on a regular basis with the seven members of the Group for Assistance on Systems Relating to Grains After Harvest (GASGA).

Staff members also respond to inquiries from individuals in the United States, including government officials, faculty members, etc.

Publications

The Project publishes technical assistance reports, research reports, special reports, and training manuals. These are published in English, Spanish, and French as required. Inquiries should be directed to the PHDS.

Research

Research activities are geared toward the needs of developing countries in the development of postharvest grain systems. Research covers such areas as grain storage, conditioning, processing, and marketing. Research results are published by the Project or in professional journals. The Project can assist in developing and operating research activities and applications in developing countries through research definition, set up, assistance in implementation, and evaluation.

The Project has research facilities at KSU as well as its own field laboratory. Research undertaken is paid for from Project funds. These funds are

supplemented by KSU funds through salary support for professors and staff and through equipment provided by KSU for use in research projects. Anyone working for the Project or in conjunction with the Project may use the research facilities. For information on research activities, write to the Coordinator at the mailing address above.

Training

The FFGI offers non-academic and academic training on a regular basis and on demand at KSU. The subjects are grain storage and marketing. Length of training, language requirements, type of degree, and tuition depend on the needs of the individual and the type of training required.

Every summer a seven-week Grain Storage and Marketing Short Course is presented at KSU. Simultaneous translation into Spanish and French is offered. The course is listed in the U.S. Department of Agriculture Training Office Publication. In-country training is also provided on demand through the local AID mission. Inquiries about training should be sent to the Coordinator.

Consulting Services

Consulting services in the form of technical assistance are provided on request through the local AID mission. Up to 30 man-days each fiscal year are provided to the mission at no cost. Payment for costs above this limit are negotiated with the mission. Local in-country costs (travel and support services) are expected to be provided by the mission.

Funding

Depending upon availability of funds, the Project can provide limited funds to students enrolled in post-graduate studies and working towards a Master's or Doctoral degree.

Requirements and Criteria

Only countries eligible for U.S. foreign assistance may receive technical assistance from this Project.

Personnel

Six MSU Professors of Agricultural Economics, six Ph.D. candidates in agricultural economics are core members of the "Strategies" group. Several faculty members in other departments at MSU also collaborate. In addition, a larger network of associates from other universities and the private sector are used to supplement MSU faculty for consulting assignments and applied research.

Publications

An MSU International Development Paper is published three to four times a year in English, and sometimes in French and Spanish. From 2,500 to 5,000 professional development specialists receive these papers without charge. Subscription inquiries should be sent to MSU International Development Papers, Department of Agricultural Economics, Agriculture Hall.

Research

As previously stated, the Project conducts applied research on consequences of alternative rural development strategies, and farming and marketing systems for small farmers. The cost of field research is paid by AID missions.

Training

One- or two-week seminars on farming and marketing systems can be organized. Details are developed with the AID mission, the AID regional bureau, and the project officer.

Consulting Services

Short-term advisors from Michigan State University, other universities, and the private sector can be provided through this contract. The AID mission pays the cost of consultation.

Conferences

Conferences may be organized at MSU or other places in the United States or overseas.

NATIONAL ASSOCIATION OF SCHOOLS OF
PUBLIC AFFAIRS AND ADMINISTRATION (NASPAA)

Project: Project Management

Project Director
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Branch Office
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AID Project Officer
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AID Project Number
936-5317

AID Cooperative Agreement Number
AID/DSAN-CA-0180

Objectives

Country development programs:

- o To provide technical assistance to AID missions and developing country institutions to incorporate more effective approaches to the management of programs and projects, and to strengthen the management education and training capabilities of host country and regional institutions.

Applied research:

- o To research ways to resolve managerial and instructional problems. Activities include the following types of studies: institutional capabilities and management needs in developing countries; innovative approaches to project planning and implementation requiring people-centered planning, social learning, and bureaucratic reorientation; management education and analysis of the appropriateness of management education in the United States to the needs of developing countries.

Methods and materials:

- o To produce training materials, curricula, and instructional modules for developing countries, particularly for French-speaking African and Caribbean countries.

Rosters and professional exchange:

- o To identify well-qualified institutions and individuals for international development management services; promote collaborative relationships between NASPAA member institutions and similar institutions in developing countries; and strengthen U.S. education and training resources to serve developing country needs.

History

Since 1979 when the Project began, teams have provided short-term technical assistance in a variety of areas. Most have involved management institutions in developing countries or projects which include a training component. Some of the country development program activities have resulted in reports of specific projects which have an applied research dimension. Other activities have been more directly applied research in nature--such as institutional reviews of national institutes of development administration, and the study of regional management education institutions. NASPAA is underwriting a substantial effort to develop French language project management training materials for Francophone Africa. A roster of some 500 technical consultants primarily from, but not restricted to, NASPAA affiliated institutions has been developed for use by NSPAA and AID to support various activities conducted under the cooperative agreement.

Personnel

Currently there are three core professional staff in Washington, and two long-term staff based overseas. Their work is supplemented by short-term consultants to conduct specific AID assignments.

Publications

Development Management Report, is an occasional publication in English. It disseminates information on topics related to improvement of public management in developing countries. There is no charge for a subscription.

Working Papers related to the research agenda have, to date, focused on topics related to social development management. These are:

- o David C. Korten and Norman T. Uphoff, "Bureaucratic Reorientation for Participatory Rural Development." November 1981.
- o George Carner and David Korten, "People Centered Planning: The USAID/Philippines Experience." March 1982.
- o David Korten, "The Working Group as a Mechanism for Managing Bureaucratic Reorientation: Experience from the Philippines." May 1982.
- o David Pyle, "From Project to Program: Structural Constraints Associated with Expansion." June 1982.
- o Bibliography: Social Development Management: An Annotated Bibliography. Compiled by Elizabeth Shields. June 1982.

Research

Research focuses generally on public management improvement. At the present time, field work is being done on bureaucratic reorientation of developing country governments to support local community-based development activities.

Training

Project personnel assist developing country institutions in design and conduct of management training funded by AID.

Consulting Services

Short-term advisors/consultants can be mobilized by NASPAA to AID missions for specific scope of work requests. Cost is covered primarily by the requesting AID mission, regional office, or bureau.

NORTH CAROLINA STATE UNIVERSITY (NCSU)

Project: Pest Management: Root-Knot Nematodes
Popular Name: International Meloidogyne Project (IMP)

Project Director
J.N. Sasser, Professor of
Plant Pathology

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AID Project Number
931-0164

AID Contract Number
ta-c-1234

Objectives

The Pest Management Project's objectives are:

- o to identify species and races of root-knot nematodes in agricultural soils;
- o to select for resistant germplasm by cooperative efforts with international agricultural research centers such as CIAT, CIMMYT, IITA, CIP, ICRISAT, and AVRDC;
- o to develop and implement effective rotation schedules for root-knot nematode management;
- o to study variability within species and populations with reference to host reaction, morphology, pathogenic behavior, and phylogenetic relationships;
- o to evaluate the effects of various environmental factors on Meloidogyne distribution, survival, and pathogenicity; and
- o to develop effective integrated crop protection systems, on a regional basis, for root-knot management.

History

The IMP was first funded in July 1975. At that time, a network of nematologists from more than 60 developing countries was organized, made aware of the problem, and encouraged to perform research. Periodic research and planning conferences were held from January 1976 through October 1982. Research abroad and at the project center in Raleigh concentrated on ecology, taxonomy, and pathogenic variation for the first five years. Current research emphasizes

screening cultivars for resistance, cropping systems, and technology transfer. Some work is being done on biological control and on mechanisms which break cultivar resistance.

Personnel

At NCSU, eight faculty members with specialities in root-knot nematode morphology, anatomy, cytogenetics, biochemistry, statistics, screening for resistance, and transfer of technology work directly with the Project. There are four full-time research technicians, three part-time technicians, a consultant in ecology, and a secretary. Overseas there are more than 100 cooperating nematologists or plant pathologists in over 60 developing countries.

Physical Facilities

Facilities include laboratory and office space and routine laboratory equipment. Greenhouses suitable for maintaining unusual populations and isolates of the nematode are being provided by the University. The following facilities and biological materials are also available:

- o controlled temperature cold rooms;
- o phytotron for growing plants and rearing nematodes under controlled and reproducible conditions;
- o a biological science electron microscope center including a specimen preparation laboratory, darkroom facilities, four transmission electron microscopes (Siemens Model 1A; Hitachi H5-8; Phillips 400-T; JEOL 100S), two scanning electron microscopes (ETEC, JEOL T200), two critical point dryers, three gold coaters, one freeze etch, and eight microtomes;
- o facilities of the Triangle Universities Computing Center, one of the largest university computing complexes in the nation; and
- o approximately 1,000 populations of Meloidogyne representing approximately 80 countries obtained for study during the first five years of the Project.

Library

The University Library houses more than 1 million volumes, 1.6 million microfilms, and 455,000 U.S. government publications.

Publications

The Project issues various publications on root-knot nematodes biology, identification, and management. These are available free to Project cooperators in developing countries. There is a fee to other interested persons. Recent titles include:

Biology, Identification and Control of Root-Knot Nematodes
Crop Cultivars Resistant to Root-Knot Nematodes
Experimental and Agronomic Use of Nematicides

Inquiries should be addressed to the Department of Plant Pathology, NSCU, at the address above.

Research

Continuing research is carried out on screening cultivars for root-knot resistance, on host pathogenecity, and mechanisms for breaking resistance. Research has been completed on Meloidogyne taxonomy by morphological, biochemical, and cytogenetic methods; the findings of this research are ready for application. Preliminary research has begun on biological control with fungus Paecilomyces lilacinus. Cropping systems research will begin soon overseas.

In cooperation with the international agricultural research centers, IMP will identify and conduct differential host tests on Meloidogyne ssp. and screen germ plasm collections for resistance to Meloidogyne species. Services are available only to IMP cooperators. Inquiries should be addressed to the Project Director at the address above.

Training

Short-term individual training (a few days to a few weeks) in English is available to cooperators. An international workshop on root-knot nematodes was held for three weeks in April 1983.

Conferences

Conferences are held periodically in each of the eight IMP regions for Project cooperators and other interested persons from the same region. Inquiries should be addressed to the Project Director at the address above.

Funding

Financial assistance is available to Project cooperators from developing countries for training, conferences, and publications. Small grants are occasionally given to cooperators for purposes of buying equipment, journal subscriptions, etc.

Requirements and Criteria

Persons interested in becoming cooperators must be currently engaged in nematology research in developing countries eligible for U.S. aid. Cooperators from developing countries receive training, publications, and other assistance free of charge.

NORTH CAROLINA STATE UNIVERSITY (NCSU)

Project: Soil Management Collaborative Research Support Program (TropSoils)
Popular Name: Soil Management CRSP

Project Director
Dr. J.L. Apple

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Raleigh, NC 27650 U.S.A.

Telex Code
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Cable Code
NCSU Soils

Mailing Address
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Raleigh, NC 27650 U.S.A.

