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FY 79

THIRD QUARTER REVIEW

APRIL - JUNE

THE U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT  
LATIN AMERICA & THE CARIBBEAN REGIONAL NETWORK  
TECHNICAL INFORMATION FOR DEVELOPMENT  
PROJECT NO. 598-0572

MANAGED BY

THE NATIONAL TECHNICAL INFORMATION SERVICE

FOR

THE DIVISION OF EDUCATION & HUMAN RESOURCES  
OFFICE OF DEVELOPMENT RESOURCES  
BUREAU FOR LATIN AMERICA

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PART I

NARRATIVE REVIEW

PROJECT NO. 598-0572

LATIN AMERICA & THE CARIBBEAN REGIONAL NETWORK

TECHNICAL INFORMATION FOR DEVELOPMENT

## Introduction

In the third quarter of FY 1979 the International Technical Information Network developed closer ties with the cooperating agencies in Latin America and made significant progress promoting and further expanding the understanding of appropriate technology. The most noteworthy event during the quarter was the April 2-13, 1979, Eleventh Information Systems Training and Orientation Workshop (a semi-annual event). Sixteen technical information specialists from thirteen countries participated, including twelve representatives from cooperating agencies in the region: Barbados (2 participants), Costa Rica, Ecuador, Guatemala (2), Honduras, Jamaica, Panama, Peru, and Mexico (2).

The meetings were held in both Washington and Springfield. The recently completed Workbook (Attachment IV) was used for the first time and, as an instrument of introduction to network operations, proved to be quite useful. Subjects covered in the workbook included a listing of the products and services available from NTIS, instructions how to search and process documents into the NTIS bibliographic data file, instructions how to order NTIS products, and general information on marketing and promotional activities.

The workshop itself expanded upon the information in the workbook with sessions on program management, marketing principles, and basic financial accounting (including the deposit account system). It also explained how to acquire and catalog technical reports, index documents, use the NTISearch system, manually retrieve information and order information. The attendees visited numerous outside agencies including the Library of Congress, National Agriculture Library, National Library of Medicine, and the Volunteers in Technical Assistance (VITA). They also visited several organizations with technical data base systems including Smithsonian Science Information Exchange (SSIE) and Educational Resource Information Clearinghouse (ERIC).

The following are highlights of other accomplishments during the quarter:

1. Meetings with officials from the USDA, World Bank, and Delft University of Technology in The Netherlands to discuss the input of their AT work into the NTIS data base.
2. Participation in an Appropriate Technology Fair in Washington.
3. Marked increase in the distribution of the Spanish translation of AMTID.

4. Increased dissemination of AT materials to assist disadvantaged groups in Latin America.
5. Publication of a comprehensive bibliography on appropriate technology for developing countries.
6. Completion of study on "Scientific and Technical Information Needs for LDCs."
7. Renewal, extension, or replacement of cooperating agency agreements with Bolivia, Peru, Costa Rica, El Salvador, Ecuador, Mexico, and Nicaragua.
8. Participation in international meetings in Mexico and Cleveland, Ohio.
9. General management consultations in Chile, Bolivia, Peru, Ecuador, Haiti, and the Dominican Republic.
10. User education seminar in Chile.
11. Briefings of several U.S. Foreign Service and AID officers who were enroute to new assignments overseas.

These accomplishments and other program information are discussed in more detail in the following pages.

#### Appropriate Technology

- o NTIS participated in the April 27 - May 1 Appropriate Community Technology 79 Fair/Conference in Washington, DC. The NTIS display contained information on NTIS products and services as well as a terminal that was used to conduct on-line searches for interested parties.
- o P. Bundick met with Mr. Charles Beebe, Chief of Information Retrieval for the Technical Information System of the Science and Education Administration of USDA, to discuss areas of program cooperation regarding AT searches and bibliographies. USDA performs numerous searches for developing countries and is a potentially rich information resource for the network participants. Beebe also discussed the possible consignment of USDA stock to NTIS for the AID program and the input of National Agriculture Library bibliographies. Greater future cooperation is planned.

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- o P. Bundick met with Patricia Wetmore, Office of the International Cooperation and Development, USDA, to discuss the USDA's AID-funded technical inquiry service. The service offers free technical information assistance and world-wide searches for AID missions; NTIS will bring this resource to the attention of all cooperating agencies. We will hold further meetings to discuss program cooperation and the elimination of duplication.
- o P. Bundick met with George Wynne, Director of the Council for International Urban Liaison (CIUL), and Herbert Werlin, CIUL Director of Communications in charge of the Urban Edge (a World Bank-funded AT newsletter devoted to urban problems in the developing countries). They discussed the feasibility of CIUL contracting with NTIS/AID to acquire and prepare the World Bank collection of AT for input into the NTIS data base and the possibility of inserting the NTIS urban AT in the Urban Edge newsletter.
- o P. Bundick met with Rita Vander Linden of the Center for Appropriate Technology at the Delft University of Technology in The Netherlands. They discussed the NTIS/AID program, cooperation with the AT Center in its developing country support efforts, and the input of unpublished reports from the University and the AT Center into the NTIS data base. Delft will receive a special 50% discount off regular prices for NTIS AT information through Intermediar, the NTIS representative in The Netherlands.
- o P. Bundick met with the NTIS Division Chiefs to coordinate the input of 5,000 AID documents of the Regional Technical Aide Center (RTAC) series. The input will be done by contractors and serve as a pilot project to assess future input by other source clients. The RTAC series substantially increases AT information in the NTIS data file.
- o NTIS/AID and the Centro de Estudios Mesoamericano Sobre Tecnologia Apropriada (CEMAT) in Guatemala signed a consignment agreement to distribute CEMAT's publication Simposio Internacional Sobre el Terremoto de Guatemala.
- o The comprehensive AT bibliography, "Selected Appropriate Technologies for Developing Countries" (PB-294 160) was published May 31, 1979 (Attachment V). It supersedes the pilot publication of November 1978. Approximately 700 copies were distributed to development organizations, most of which are in Latin America. It is available free of charge both for AID program countries and groups working in developing countries, and for \$4 for other organizations.

- o "A Global Listing of Appropriate Technology Organizations and Sources" (PB-296 635) was input into the NTIS bibliographic data base (Attachment VI). Distribution will be made to all overseas representatives.
- o Five of the eighteen appropriate NTIS documents selected for translation into Spanish by local cooperating agencies have now been completed and input into the bibliographic data file. Letters have been sent to the various cooperating agencies encouraging them to complete the outstanding translations so they will be available to other interested individuals and agencies. Attachment III lists the status of those translations which have not previously been input into the data file or for which an accession number was unavailable.
- o One hundred and eighty one selected appropriate technology publications were acquired and input into the NTIS bibliographic data file from various sources, a 59% increase over the previous quarter. These titles will appear in future AMTID editions as well as in the updated AT Bibliography.
- o A total of 581 AT publications were requested under the AID-subsidized program during the third quarter, a tremendous increase over the 50 of the previous quarter. The Latin America and Caribbean cooperating agencies and their clients are now more aware how the program benefits disadvantaged groups within their countries. Countries taking advantage of the program include Chile, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Haiti, Panama, and Peru.
- o NTIS signed four agreements with Intermediate Technology Publications (ITP) Ltd. of London, the world's leading AT group, to disseminate selected ITP Spanish and French paper copy translations as well as microfiche copies of all English publications.

#### Cooperative Activities

- o NTIS Director Day, T. Lindemann, and other staff met with Lida Allen, Director of AID's Office of Development Information and Utilization, to discuss the U.S. hosting of a