AID Project Officer
Dr. John L. Malcolm
Office of Agriculture
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-1311

AID Contract Number
DAN-1311-G-SS-1083-00

Objectives

The goal of the Soil Management Program is to develop and adopt improved soil management technology which is agronomically, ecologically, and economically sound for developing countries of the tropics. The Program is research-oriented but includes a training component as part of the procedure for accomplishing the research. Formal agreements are developed with participating U.S. universities for designing and implementing specific research activities and with host countries as collaborators.

History

The Program was initiated in 1981; the overall goal, objectives, participating universities, and research sites were developed by a Planning Entity. Following acceptance of the proposal by AID, a Management Entity was selected. The Management Entity and the participating universities have entered into formal agreements and have also completed agreements with host countries. The participating universities are Cornell University, North Carolina State University, Texas A&M University, and the University of Hawaii. The host countries are Brazil, Indonesia, Mali, Niger, and Peru.

Personnel

There are more than 75 people working on the Program in various capacities. The skills are in the areas of soil classification, soil physics, soil fertility, soil conservation, soil management, soil chemistry, soil microbiology, forest soils, soil-plant relationships, and agronomy.

Physical Facilities

Research laboratories, greenhouses, field facilities, and Libraries are available at each participating university and in each host country.

Library

The Library facilities of the four participating universities are fully available to the participants in the Program. (For a more detailed discussion of the NSCU library, see page 271.)

Information Exchange

Reports on work in progress are sent to interested persons and institutions. Information is provided on request. There is no charge. Inquiries should be addressed to the Project Director, at the address above.

Publications

The Soil Management Program publishes in English a quarterly journal entitled TropSoils Communiques. The publication is distributed free of charge to about 350 administrative and scientific workers in the field of soil science. Inquiries about subscriptions should be sent to Mrs. Kim Stevens, Soil Management CRSP, at the address above.

Research

Research is conducted on soil management practices applicable to the humid tropics, the semi-arid tropics, and the arid savannas. Some of the results are ready for application in developing countries. Laboratory and field sites are available at the universities and in the host countries for conducting collaborative research pertinent to the program goals. Inquiries should be addressed to Dr. C.B. McCants, Soil Management CRSP, at the address above.

Training

Graduate level training is available at both the Master's and Doctoral levels at all four universities. The language and academic requirements are established by each university.

Consulting Services

Consultants are available at each participating university. Arrangements are made on an individual basis.

Funding

Graduate research assistantships are available at each participating university. Qualifications and conditions of appointment are established by each university.

NORTHWESTERN UNIVERSITY

Project: Program for Applied Research on Fertility Regulation (PARFR)

Project Director

John J. Sciarra, M.D., Ph.D.

Telephone Number

(312) 649-2990

Address

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Northwestern University
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Cable Code

PARFR, Chicago, Illinois

AID Project Officer

Jeff Spieler
Office of Population
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

932-0546

AID Cooperative Agreement Number

DPE-0546-A-00-1003-00

Objectives

PARFR provides scientific, technical, and financial assistance to institutions in the United States and abroad for applied research projects aimed at the development of safe, effective, and acceptable methods of fertility regulation. Priority is given to projects directed toward the development of new or improved methods appropriate for use in developing countries, and collaborative efforts between U.S. and foreign institutions are particularly encouraged. Of major interest to PARFR are fertility control methods which:

- o do not require physician services;
- o do not require frequent administration;
- o do not require high levels of motivation;
- o can be self-administered; and
- o can minimize supply and distribution problems.

History

The Program was established in 1972 at the University of Minnesota, and transferred to Northwestern University in 1974. Since 1972, 182 projects have been funded by PARFR. Currently 40 projects are active. The staff size has remained constant throughout the life of the project.

Personnel

Three professional staff persons: Director of Technical Assistance, Head of Research Project Development, and Director of Administration; and four support personnel: Project Controller and three secretaries.

Physical Facilities

PARFR occupies 3,079 square feet. The offices include a combination medical library and conference room.

Library

PARFR's medical library contains 300 to 350 volumes and journals on obstetrics/gynecology and urology, and is used by staff when reviewing and evaluating proposals. There is no charge for use.

Publications

PARFR publishes a research review, Research Frontiers in Fertility Regulation, four to six times a year. Each issue deals separately with a specific area of research in the field of fertility regulation, and is sent free to over 6,000 individuals and medical libraries around the world. Subscription inquiries should be sent to PARFR's Director of Administration.

Training

PARFR supports workshops which bring together leading national and international scientists and clinicians from many disciplines to present their work and exchange ideas on research related to fertility regulation. The proceedings of each workshop are published by Harper and Row, Publishers, Inc., and are available from Lippincott/Harper, P.O. Box 7777-R0200, Philadelphia, Pennsylvania, 19175, U.S.A.--Control of Male Fertility (1975); Advances in Female Sterilization Techniques (1976); Risks, Benefits, and Controversies in Fertility Control (1978); Reversal of Sterilization (1978); Pregnancy Termination: Procedures, Safety and New Developments (1979); Vaginal Contraception: New Developments (1979); Research Frontiers in Fertility Regulation (1980); LHRH Peptides as Female and Male Contraceptives (1981); and Female Transcervical Sterilization (1983).

At the invitation of government and/or universities, PARFR supports and assists with the organization of regional symposia. PARFR has supported two symposia in Brazil, one in Chile, one in Indonesia, one in Venezuela, and is organizing one in Egypt and one in the Dominican Republic.

Requirements and Criteria

- o Pilot Studies: Research proposals for short-term studies are designed to produce preliminary results from which formal research proposals may develop. These projects may receive maximum support of \$10,000, with funds provided through a cost-reimbursable agreement for a period not to exceed one year.
- o Informal Proposals: Brief research proposals are reviewed by PARFR Staff and its Scientific Advisory Committee. Those investigators whose proposals meet PARFR objectives will then be requested to submit formal proposals for further review and consideration.
- o Formal Proposals: Proposals for extended research are reviewed by PARFR Staff and its Scientific Advisory Committee. Approved proposals may receive maximum support of \$66,000 annually, with funds provided through a cost-reimbursable agreement. Subsequent support is dependent upon satisfactory progress and PARFR review. PARFR Guidelines for proposal preparation are obtained by writing Diane Krier-Morrow, M.B.A., PARFR's Director of Administration.

THE POPULATION COUNCIL

Project: Programmatic Cooperative Agreement

Project Director

George F. Brown, Director
International Programs

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(212) 644-1300

Address

The Population Council
One Dag Hammarskjold Plaza
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Telex Code

234722 POCO

Cable Code

POPCOUNCIL

Regional Offices

Egypt, Mexico, and Thailand; field staff are located in Bangladesh, Brazil, Colombia, Indonesia, Jordan, Kenya, and the Philippines.

AID Project Officer

Jaines Shelton
Office of Population
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

936-3005

AID Cooperative Agreement Number

DPE-3005-A-00-3003-00

Objectives

In collaboration with national governments, local agencies, and research institutions, to gather population and family planning information, accumulate and analyze demographic data, and undertake innovative family planning demonstration projects; develop new contraceptive methods; and investigate and improve health, nutrition, and family planning programs.

The principal fields of activities include:

- o family planning demonstration, research, evaluation, and training;
- o contraceptive development;
- o contraceptive introduction;
- o institutional development support;
- o information and communication; and
- o consideration of population factors in development planning.

The type of assistance varies in accordance with the various activities funded under the Project, and includes information services, research, technical consultation, training, family planning demonstration, and evaluation.

Personnel

The Council's multidisciplinary staff is available for the Project activities as needed.

Physical Facilities

The Council's principal offices in New York as well as overseas facilities are available for Project activities.

Library

The Council maintains a Library of some 12,000-15,000 volumes on population, family planning, economic development, and developing countries. Outsiders may make advance arrangement with the Librarian to use the collection.

Publications

The Council publishes the quarterly Population and Development Review in English with French and Spanish summaries. Designed to reach a high-level but not academically specialized audience, it is free of technical jargon, and is illustrated with charts, tables, and maps. It is received by 7,500 demographers, economists, development planners, population statisticians, social and behavioral scientists. There is no charge for the Review outside of North America. In North America it costs \$12 a year, \$22 for 2 years and \$33 for 3 years.

Studies in Family Planning is published in English ten times per year. These studies, accompanied by tables, charts, and maps, address key social and policy issues in the family planning field and are sent to 10,000 contraceptive technologists, family planning professionals, social and behavioral scientists. There is no charge for a subscription.

Fact Books are available at irregular intervals. They are subscribed to by 8,000 population scholars, policy makers, government officials, and program administrators. These Fact Books publish in English a mixture of technical and nontechnical articles, statistical tables with descriptive text; they are illustrated with figures, tables, and maps. Subscribers in developing countries receive Fact Books at no charge. They cost \$4.50 each to subscribers in developed countries.

Public Issues Papers are published at irregular intervals. They are in English and edited for nontechnical but well-informed audiences: science, development, health, and medical professionals; public and private policymakers; and media. The first copy of a paper is free; additional copies cost \$2.50 each.

From time to time, monographs are written for population scholars. They are technical in nature and are written in English. They are provided at no cost to readers in developing countries.

Write to the Circulation Supervisor, Office of Communications, for the Population Council's publication catalogue, or further information on the publications listed.

Data Bank Access

Data in the Population Council's data bank can be made available to researchers outside the Population Council in three ways:

- o A computer tape containing all or part of the data. The cost of the tape and its preparation is \$75.
- o A printout of a small set of data bank variables for all countries can be produced and mailed. Seven variables can be run at a time with the program and the cost is \$2.50 per run. Selection of this option requires that the necessary input data for the program be specified as described in a users manual.
- o Connecting a computer terminal of another institution via telephone to the computer used by the Population Council. This gives unlimited access to the data bank. Fixed computer costs are \$200 per month. In addition, a charge of \$5 per hour of connect time is added to the usual telephone charges.

For more detailed information, contact John Bongaarts at the Council.

Research

Over the duration of the Project, a number of research activities have been undertaken, including clinical studies and laboratory research devoted to the development and evaluation of new contraceptives as well as operational research in developing countries. Laboratory facilities of the Center for Biomedical Research are used to develop and test the various contraceptives. A number of facilities have been and are used for field trials.

Conferences

Seminars, workshops, and conferences are arranged on a variety of topics.

Funding

Specific projects are funded under the AID grant. Sub-grants are made to governmental agencies, educational institutions, and nonprofit organizations in developing countries.

RESEARCH TRIANGLE INSTITUTE (RTI)

Project: Population Development Planning (IPDP)

Project Director

Dr. A. L. Finkner, Supervisor
Dr. James C. Knowles, Project Leader

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Telex Code

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Cable Code

RESTRINS (RALEIGH)

AID Project Officer

Dr. Scott R. Radloff
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Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

932-0655

AID Contract Number

DPE-0655-C-00-0043-00

Objectives

IPDP is an AID centrally funded, multiyear, multi-country research, technical assistance, and training program designed to assist development planners to obtain a better understanding of the relationships between population growth and distribution and economic development, and to develop an awareness among planners of the need to reduce population growth rates. IPDP is a collaborative project among the Research Triangle Institute (prime contractor), the University of North Carolina at Chapel Hill (UNC-CH), the Johns Hopkins University (JHU), and The Futures Group. It supports research studies on critical population/development problems as identified by host country planners, provide technical assistance related to population matters to planners and AID missions, and provides both long and short-term training to host country planners and researchers.

History

Project activities began in October 1979 and now support research studies in Botswana, Egypt, Jordan, Nepal, Nigeria, Rwanda, Senegal, Somalia, Sri Lanka, Sudan, and Upper Volta. Technical assistance has been provided to planners or AID missions in Jordan, Mali, Mauritania, Nepal, Senegal, Tanzania, Thailand, and Zimbabwe. In addition to the annual Fall Seminar, which brings senior planners to the United States for a two-week training course on population and development planning, IPDP has provided training assistance to Liberia, Nepal, Rwanda, Senegal, Turkey, and Upper Volta.

Personnel

IPDP has a core professional staff of six persons, including three Ph.D.s, who have training in economics and demography. Four of the core staff are fluent in French, one is fluent in Arabic, and one is fluent in Chinese. In addition, IPDP draws widely on RTI's large professional staff in the social and statistical sciences, as well as on the faculty and staff of UNC-CH, JHU, and The Futures Group.

Physical Facilities

The Institute's 15 laboratory and office buildings contain 349,500 square feet of space and are equipped with an excellent complement of standard laboratory equipment and computer facilities. Capital investment in building and equipment totals over \$24 million. Laboratory and related facilities are available for chemistry and physics research, as well as studies of air and water pollution, properties of materials, radiation effects, microelectronic device fabrication, electronic device testing, trace gas analysis, and instrumentation evaluation.

Library

Availability of extensive library facilities at neighboring universities is one of the Institute's significant research resources. Cross-catalogued and shared since 1934, the combined university Libraries have the largest collection in the South. It includes approximately 7.1 million bound volumes, 78,002 current subscriptions to serials and periodicals, 4.4 million microforms, and 14.1 million manuscripts. Also, the University of North Carolina Library is the regional depository for Federal Government documents. The North Carolina Science and Technology Research Center also provides computerized information searches of more than 200 different data bases, has its own collection of more than 500,000 unpublished documents, and is located adjacent to RTI. RTI's own Library contains more than 20,000 volumes on science, engineering, social sciences, and statistics.

Other Services

Host country planners and statisticians are given assistance in the processing and analysis of existing data. Funds are available to support these activities inside the host country and at RTI.

Research

IPDP core staff assist in design of projects and with data analysis and carry out research on economic-demographic simulation models and on the economic evaluation of population activities (i.e., cost/benefit analysis, cost of effectiveness studies). Host country research has included studies on the fertility impact of nomad resettlement schemes (Somalia); the determinants of rural fertility (Egypt); cost/benefit analysis of family planning (Nepal); employment in the urban informal sector (Senegal); knowledge, attitudes, and practices of family planning (Botswana); and patterns of urbanization (Nigeria).

IPDP's Regional Office for Africa in Lome, Togo, staffed by two Togolese professionals, assists in project development and project monitoring activities throughout sub-Saharan Africa.

Training

IPDP supports both long-term and short-term training for host country planners in the fields of population economics and demography, both at U.S. institutions and abroad. In addition, the Project sponsors workshops and seminars from time to time, including a two-week seminar each fall for senior level planners on the use of demographic data in development planning.

Consulting Services

IPDP provides short-term consultants to AID missions to assist in the preparation of comprehensive population assistance strategies and to evaluate the impact of AID projects on population dynamics. IPDP can also provide short-term consultants to assist host country planning units and research organizations in the processing and/or analysis of economic or demographic data.

Conferences

Conferences, both national and regional, are held from time to time to discuss population/development issues and research methodologies. IPDP typically pays the full costs of host country participants to such events. AID missions are informed of such conferences ahead of time and are asked to nominate host country participants.

Funding

IPDP can fund those population/development research studies that receive the support of planners and AID missions. It also provides support of planners in the United States and elsewhere, and covers travel and related costs for host country attendance at IDPD-sponsored seminars, workshops, and conferences.

Requirements and Criteria

IPDP assistance is targeted to developing country government agencies having multi-sectoral planning responsibilities (e.g., central planning units) or to individuals and/or institutions carrying out activities on behalf of such planning units. IPDP assistance is limited to the population/development field and all activities must be approved by the AID Project Officer and, in the case of host country activities, by the AID mission. Interested host country nationals working in planning organizations or statistical departments in both public and private research institutions can address inquiries to the IPDP Project Leader, Dr. James C. Knowles, at the Research Triangle Institute; or the AID Project Officer, Dr. Scott R. Radloff.

RESEARCH TRIANGLE INSTITUTE (RTI)

Project: Urban Financial Management Phase II

Project Director
James S. McCullough

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AID Project Officer
David Ollinger
Office of Housing and Urban Development
Bureau for Private Enterprise
Agency for International Development
Washington, DC 20523 U.S.A.

AID Contract Number
DPE-0655-C-00-0043-00

Objectives

Phase I of the study conducted in 11 cities within eight developing countries identified existing financial management practices that could serve as models for other municipalities. Phase II will attempt to develop prototype financial management tools, including models and written manuals dealing with tax collection, cost recovery in physical infrastructure, cost recovery in non-infrastructure municipal services, and training in management and economic development enterprise.

History

Urban Financial Management Phase I began in September 1980 as part of a long-range AID program to improve financial management practices in intermediate-sized cities in developing countries. A series of case studies was conducted on successful management practices in urban finance in cities of Latin America, Africa, the Middle East, and Asia. Phase II began in October 1982 and is designed to identify mechanisms by which examples of successful management practices can be disseminated to practitioners in the developing countries.

Personnel

The core staff has experience in training and in public administration in developing countries. Specialities include public finance, municipal management or urban service delivery planning, and database management. In addition, core staff have language capabilities in French and Spanish and proven experience in working with government officials in developing countries.

Physical Facilities

The Institute's 15 laboratory and office buildings contain 349,500 square feet of space and are equipped with an excellent complement of standard laboratory equipment and computer facilities. Capital investment in building and equipment totals over \$24 million. Laboratory and related facilities are

available for chemistry and physics research, as well as studies of air and water pollution, properties of materials, radiation effects, microelectronic device fabrication, electronic device testing, trace gas analysis, and instrumentation evaluation.

Library

Availability of extensive Library facilities at neighboring universities is one of the Institute's significant research resources. Cross-catalogued and shared since 1934, the combined university Libraries have the largest collection in the South. It includes approximately 7.1 million bound volumes, 78,002 current subscriptions to serials and periodicals, 4.4 million microforms, and 14.1 million manuscripts. Also, the University of North Carolina Library is the regional depository for Federal Government Documents. The North Carolina Science and Technology Research Center also provides computerized information searches of more than 200 different data bases, has its own collection of more than 500,000 unpublished documents, and is located adjacent to RTI. RTI's own Library contains more than 20,000 volumes on science, engineering, social sciences, and statistics.

Information Exchange

Information on successful urban financial management programs has been collected from 11 different municipalities in developing countries and will be disseminated through Phase II.

Research

Research is designed to identify those practices that can be provided quickly and produce significant improvements in municipal management. While materials will be developed for application in individual countries, these will be useful in all countries with similar legal systems and financial management concerns. While there are a number of areas in which materials can be developed, it is likely that the ones developed during Phase II will be drawn from the following list:

- o municipal financial forecasting and analysis;
- o tax base information systems;
- o how-to-do-it manuals for applying local tax and licensing systems;
- o training materials for training local government officials and staff;
and
- o budgeting and accounting prototypes.

Training

The Phase I report identified the absence of training and technical assistance materials in the area of municipal financial management in developing countries. There are very few examples of training packages, how-to-do-it manuals, and descriptions of proven and effective practices. Phase II will develop the materials based on specifications developed during the needs assessment and will train the appropriate local officials and staff.

Consulting Services

Urban Financial Management provides the host country institution with consultants who assist in the conduct of needs assessments and implementation of new management practices.

Other Services

Management information systems compatible with microcomputers will be a priority item for development. Where necessary, RTI will provide technical assistance on the feasibility of systems and on the hardware appropriate for such a task.

Funding

No funds are available to sponsor research studies by host country staff.

Requirements and Criteria

The Project establishes pilot programs to strengthen selected host country institutions which are mandated to provide technical assistance and training in financial management to municipal governments.

UNIVERSITY OF FLORIDA

Project: Farming Systems Support Project (FSSP)

Project Director
Chris Andrew, Director
International Programs

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Cable Code
CENTROP

AID Project Officer
Wendell E. Morse, Jr.
Office of Agriculture
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
936-4099

AID Cooperative Agreement Number
DAN-4099-A-00-2083-00

Objectives

FSSP is designed to assist the collaborative efforts of AID missions and developing countries in building effective and viable research-and-extension programs for limited resource farmers. To foster and coordinate farming systems research and extension (FSR/E) efforts involves both technical assistance and institution strengthening. Technical assistance provides immediate help in resolving specific problems in farm production, as well as program management. Institution building--short-term applied training and communications or networking (workshops, newsletters, bibliographies, and a documentation center)--helps create within participating countries the professional expertise and commitment necessary for self-sustaining, coordinated national programs.

History

A Cooperative Agreement was signed by AID and the University of Florida in September 1982. The University leads a multi-entity (15) effort to provide technical assistance, training, and information dissemination activities. So far, technical assistance and training have taken place in Africa, Latin America, and the Caribbean.

Personnel

The core staff of six includes three agricultural economists, two anthropologists, and one communication's specialist. This staff can draw on staff resources at the 15 collaborating entities, so that all agricultural disciplines are available.

Physical Facilities

Administrative, office, and training facilities are available at the University of Florida and the collaborating entities in the United States. Facilities arranged overseas for training and networking are on an as needed basis.

Library and Information Exchange

The Project will establish a limited farming systems research and extension collection, about 500 volumes, within the Division of Development Information and Utilization Services of the Office of Evaluation, Bureau for Program and Policy Evaluation (PPC/E/DIU). Microfiche and paper copies will be supplied free of charge to research and extension personnel in developing countries and on a fee for service basis to others. Requests will be generated by an annual annotated bibliography. Requests for the bibliography should be sent to AID/DIHF/DDR, 7222 47th Street, Chevy Chase, Maryland, 20815, U.S.A.

Publications

The Project publishes quarterly in English, French, and Spanish a newsletter entitled FSSP Newsletter. It is distributed free of charge to approximately 3,000 agricultural research and extension staff in developing countries, government officials, and individuals. Subscription inquiries should be sent to the Project Director at the address above.

Training

The Project will develop two short-term (one to two weeks) training courses, one for agricultural research and extension personnel and one for policy makers, administrators, and educators. Both courses will cover the same topics, but have different emphases and different purposes. Topics include areal diagnosis of whole-farm systems and identification of remedial activities, experimental design, initiation of on-farm experiments with farmer participation, monitoring of field experiments, collection of data, analysis and interpretation of agronomic and economic data, and participation of extension workers to disseminate proven technology. All practitioner training courses will include actual field work.

Both the practitioner and administrator courses will be given in the prevalent professional language and at an appropriate location in each country. In most instances, the courses will be held at an international agricultural research center, a national agricultural research station, or an agricultural college. The selection of a particular institution will depend upon the proximity of target group farmers. Where there exists a national FSR/E program, a national agricultural institution will be the preferred site.

Consulting Services

Technical assistance will be provided at mission request to resolve problems that arise at any stage of the project cycle in farming systems programs. Cost share arrangements will be worked out on a case-by-case basis. It is expected that missions will contribute one-third of activity costs over the long run. Interested parties should contact the local AID mission.

Requirements and Criteria

Services are available only through AID missions.

UNIVERSITY OF FLORIDA

Project: Training in Alternative Energy Technologies (TAET)

Project Director
Dr. Erich A. Farber

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Solar Energy and Energy
Conversion Laboratory
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AID Project Officers
Alan Jacobs, Director
Shirley Toth, Program Operations Assistant
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Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
936-5716

AID Cooperative Agreement Number
AID/DSAN-CA-0188

Objectives

AID, through a cooperative agreement with the University of Florida, has established an educational program offering to representatives from developing countries training and consulting assistance in both the technical and socioeconomic aspects of the application of alternative energy technologies. As part of the program, 40 participants are invited to attend each training session conducted at the University of Florida. The participants follow a curriculum composed of classroom instruction, seminars, laboratory sessions, field trips, and various research projects conducted by groups of participants with specialized interests. In certain instances, the consultative assistance offered to the participants may extend beyond the training period.

History

From October 1979, when the Project was started, through May 1983, seven training sessions, attended by approximately 300 participants representing 59 different countries, have been conducted. An eighth session is scheduled from August 22 to December 9, 1983. A total of 10 sessions will be conducted through the end of 1984.

Personnel

In addition to the Director, there are two instructors, a technical director, three laboratory assistants, program administrators, and staff assistants.

Physical Facilities

Sessions are conducted in a self-contained training and research facility composed of auditorium, classrooms, shop and laboratories, reading room, canteen, and offices. A well-equipped laboratory and shop as well as a unique

collection of apparatus, working models and commercial equipment related to solar and other alternative energy technologies are available to the participants.

Library

There is a Library for the participants' use with 6,000 reports, periodicals, reference materials, catalogues, periodicals, etc., on alternative energies. This material supplements the University of Florida Libraries.

Research

Research is normally not conducted as part of the program. However, the participants are exposed to a number of research projects on campus. Assistance in developing research projects in the participants' countries may be obtained as part of the follow up consultation assistance offered through the program.

Training

Each session is 15 weeks long and is designed to provide training for scientists and engineers with a university level degree and two years of related work experience. All instruction is given in English and the ability to comprehend, read, and write English as indicated by TOEFL scores or equivalent is required. A diploma is awarded to each participant completing the course.

Consulting Services

Provisions are made in the cooperative agreement for follow-up consulting services by the program staff, as authorized by AID.

Funding

Selected candidates from developing countries are eligible to receive funds to cover: (1) the cost of housing during the training sessions; and (2) a living allowance while participating in the program.

Requirements and Criteria

Selected candidates are invited to participate in the program by AID/Washington acting in consultation with AID missions. It is essential that each applicant notify the appropriate AID mission of his or her interest in participating in the program.

UNIVERSITY OF FLORIDA, ANIMAL SCIENCE DEPARTMENT

Project: Development of Efficient Mineral Supplementation Regimes for Grazing Ruminants in the Tropics

Project Directors

Drs. J. H. Conrad and L. R. McDowell

Telephone Number

(904) 392-1911

Address

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Animal Science Department
Animal Science Building, Room 125
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AID Project Officer

Dr. Charles E. Haines
Office of Agriculture
Bureau of Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

931-0600

AID Contract Number

AID/ta-C-1153

Objectives

The project has four main goals:

- o to experimentally determine the locations of mineral deficiencies, adequacies, and toxicities in selected areas of tropical countries where grazing livestock predominate;
- o to establish, by experimentation, the biological response and economic benefit of mineral supplementation to grazing animals;
- o to experimentally evaluate methods of mineral feeding and supplementation for grazing cattle; and,
- o to publish and distribute research information in order to stimulate the widespread use of mineral supplements.

History

In 1974, the University of Florida received a contract to investigate the mineral status of grazing livestock in tropical countries. Since that time, the program has been functional in a number of tropical countries:

- o Latin America: Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Panama, Mexico, Uruguay, and Venezuela;
- o South East Asia: Indonesia, Malaysia, the Philippines, and Thailand;
- o Africa: Malawi, Sudan, and Zaire.

Experiments designed to pinpoint mineral deficiencies and excesses for specific farms and regions have moved forward in each participating country. Research data are further confirming the incidence of phosphorus deficiency and the production benefits from supplementation. The majority of countries have likewise established borderline to severe copper deficiencies in grazing cattle.

The majority of the research is cooperative between the Department of Animal Science, various universities, Ministries of Agriculture, and experimental stations in the particular countries.

Physical Facilities

The Department of Animal Science at the University of Florida makes available to the program laboratories for tissue collection and analysis, especially for more difficult analyses including cobalt, selenium, and molybdenum. Students trained under the program make use of all University facilities.

One of the principal goals of the program is to stimulate mineral research within the participating countries. To accomplish this, laboratories have been assisted by the purchase of chemicals, consumable supplies, and, occasionally, small equipment. As part of building up laboratory capabilities, three-month laboratory training short courses are held in Florida for laboratory technicians from participating countries.

Information Exchange--Data Bank

The University of Florida in Gainesville, as part of this project, operates a computer-based system which provides information free of charge to public institutions on mineral deficiencies and toxicities of grazing ruminants in tropical zones, and programs to correct such conditions.

Results of research in the participating countries are disseminated, as well as information on methodology of collecting and analyzing appropriate samples for mineral concentrations.

Publications

Publications resulting from the mineral research program have included journal articles, abstracts, theses, conference proceedings, Annual Reports, popular articles, and extension or experiment station bulletins. To further assist laboratories and standardize procedures, the second edition of "Methods of Mineral Analysis for Plant and Animal Tissues" was published in English, Spanish, and Portuguese. All materials are available for distribution to appropriate researchers.

Research

The research can conveniently be divided into a tissue collection and analysis phase and a mineral supplementation phase. Animal and plant tissues obtained from specific livestock farms can be analyzed for mineral concentrations. On the basis of the tissue concentration of each mineral, specific mineral deficiencies and toxicities can be established for selected livestock producing

regions. Information from a number of farms in many areas can be compiled and, by use of mapping technique, research data will provide evidence of mineral deficiencies and toxicities in large livestock grazing areas.

During the mineral supplementation phase, the production and economic benefits of mineral supplementation to grazing livestock can be established.

The combined mineral studies will make it possible to obtain a comprehensive impression about the occurrence of mineral deficiencies, toxicities, and imbalances in grazing livestock and provide the methodology for dramatic improvement in livestock production.

Training

The Project encourages additional training in animal nutrition for qualified individuals. The mineral research program fits very well into M.S. or Ph.D. degree programs. At the present time, 11 M.S. or Ph.D. degree programs are in progress representing the countries of Bolivia, Brazil, Colombia, the Dominican Republic, Guatemala, Malawi, Sudan, and Venezuela. Degree research programs are being carried out in the home countries for seven of the 11 students. Theses resulting from these studies are published and available from the program. Three-month laboratory training short courses are held in Florida for laboratory technicians. Tentative plans to initiate new mineral-oriented M.S. or Ph.D. degree programs in Colombia, Mexico, Panama, and Thailand are underway.

Consulting Services

Project personnel work on a consulting basis in the participating countries and can be available to other countries interested in the fields of mineral research and animal nutrition.

UNIVERSITY OF HAWAII

Project: Nitrogen Fixation by Tropical Agricultural Legumes (NifTAL Project)

Project Director
Dr. Jake Halliday

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University of Hawaii
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Telex Code
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Cable Code
NifTAL

Mailing Address
NifTAL Project
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AID Project Officer
Dr. Lloyd R. Frederick
Office of Agriculture
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-0613

AID Contract Number
DAN-0613-C-00-2064-00

Objectives

The purpose of the NifTAL project is to help farmers in the developing countries step up production of high protein foods with reduced dependence on costly nitrogen fertilizers. The goal is to support development of at least one institute in each of the developing countries as a resource center for agrotechnologies based on biological nitrogen fixation (BNF).

History

The early years of the Project, 1975-79, were concerned with the development of the Maui-based operations, including the assembly of a substantial Rhizobium collection and its evaluation. A practical training course was designed and perfected. In 1978, the Project moved into an outreach mode with the initiation of the International Network of Legume Inoculation Trials (INLIT) and the delivery of training courses at developing country institutions. Current emphasis of the project is outreach and technology adaptation.

Personnel

Project staff consists of professional researchers in agronomy, soil science, and microbiology; a biochemist; a communications and training specialist; research associates in agriculture and biology; and technical and clerical support staff.

Physical Facilities

Facilities have been developed on a former high school campus and include: administration building, seminar room, general services laboratory, stores, inoculant production plant, germ plasm unit, growth room, two microbiology laboratories, soils laboratory, recreation room, apartments (one double, two single), Library, reading and study room, greenhouses and field plots (several sites).

Lab facilities are spacious and equipped for applied research on legumes. Field sites on Maui cover a wide range of soils and climatic regimes representative of many developing country locations.

Library

There is a collection of over 6,500 documents on biological nitrogen fixation by legumes. Inquiries should be sent to Information Section.

Publications

The BNF Bulletin is published three times a year. It is written in English and sent free of charge to 1,500 researchers/agricultural administrators/donors. A four-page bibliographic update on the legume/Rhizobium symbiosis is included.

Research

Superior strains of Rhizobium for several legumes and improved techniques for producing inoculants have been developed. Some new research procedures appropriate for low budget laboratories are also available. Project staff are able to offer assistance to researchers in developing countries.

Main research service relates to the International Network of Legume Inoculation Trials (INLIT) which is a program of field/lab research to determine the economic value of BNF technology at a local level. Specially marked strains of Rhizobium and methods for following their survival/competition in tropical soils are provided.

No charge is made when service is within the framework of INLIT. Other research services are provided after negotiation with requestor and sponsors. Inquiries should be sent to Dr. Jake Halliday.

Training

- | | |
|-----------------------|---|
| (1) Graduate training | Ph.D. (Agronomy/Soil Sciences)--2/4 years
(at University of Hawaii; must comply with entrance requirements); |
| (2) Overseas courses | Certificate of accomplishment--6 weeks; |
| (3) Intern program | Certificate of accomplishment--2-6 months. |

- Fees*: (1) None if awarded NIFTAL graduate assistantship;
(2) None if from AID eligible country (others by negotiation);
(3) None if accepted from AID eligible country (others by negotiation).

Understanding of English is essential. Accommodations are available for three persons at Maui site. Inquiries should be sent to Training Section.

Consulting Services

Project staff undertake consulting. Cost depends on relation of request to Project-contracted objectives. Some services can be undertaken at no cost to requestor. Longer consultations or those that require special scheduling are costed by negotiation and usually require reimbursement of direct costs only (not salary).

Conferences

Conferences are organized (infrequently) on applied aspects of Biological Nitrogen Fixation; locations vary depending on co-operators. To get on the mailing list, please advise Information Specialist.

Requirements and Criteria

Requests for assistance from the Project should be channeled through the local AID mission.

*Categories described under Training, above.

UNIVERSITY OF HAWAII AT MANOA

Project: Crop Production and Land Capabilities of a Network of Tropical Soil Families

Popular name: Benchmark Soils Project (BSP)

Project Director

J. A. Silva, Principal Investigator

Telephone Number

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Address

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University of Hawaii
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Cable Code

UNIHAW

Field Stations

Ekona, Cameroon; Bogor, Indonesia; Naga City, the Philippines

AID Project Officer

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Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

931-0582

AID Contract Number

AID/ta-C-1108

Objectives

The Benchmark Soils Project was established to test the hypothesis of agrotechnology transfer within the tropics, based on the soil classification system, Soil Taxonomy. A network of 25 experimental sites has been established on three soil families in six tropical regions, including Cameroon, Hawaii, Indonesia, and the Philippines from this Project; and Brazil and Puerto Rico from the University of Puerto Rico project (AID/UPR contract no. ta-C-1158). The transfer and variety experiments compare results within and between soil families; a series of cropping system patterns has been installed for each family. Cooperation exists with the General Delegation for Science and Technology Research (DGRST), Yaounde, Cameroon; Center for Soil Research (CSR), Indonesia; and Philippines Council for Agriculture and Resources Research (PCARR); and working agreements exist with several other national and international agencies and organizations.

History

The Project has systematically expanded its operational base from Hawaii and the Philippines during the initial contract period (1974-77), to Indonesia and Cameroon during the first extension phase (1977-80), and is now managing 17 experimental sites during the second extension (1980-83). Base of operation in each country is with the counterpart host country agency. Operational management continues to be the campus of the University of Hawaii.

BSP workshops on soil taxonomy and agrotechnology transfer have been held in Indonesia, the Philippines, and Cameroon. BSP is working with the Soil

Management Support Services (AID PASA no. AG/DSB-1129-5-99) to provide further training and technical assistance. A data bank for matching soil and crop information with climate is being developed. Information on Project activities and results is extended through publications, audiovisuals, and displays.

Personnel

Professional: nine agricultural scientists (agronomy, soil science); two computer specialists/statisticians; one publications specialist.

Nonprofessional: one administrative assistant; four clerk/typists; one fiscal support; 18 agricultural assistants.

Physical Facilities

Project personnel have access to most facilities of the University of Hawaii campus at Manoa.

Publications

The Project's quarterly newsletter, Benchmark Soils News, is distributed free of charge to more than 1,200 planners, administrators, scientists, and students in 68 developing and 20 developed countries. It is illustrated and prints in English a mixture of technical and nontechnical articles which provide awareness of project activities and results.

Training

Ph.D./M.S. programs are limited to qualified students from countries participating with Project activities. Non-degree workshops on soil classification and agrotechnology transfer are held in host countries. English is the medium of communication.

Consulting Services

A list of Project personnel available for short-term consulting may be obtained by writing to Benchmark Soils Project, above. Fees, per diem, travel costs, and support services must be provided for.

Other Services

Videotapes or slide/tape cassettes are being developed and will be available on loan in the near future for classroom or other educational users. A model data bank is available. Inquiries should be directed to the Publications Specialist.

Conferences

Conferences on agrotechnology transfer in the tropics can be arranged. Inquiries should be sent either to the AID Project Officer or the Principal Investigator for BSP.

UNIVERSITY OF HAWAII AT MANOA,
JOHN A. BURNS SCHOOL OF MEDICINE

Project: Primary Health Care Systems (MEDEX)

Project Director

Richard A. Smith, M.D., Director

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Telex Code

MEDEX 634144

Cable Code

MEDEX (Hawaii)

AID Project Officer

Rosalyn King, Ph.D.
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Agency for International Development
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AID Project Number

931-1180

AID Contract Number

DPE-1180-C-00-0007-00

Objectives

The objective is to complete the development of the MEDEX technology started in Phases I and II and to provide technical assistance to selected developing countries in the design and operation of integrated MEDEX primary health care (PHC) projects. Technical assistance in adaptation of prototype materials, as well as program implementation in health manpower development and operations management, is available from the University of Hawaii's Health Manpower Development Staff (HMDS), and, under subcontracts, from MEDEX groups at the University of North Dakota and the University of Washington.

History

Successful training and deployment of mid-level health workers (MLHWs) by U.S. MEDEX programs has been carried out since 1969. Since 1974, the University of Hawaii's MEDEX Group (HMDS) has been involved in assisting other countries to develop PHC programs which include mid-level health workers. Initially, MLHW training assistance provided to Thailand and Micronesia led also to training of community level health workers there. Such community health workers became an integral part of MEDEX's view of tiered manpower for PHC systems. Management support, found to be inadequate in most PHC systems, has now become a fundamental part of MEDEX technical assistance.

Personnel

In addition to the Director and the Deputy Director, there are staff with appropriate training and experience in PHC systems. The senior manpower development specialist has an M.P.H. in International Health. Other professional staff (12) include specialists in manpower and curriculum development, management specialists, and the MEDEX Guyana and Lesotho Project Coordinators.

Physical Facilities

All facilities of the University of Hawaii and of the Research Corporation are available to the Project.

Specific project resources are:

- o HMDS Library;
- o conference rooms;
- o incountry project offices and facilities.

Library

There are 2,100 catalogued items on primary health care, community health workers, health worker training, health planning and management in the Library. There is no charge for use. Any interested person may use the Library. Inquiries should be sent to Librarian, HMDS.

Audiovisual (including videotape) facilities and services of the UH Instructional Resources Unit are available to the Project and to institutions with contractual relationships with it. Inquiries should be sent to the Project Director.

Research

Although the Project is not research-oriented, long-term field investigations of the efficacy of training and systems development approaches and materials are being carried out as parts of primary health care development activities in several countries.

Indirect services are available to institutions involved in contractual relationships with HMDS (provision of information and advice regarding the feasibility and advisability of changes or practices proposed for research or implementation, especially in countries with which HMDS has worked). Inquiries should be directed to HMDS Director.

Training

The Project provides for:

- o technical assistance and prototype materials for the development of competency-based 12 to 18 months mid-level health worker training programs;
- o mid-level health workers and others to be trained as trainees and supervisors of community (village) level health workers;
- o preparation of mid-level health workers to work as trainers in competency-based training programs, through workshops lasting several weeks; and

- o short-term (1 to 8 weeks) orientation for long- and short-term advisors to primary health care projects.

Qualifications required of training participants depend on the nature of training. Competency-based training allows flexibility. No degrees or certificates are issued other than those provided by institutions within the host country. In Hawaii, the language of instruction is English (with limited simultaneous translation available). In host countries, instruction is given in both English and the local languages (using host-country trainers).

Tuition and fees in Hawaii are paid for from contract funds and in host countries, generally by the national government.

Conferences

Two international conferences have been held in Hawaii to facilitate exchange of information and experiences among PHC programs with which HMDS has collaborated. Three conferences have been held involving HMDS and MEDEX groups from the Universities of Washington and North Dakota, to exchange information and increase mutual capability to respond to the needs of PHC programs. Additional conferences are to be held (in Washington and Hawaii, and perhaps elsewhere) to introduce the PHC approaches and materials which have been developed and to initiate and encourage their use by others (with HMDS welcoming additional opportunities to collaborate in such efforts).

Requirements and Criteria

The MEDEX Primary Health Care Series and services are designed to be of use to those institutions expanding or strengthening development of manpower and management systems for primary health care. Information for potential users is presented in information brochures prepared by HMDS and available from the AID Project Officer. The Series prepared by HMDS includes guidelines for the materials' adaptation and use.

UNIVERSITY OF IDAHO
POSTHARVEST INSTITUTE FOR PERISHABLES (PIP)

Project: Storage and Processing of Fruits and Vegetables

Principal Officer
Robert L. Skiles, Director

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TWX 510 776 0923
UI CID MUCW

AID Project Officer
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Washington, DC 20523 U.S.A.

AID Project Number
931-1323

AID Cooperative Agreement
AID/DSAN-CA-0265

Objectives

PIP's goals and objectives are:

- o to increase the availability (without increasing the production areas) of fruits, vegetables, tubers, roots, spices, and oilseeds and to enhance the basic diet of people in developing countries by reducing postharvest food losses;
- o to reduce costs of these perishable commodities by improving the efficiency of marketing; and
- o to encourage development of processing and other industries associated with perishable crops.

The principal fields of activity through which PIP works towards its goals are technical assistance teams; short courses, workshops, and seminars; information services; and specialized training.

History

Since 1980, PIP has received and filled technical assistance requests from Bangladesh, Barbados and three neighboring islands, the Dominican Republic, Haiti, India, Jamaica, Pakistan, Paraguay, the Philippines, Thailand, and the Yemen Arab Republic. Short courses or seminars have been conducted in Ecuador, Nicaragua, Panama, Thailand, and the Yemen Arab Republic.

The PIP Information Center (PIP/IC) serves 350 clients in 65 developing countries and eight developed countries. Cooperative work in assistance has been done with the Asian Development Bank; the International Potato Center, Peru; the U.S. Peace Corps; and the University of Florida.

Personnel

The Project has a small administrative staff (eight) in its headquarters at the University of Idaho. PIP has available 720 specialists on a computerized roster for short-term consultancy; these specialists have expertise in areas such as economics, entomology, food technology, engineering, plant pathology and physiology, rural sociology, horticulture, and many other subjects.

Physical Facilities

The PIP business office houses the administrative personnel, computer and word processing equipment, and the telecommunications equipment. The Information Center houses information staff, a computer, a 3M microfiche camera-processor, duplifice printer, NP Matic Reader Printer, and developer. There are two small conference rooms. The Project staff and specialists have general use of all University of Idaho facilities and services.

Library

The PIP Library contains 5,500 publications dealing with transportation, storage, marketing, packaging, appropriate level technology, loss estimation, handling, drying, and processing of perishable commodities. Copies of publications and information are available free of charge to requestors in developing countries. Persons in developed countries are assessed a nominal fee for services: PIP's cost of reproducing documents or developing bibliographies.

Information Exchange

PIP/IC does have an information exchange and seeks non-book information exchange. Formal exchanges have been established with:

- ASEAN Postharvest Training and Research Center (Los Banos, Philippines)
- College of Tropical Agriculture, University of Hawaii (Honolulu)
- Equatorial Guinean Ministry of Agriculture (Malabo, Equatorial Guinea)
- Institute of Development Studies (Brighton, United Kingdom)
- International Center for Tropical Agriculture (CIAT, Cali, Colombia)
- International Development Research Center (IDRC, Ottawa, Canada)
- International Trade Center of UNCTAD/GATT (Geneva, Switzerland)
- International Potato Center (CIP, Lima, Peru)
- Philippine Ministry of Agriculture (Quezon City, Philippines)
- Philippine Root Crop Research and Training Center (Visayas)
- Rwandan Ministry of Agriculture (Kigali)
- Tanzanian Documentation Center (TANDOC, Dar es Salaam)
- Thai Institute for Science and Technical Research (TISTR, Bangkok)
- A consortium of Thai Agricultural Colleges (Chiang Mai)
- Tropical Development and Research Institute (TDRI, London, United Kingdom)
- United Nations Industrial Development Organization (UNIDO, Vienna, Austria)
- Volcani Institute (Bet Dagan, Israel)

Documents are supplied primarily in English, French, and Spanish. There are no charges for exchanges with developing country clients or developed country clients. For information, write to Paulette F. George, Library, Room 314, University of Idaho, Moscow, Idaho, 83843, U.S.A.

Publications

PIP distributes a biannual publication, Gleanings, an illustrated, nontechnical document, to about 800 decision makers in developing countries and experts in postharvest perishables. The publication is printed mostly in English and is free of charge. For information, please write to Paulette F. George at the address above.

Project Research

PIP conducts adaptive research on development of low-cost solar dryers for preservation of perishable foods in developing countries. The Institute also carries out limited research on low-cost technology for perishable food crop loss reduction in developing countries. For more information about research activities, write to the Director, PIP, at the address above.

Training

PIP sponsors a limited number of students each year from developing countries for training (non-degree or M.S. level) in postharvest technology, providing tuition and fees. Degree courses are usually two years in duration. Non-degree courses generally last less than two years. Students must have TOEFL scores that are required by the U.S. university where the studies will take place.

Consulting Services

PIP can provide consultants in any phase of postharvest loss reduction in perishable crops; for example, specialists in harvesting, handling, transportation, packaging, storage, refrigeration, marketing, export, research education, and extension education. Within certain defined limits PIP pays the salary, per diem, and travel expenses for the services of these consultants to developing countries.

Requirements and Criteria

PIP's services are free of charge to developing country clients only and only where there are AID missions. Services are limited to technical assistance related to postharvest loss reduction in perishable crops.

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL (UNC-CH), SCHOOL OF MEDICINE

Project: Training of Paramedical, Auxiliary, and Community Personnel
Popular name: Program for International Training in Health (INTRAH)

Project Director

James W. Lea, Ph.D., Director
Associate Professor
School of Medicine

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Cable Code

INTRAH Chapel Hill, NC

AID Project Manager

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Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number

932-0644

AID Contract Number

AID/D SPE/C-0058

Location of Field Office

INTRAH Regional Office, Nairobi, Kenya

Objectives

To meet its goal of developing and upgrading developing country paramedical, auxiliary, and community (PAC) personnel training systems so that developing countries will have sufficient capability to plan for and implement their own maternal and child health/family health (MCH/FH) PAC training programs, INTRAH has set the following objectives:

- o to strengthen and expand existing institutions and agencies which conduct pre-service and inservice PAC training for the delivery of MCH/FH services;
- o to design, test, and implement new health training systems models which can be widely adapted and institutionalized throughout the region;
- o to strengthen country PAC pre-service and inservice program development, management, and training capabilities related to MCH/FP;
- o to establish capabilities on subregional, country, and local levels to produce, distribute, and use family planning teaching materials;
- o to establish and maintain regional and subregional systems for consultative support of training programs;
- o to train upper-level health systems planners and administrators; and
- o to strengthen leadership and management capabilities of PAC personnel, especially women.

INTRAH currently has formal working arrangements in the form of subcontracts and memoranda of understanding with the University of California at San Francisco; the International Center for Training in Population and Family Health (INCTPFH), Zion, Illinois; the American College of Nurse/Midwives, Washington, DC; and with the following governments and agencies in Africa and the Middle East for the provision of training services:

Egypt

- o Institute for Training and Research in Family Planning (active contract)
- o Ministry of Health/Higher Institute of Nursing (active contract)

Kenya

- o National Council of Women of Kenya (active contract)
- o Ministry of Health (active contract)

Morocco

- o Ministry of Health (active memorandum of understanding)

Somalia

- o Ministry of Health (active contract)

Swaziland

- o Family Life Association (active contract)
- o Ministry of Health (active contract)

Tunisia

- o National Family Planning Office (active contract)

History

The Project was initiated on October 1, 1979. Since then health training needs assessment, program planning, training implementation, and country program evaluation/trainee follow-up in the area of MCH/FH (including field study plans) have been completed or are currently underway in the following countries: Benin, Congo, Egypt, the Gambia, Ghana, Guinea, Kenya, Mali, Mauritania, Morocco, Nigeria, Rwanda, Senegal, Sierra Leone, Somalia, Sudan, Swaziland, Tanzania, Tunisia, and Turkey.

INTRAH convened the first meeting of its Regional Advisory Group (official representatives of African and Middle Eastern countries) in Nairobi, Kenya, June 1981, and the second in Antalya, Turkey in May 1982.

INTRAH is in the process of developing training and resource packages, as well as country and regional manuals.

Scholarships have been awarded to representatives of the following countries: Botswana, Ghana, Lebanon, Lesotho, Liberia, Mali, Nigeria, Sierra Leone, Sudan, Swaziland, Tanzania, and Uganda.

Personnel

Central staff (22)--administers, plans, and develops INTRAH program activities; composed of health professionals, educators, trainers, administrators,

evaluators, and specialists in the design and development of educational materials and publications.

Training Development Consultant Pool (44)--(AID approved to date)--health and education experts.

Physical Facilities

Central Office, Chapel Hill--offices, conference room, small Library, Telex, computer terminal.

UNC-CH facilities--Libraries, classrooms, studios, computer center, clinical rooms, bibliographic search equipment, etc.

Kenya Field Office--three offices, basic equipment; Telex available through the Ministry of Health.

Library

The INTRAH Library collection contains approximately 1,500 monographs and 100 journal and periodical titles. Other materials in the collection include reprints, selected U.S. and other country government documents, and documents of international organizations. Materials cover the general subject areas of family planning, maternal and child health, socioeconomic conditions in developing countries, and educational materials design and development.

The INTRAH Library is used primarily by program staff, but is open to UNC-CH faculty and students, consultants, visitors from Africa and the the Middle East, and others involved in international development work. It is staffed by a part-time graduate student assistant and is under the general direction of INTRAH Supervisor of Publications. There is no charge for use. Generally, materials are not removed from the Library.

Information Exchange

Using field study results and a computerized recordkeeping and reporting system, the INTRAH Evaluation Unit shares training information and findings with government officials, former trainees, and others in those countries where INTRAH-sponsored training activities have taken place.

On a more informal basis, the INTRAH Information Officer exchanges publicity, information documents, and periodic papers with colleagues in the United States, Africa, the Middle East, and other regions. In addition, the coordinators of the various INTRAH technical specialty units exchange ideas and materials with their colleagues in the United States and overseas.

Periodically, INTRAH will set up information booths at selected conferences and seminars in order to share information with others. A slide show, documents, reports, posters, teaching materials, publicity information, etc., usually constitute this type of information exchange.

Printed materials are often available in French.

On special occasions, INTRAH will provide literature searches to select requestors.

All services are free of charge.

Publications

The Journal of Family Health Training is published quarterly. Available in both English and French, the illustrated Journal covers maternal and child health and family planning, clinical and nonclinical; management; supervision; primary health care training; and curriculum and teaching materials development for an audience of African and Middle Eastern MCH/FP trainers, managers, planners of service, and service personnel. It has a circulation of approximately 2,500. There is no charge for subscriptions. Subscription inquiries should be addressed to Ms. Sandra P. Mills, Editor, Journal of Family Health Training.

Research

Applied evaluation research at INTRAH includes field studies--which objectively determine the impact of training upon trainees in their workplace--and country program evaluations. At this time, research results are not ready for application. In conducting this research, INTRAH's intention is to generate a self-sustaining group of African and Middle Eastern professionals who are skilled and experienced in evaluative techniques. This would allow increasing responsibility for the evaluation of established and new programs to be undertaken by country and local personnel. This group would be available to study the effects of any similar efforts undertaken by their countries, with or without donor assistance. In-country evaluative research costs are included in program contracts between INTRAH and participating countries. Inquiries should be sent to Mr. Bruce Bennard, Evaluation Coordinator, INTRAH.

Training

There are two main areas for potential INTRAH training involvement: pre-service training and inservice training. In pre-service training, INTRAH works with Training Units in the Ministries of Health and/or other appropriate agencies to provide basic education to new health personnel. INTRAH collaborates and consults with tutors to introduce new teaching methods, implement new curriculum and evaluation developments, and build capabilities for designing and producing educational materials within an MCH/FP context. In its inservice training, INTRAH works with agencies providing family planning/maternal child health services such as national FP organizations, church groups, and Ministries of Health and other institutions to strengthen the continuing education programs for practicing health workers. INTRAH can provide information in MCH/FP skills, design workshops in management and supervision, and strengthen health personnel training on local, provincial, community, and trainer levels.

INTRAH provides:

- o workshops in service areas for inservice personnel (one to two weeks);
- o onsite workshops for trainers (one to four weeks);

- o incountry workshops and seminars for training directors and country resource persons (two to six weeks);
- o workshops incountry for tutors, curriculum planners, departmental heads (two to four weeks);
- o working sessions incountry for producing teaching materials (two to four weeks);
- o national conferences and workshops for upper-level planning and administrative personnel (two weeks);
- o intraregional training institutes for subregional resource persons and country trainers (three weeks to two months);
- o intraregional observational visits and development conferences for upper-level personnel (two weeks);
- o interregional observational and study trips for upper-level key personnel (one to three months); and
- o team or individual consultations to countries for assistance to country personnel in planning, conducting, evaluating, and following up training activities (two weeks to three months).

Languages: English, French, Arabic

INTRAH's contract and policy guidelines provide for support of training developments through:

- o direct training development by INTRAH Program Staff, including financial support for specific training activities;
- o consultation by regional and nonregional professionals;
- o subcontracts with U.S. or third-country institutions or agencies to provide for specific training functions;
- o subcontracts with host country governments or institutions to define and support the initiation of training programs which will receive long-term support; and
- o regional training at selected centers in Africa and the Near East.

Inquiries should be sent to INTRAH.

Other Services

A linking resource available to INTRAH is the educational materials and training expertise developed by the African Health Training Institutions Project (AHTIP)--Chapel Hill. During 1973-79, the main objective of AHTIP was to strengthen family health training. Seminars and workshops held in this connection produced over 200 self-instructional units in family health, case

studies, "how-to" manuals, and outlines for curriculum development. The materials are available at cost from the African Medical Research Foundation, Wilson Airport, Nairobi, Kenya. French versions of some of these materials are available and inquiries for these should be addressed to Educational Materials Coordinator, INTRAH.

Requirements and Criteria

To develop sustained national training capabilities for non-physician MCH/FP service personnel in Africa and the Middle East, INTRAH emphasizes a collaborative, systematic development strategy for long-term, quality training programs. This strategy, which includes the provision of technical assistance through each phase of the program development process, already has borne positive results in various countries: health officials are realizing procedures for clarifying their needs and objectives; national training teams are being considered as a viable means of reaching large numbers of health workers; institutions and organizations with common interests and directives are interacting; and new training mechanisms and plans are being put into effect. Finally, INTRAH's training partners are actively assuming more responsibility for training or are being prepared for responsibilities in new areas.

Upon request, specific guidelines and forms for collaboration and involvement with INTRAH will be provided. Inquiries should be sent to Dr. James W. Lea, Director, INTRAH.

U.S. DEPARTMENT OF AGRICULTURE (USDA)

Project: Food and Nutrition Technical Services

Project Director
Paul R. Crowley

Telephone Number
(202) 447-9206

Address

U.S. Department of Agriculture
Room 3919-S
14th Street and Independence Avenue, SW
Washington, DC 20250 U.S.A.

AID Project Officer
Dr. Nicolaas Luykx
Office of Nutrition
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Number
931-0831

AID RSSA Number
USDA/RSSA 1-74

Objectives

Through a Resources Support Services Agreement, this Project provides short-term technical assistance to AID missions and counterparts in developing countries on food technology as related to improving nutritional status of infants, preschool children, and pregnant and lactating women.

History

The Project was initiated as a means of making USDA personnel and other resources available to AID in support of AID's nutrition program. As the Project developed, USDA also became a vehicle for drawing technical assistance from universities, private companies, and individual consultants for use in AID-supported projects.

Personnel

USDA professional staff; three food technologists and one part-time nutrition programmer. Additional staff are made available through ongoing Cooperative Agreements with several universities and from other sources on an ad hoc contractual basis.

Physical Facilities

Food development and testing facilities in the United States are available through cooperators and contractors.

Publications

The LEC Newsletter is published quarterly. It prints technical articles in English for some 200 technologists and nutrition programmers. There is no charge for a subscription. Subscription inquiries to: Dr. Judson Harper, Editor, Colorado State University, Fort Collins, Colorado, 80523, U.S.A.

Research

This Project is primarily to assist with the implementation of nutrition projects aimed at alleviating malnutrition and does not, unless as a part of this, become involved in research.

Training

Training is not offered except on an ad hoc basis in connection with implementation of specific projects.

Consulting Services

Short-term technical advisors and limited commodities and/or local contract services are provided by the Project. Salary, travel, per diem, etc., are furnished through AID when services are requested by an AID mission and approved by AID/Washington.

Requirements and Criteria

This Project is designed primarily to assist AID missions and counterparts in the development, implementation, and evaluation of projects which are funded by AID or other sources; the Project can not be considered as a principal source of funding for projects, only as a support for nutrition-oriented projects which require limited technical assistance.

VOLUNTEERS IN TECHNICAL ASSISTANCE (VITA)

Project: Low-Cost Energy Technologies for Rural and Urban Poor

Project Director

Henry R. Norman, Executive Director

Telephone Number

(703) 276-1800

Address

VITA, Inc.
1815 North Lynn Street, Suite 200
Arlington, VA 22209 U.S.A.

Telex Code

440192 VITA UI

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VITAINC

Mailing Address

VITA, Inc.
P.O. Box 12438
Arlington, VA 22209 U.S.A.

AID Project Officers

Eric Peterson
Office of Energy
Bureau for Science and Technology
Agency for International Development
Washington, DC 20523 U.S.A.

AID Project Numbers

936-5701; 938-2037

AID Contract Number

PDC-0237-A-00-2109-00

AID Cooperative Agreement Number

AID/SOD/PDC-G-1049

Carole Millikan
Office of Private and Voluntary Cooperation
Bureau for Food for Peace and
Voluntary Assistance
Agency for International Development
Washington, DC 20523 U.S.A.

Objectives

The purpose of the Project and the Cooperative Agreement is to provide information on alternative small and medium energy technologies and on appropriate technology in the following fields: renewable energy applications, agriculture and food processing, water supply and sanitation, housing and construction, and small business development. VITA answers requests for information from individuals, institutions, and governments. Information is drawn from the VITA Documentation Center containing over 25,000 documents, and from VITA's 4,000 volunteer experts. More than 3,000 requests are handled annually.

History

In 1959, a group of scientists, engineers, and entrepreneurs with a sense of social responsibility created VITA. It has grown into a major private nonprofit organization, providing technical assistance to individuals and groups in more than 100 developing countries.

Personnel

VITA has 50 U.S.-based personnel and six staff members assigned overseas. Of these, approximately one-third are technical advisors or technical inquiry coordinators, with skills in fields such as wind energy, solar energy, engineering, agriculture, economics, and computer science.

Physical Facilities

VITA headquarters has two conference rooms, a Documentation Center with reading room, and three computers. VITA has field offices in Bangkok, Thailand; Montserrat; Roatan, Honduras; Ouagadougou, Upper Volta; and Mogadiscio, Somalia.

Library

The VITA Documentation Center has 25,000 documents on topics such as education and communication, health and medicine, home technologies, food, environment, business and labor, science, agriculture, housing and construction, water supply and sanitation, transportation, and energy. Information is available on microfiche and some publications are available in foreign languages including Spanish, French, Arabic, and Portuguese. The Documentation Center is for anyone's use. There is no charge except for photocopies at \$.10 a single page or \$.15 for a double-sided page. Documents may be sent to persons in developing countries free of charge. The inquiry service is available for use to anyone. For requestors in North America, Europe, and developed countries elsewhere, there is a minimum fee of \$25 in addition to the photocopying fees above. There is no charge for the service to requestors in developing countries.

Information Exchange

VITA has 250 formal exchange agreements with other organizations. Exchanges include publications, primarily in English, Spanish, and French.

Publications

VITA publishes VITA News, a quarterly newsletter in English. This periodical, illustrated with both drawings and photographs, is distributed to approximately 8,000 persons in technical fields, development organizations, businesses, and government. The subscription fee is \$15 a year. Inquiries should be sent to VITA at the mailing address above.

Research

VITA works with local institutions on long-term efforts to develop and promote needed technologies. For example, VITA and the Mexican Instituto de Investigaciones Electricas (ITE) are testing improved low-cost windmills in Cuernavaca to generate electricity or pump water, a project supported by the General Electric Company and Sperry New Holland.

VITA prepares major studies of technologies or development issues, conducts resources analysis, and assesses markets for clients in the public or private sector. For example, it has studied stove testing methods for the National Academy of Sciences (U.S.A.), charcoal production for the Caribbean Community Secretariat, commercial use of biogas for USAID/Morocco, and water pumping and commercially available biotechnologies for a French firm. Charges for services are dependent of the requirements of the research. Inquiries should be addressed to VITA at the mailing address above.

Training

VITA's Information Resources Development Training Program is designed to help participants establish documentation centers; operate specialized libraries; develop skills banks; learn computerized information systems; and disseminate materials most needed by clients. A diploma is awarded to participants. The course is held twice yearly in April and October; the training is given in one-, two-, or three-week sessions. Each week is a complete unit. French or Spanish instruction can be arranged, although some knowledge of English is desirable. Tuition is \$500 for the one-week program, \$850 for the two-week program, and \$1,000 for the three-week program. There are additional expenses for travel, document collection, and daily living expenses. Inquiries should be sent to VITA at the mailing address above.

Consulting Services

VITA responds to requests from development agencies, businesses, and other institutions by providing the names and bio-data sheets of consultants for specific assignments, matching skills with the requirements of the assignment. Most names come from VITA's staff and computerized roster of VITA volunteer experts, which is catalogued by skill and background. Consultation costs include per diem, consultant's fee (although sometimes a volunteer can be found who will provide services free of charge), round-trip air travel, local travel, as well as office support, and VITA's overhead costs. Fees for consultant name referrals are \$325 for short-term assignments (three months or less) and \$500 for long-term assignments (three months to two years). If VITA is unable to provide the names of qualified and interested consultants, the minimum search fee is \$100.

Conferences

VITA convenes expert panels to discuss and make recommendations about specific technologies or development problems. A recent panel dealt with ways that developing countries might apply modern technologies, such as computers, remote sensing equipment, advanced poultry production methods, and "high-tech" agricultural techniques. In addition, panels have discussed technology options for Egypt, Zimbabwe, and other nations.

Additional Information

VITA has published and sells nearly 100 manuals and technical bulletins on appropriate technology. Many of the publications derive from VITA's own inquiries or projects, and several were prepared under contract to other organizations. Some books have been reprinted in Spanish, French, Arabic, or Portuguese.

Organizations commission VITA to prepare directories, bibliographies, and information packages on various subjects. VITA has prepared several regional directories of groups active in different fields. In addition, VITA produces and sells slide shows on wind power, solar power, and agroforestry. For a publications list and information on slide shows, write to VITA at the mailing address above.

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See Appendix A (page 329) for names of periodicals, newsletter, and journals published by these organizations.

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- Cocommunity Quarterly Supplement (Asian and Pacific Coconut Community), 14
- Communique (Association for Voluntary Sterilization), 215
- Construction Cost Bulletin (Caribbean Industrial Research Institute), 42
- Development Communication Report (Academy for Educational Development), 207
- Development Management Report (National Association of Schools of Public Affairs and Administration), 268
- Financing Agriculture (Agricultural Financing Corporation, Ltd.), 5
- FSSP Newsletter (University of Florida), 287

Gleanings (Postharvest Institute for Perishables), 303

The Heifer Project Exchange (Heifer Project International), 251

ICA Communicae (International Center for Aquaculture), 219

ICLARM Newsletter (International Center for Living Aquatic Resources Management), 78

IFDC Report (International Fertilizer Development Center), 84

IITA Research Briefs (International Institute of Tropical Agriculture), 88

ILCA Bulletin (International Livestock Center for Africa), 94

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INCAP Forma (Nutrition Institute of Central America and Panama), 135

Information Bulletin (National Institute of Forestry Research), 117

Information Bulletin CDI-PTK (Industrial Development Center), 60

Informational Bulletin (Polytechnical University of Nicaragua), 139

INNOTECH Newsletter (SEAMEO Regional Center for Educational Innovation and Technology), 162

International Rice Research Newsletter (International Rice Research Institute), 101

IRRI Reporter (International Rice Research Institute), 101

JHPIEGO Newsletter (Johns Hopkins Program for International Education in Gynecology and Obstetrics), 255

Journal of Family Health Training (University of North Carolina at Chapel Hill, School of Medicine), 307

Journal of Rural Development (National Institute of Rural Development), 123

Journal of Science and Mathematics Education in Southeast Asia (SEAMEO Regional Center for Education in Science and Mathematics), 157

LEC Newsletter (U.S. Department of Agriculture/Colorado State University), 310

Maize Facts and Trends (International Center for the Improvement of Maize and Wheat), 75

Modern Management (Management and Productivity Development Center), 111

Mothers and Children (American Public Health Association), 213

MSU International Development Papers (Michigan State University), 266

NETWORK (Family Health International), 245

Newsletter(s) (International Center for Tropical Agriculture), 81

NIRD Newsletter (National Institute of Rural Development), 123

Pest Management News (Consortium for International Crop Protection), 232

Population and Development Review (The Population Council), 278

Population Reports (The Johns Hopkins University), 259

RED (Central American Center for the Study of Appropriate Technology), 44

REC Bulletin (Rural Electrification Corporation, Ltd.), 146

RECSAM News (SEAMEO Regional Center for Education in Science and Mathematics),
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RELC Journal (SEAMEO Regional Language Center), 170

Report of the Faculty of Ethnology (Investigation Center in Human and Social
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Small Business Entrepreneurs (University of the Philippines, Institute for
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Social Marketing UPDATE (The Futures Group), 249

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Southeast Asia Journal of Tropical Medicine and Public Health, The (SEAMEU Tropical Medicine and Public Health Project), 174

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Synthesis of the SID'EH (Haitian Center for Research in the Social Sciences),
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Technical Bulletin for the Foods and Chemistry Industry (Technical Institute of Training and Productivity), 185

Technical Bulletin of Management (Technical Institute of Training and Productivity), 185

TECHNONET Asia Newsletter and Digest (Asian Network for Industrial Technology Information and Extension), 32

Textile Industrial Technical Bulletin (Technical Institute of Training and Productivity), 185

Tissue Culture for Crops (Colorado State University), 228

TropSoils Communique (North Carolina State University), 274

Uplink (Academy for Educational Development), 204

VITA News (Volunteers in Technical Assistance, Inc.), 313

WARDA Technical Newsletter (West Africa Rice Development Association), 198

Waterlines (Intermediate Technology Development Group, Ltd.), 70

WFS Diary (International Statistical Institute), 105

Wheat Facts and Trends (International Center for the Improvement of Maize and Wheat), 75

APPENDIX B DATA BASE SERVICES

Millions of items of information are stored in central computers and are available simply and quickly "online" through a terminal and a standard telephone or a telex/cable machine, and "offline" through the mails. Organized files of information items--data bases--provide access to published literature, statistical data, and ongoing research on any subject--science and technology, social sciences, arts and the humanities, business, medicine, law, and current affairs. Information may be as recent as yesterday's newspaper and as historic as 19th century dissertations. Journals, technical reports, dissertations, patents, bibliographies, manuals, and economic forecasts are available in full text or abstract form.

The application of computer technology to data bases greatly improves access to information by decreasing the amount of time and effort required for retrieval. The searcher does not need to be an expert in a subject area to use a computerized data base effectively. It is, however, vital to be as specific as possible with a request to avoid a massive and confusing response.

Data bases differ from one another in subject, type of information, size, arrangement of the units of data, and the way in which the information is retrieved from the data base. Various data bases are made available through different vendors.

Vendor companies may be reached by a local telephone call in the United States and Canada to one of two data communications networks: Tymnet or Telenet. Telecommunications service is also available from many cities outside the United States and Canada through national telephone agencies. A list of names and addresses of representatives is available from each vendor. Arrangements must be made with them directly, and rates may vary from country to country. Vendors may also be accessed directly through the international TELEX network. Write to the vendors for information concerning online and offline services, best method of access, and costs. There are generally no initiation fees or minimum charges, but an application form must be filled out and a code word assigned to the user.

Costs vary from one vendor to another, ranging from \$16 to over \$100 per online hour, depending on which data base is used. Information runs may take only a few minutes, and the user is charged only for the exact online connect time taken. Other costs may include international communications or printout costs for offline searches. For access to a computer terminal or a Telex connection, check with local ministries, universities, and libraries.

Following are descriptions of some of the vendors and a selection of data bases representing various subject fields.

REPRESENTATIVE VENDORS AND INFORMATION SERVICES

- BRS Bibliographic Retrieval Services, Inc.
BRS provides online access to over 50 commercially available bibliographic data bases in all subject disciplines. Offline results are printed the evening of entry and mailed to the user first class the following morning. For more information, write: BRS Online Catalogue Service, BRS, Inc., 702 Corporation Park, Scotia, New York, 12302, U.S.A.
- CONTROL DATA CORPORATION DEVELOP Search Service
The DEVELOP Search Service provides access to the DEVELOP data base compiled by the Denver Research Institute for Control Data Corporation. DEVELOP is designed specifically for users in developing countries. For further information, write: DEVELOP Data Base, International Development Services, Control Data, HQ001, P.O. Box 0, Minneapolis, Minnesota, 55440, U.S.A.
- DIALOG Lockheed's DIALOG Information Retrieval Service is the largest system of its kind in the world with more than 100 data bases covering all subjects. A summary description of each data base, including subject coverage, types of documents, number of records, coverage time period, and access costs is in the DIALOG Database Catalog, which is available free. There are no minimum charges or initiation fees. For more information, write: DIALOG Information Retrieval Service, Marketing Department, 3460 Hillview Avenue, Palo Alto, California, 94304, U.S.A. Telex: 334 499 (DIALOG) or TWX: 910/339-9221.
- MEDLARS Medical Literature Analysis and Retrieval System of the U.S. National Library of Medicine. Eighteen data bases are available. For further information, write: National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland, 20209, U.S.A.
- New York Times Information Services
The New York Times Information Service has six data bases covering different areas of information included in the New York Times and 90 other newspapers and periodicals. For further information, write: New York Times Information Service, Mt. Pleasant Office Park, 1719A Route 10, Parsipanny, New Jersey, 07054, U.S.A.
- SDC System Development Corporation
Through the ORBIT Information Retrieval System, SDC makes available online reference sources in over 80 data bases covering every subject category. There is no subscription fee and no minimum use requirement. For further information, write: SDC Search Service, System Development Corporation, 2500 Colorado Avenue, Santa Monica, California, 90406, U.S.A. Telex: 65-2358 TWX: 910/343-6443
- The Directory of Online Information Resources is a guide to selected bibliographic and nonbibliographic online data bases. The Directory lists the data base name, subject content,

organization responsible for content, coverage, file size, vendors, and cost information. Single copy orders are \$18.50 and must be prepaid to CSG Press, 11301 Rockville Pike, Kensington, Maryland, 20895, U.S.A. For those who do not have access to vendors, the Capital Systems Group will perform searches and provide document delivery through their InfoQuest service. For additional information, write: InfoQuest, 11301 Rockville Pike, Kensington, Maryland, 20895, U.S.A., Attention: Virginia Van Brunt. Telex: 904059 WSH.

REPRESENTATIVE DATA BASES

o AGRICOLA--1970 to present

AGRICOLA is the centralized agricultural bibliographic data system of the U.S. National Agricultural Library (NAL). This file provides comprehensive coverage of worldwide journals and monographic literature on agriculture and related subject fields, including general agriculture and rural sociology; agricultural economics; consumer protection and human nutrition; animal science; veterinary medicine; forestry and plant-related areas; agricultural chemistry; natural resources; entomology; and agricultural engineering.

Vendors are DIALOG, SDC, and BRS.

o CAB ABSTRACTS--1972 to present

A comprehensive file of agricultural, veterinary, and applied biological information containing all records in the 26 main abstract journals published by the U.K. Commonwealth Agricultural Bureau. Over 8,500 journals in 37 languages are scanned, as well as books, reports, and other publications. In some instances less accessible literature is abstracted by scientists working in other countries. About 130,000 items are selected for publication yearly; significant papers are abstracted, while less important works are reported with bibliographic details only.

Vendors are DIALOG and SDC.

o DEVELUP--1979 to present

A file of information on alternative energy, small-farm agriculture, development technologies, small-enterprise development, urban development, community self-reliance, international development, and water and sanitation. DEVLUP contains specifications of marketed products, details of case studies and research in progress, and directory information about those able to provide assistance. Users who provide unique information for addition to the data base may receive credit against future service charges.

Vendors are Control Data Corporation and the Denver Research Institute (DRI).

o ERIC--1966 to present

ERIC is the complete data base on educational materials from the Educational Resources Information Center. It consists of two main files: Research in Education, which is concerned with identifying the most significant and timely

education research reports and projects; and Current Index to Journals in Education, an index of more than 700 publications of interest to every segment of the educational profession. Many items (aside from journal articles) can be purchased from the ERIC Document Reproduction Service in paper copy or microfiche. Prepared by the ERIC Processing and Reference Facility of the National Institute of Education.

Vendors are DIALOG, SDC, and BRS.

o MEDLINE (MEDLARS ONLINE)--1966 to present

MEDLINE is one of the major sources for biomedical literature, produced by the U.S. National Library of Medicine, corresponding to three printed indexes: Index Medicus, Index to Dental Literature, and International Nursing Index. MEDLINE covers virtually every subject in the broad field of biomedicine. It indexes articles from over 3,000 international journals published in the United States and 70 countries. Citations to chapters or articles from selected monographs are also included.

Vendors are DIALOG, BRS, and MEDLARS.

o NTIS--1970 to present (BRS and SDC); 1064 to present (DIALOG)

The NTIS database consists of a cross-disciplinary file of U.S. government-sponsored research and development, technical reports, and engineering, plus analysis prepared by Federal agencies, their contractors, or grantees. It is the means through which unclassified, publicly available, unlimited distribution reports are made available for sale from such agencies as the National Aeronautics and Space Administration, the Departments of Energy, Health and Human Services, Housing and Urban Development, Transportation, and Commerce, and some 240 other units.

The NTIS database includes materials from both hard and soft sciences, including substantial material on technological applications, business procedures, and regulatory matters. Many topics of immediate, broad interest are included, such as environmental pollution and control, energy conversion, technology transfer, behavioral/societal problems, and urban and regional planning.

Vendors are DIALOG, SDC, and BRS.

o POPLINE--1970 to present

Contains citations to journal articles, monographs, and technical reports in the field of population, including basic research in reproductive biology, applied research in contraceptive technology, family planning, and demography.

Vendor is MEDLARS.

o SCISEARCH--1974 to present

A multidisciplinary index to the literature of science and technology prepared by the Institute for Scientific Information (ISI). It covers every area of the pure and applied sciences. It contains all the records published in Science Citation Index and additional records from the Current Contents series

of publications that are not included in the printed version of SCI. SCISEARCH is distinguished by two important characteristics: (1) journals indexed are carefully selected on the basis of several criteria, including citation analysis, resulting in the inclusion of 90 percent of the world's significant scientific and technical literature; and (2) citation indexing is provided, which allows retrieval of newly published articles through the subject relationships established by an author's reference to prior articles.

Vendors are DIALOG and BRS.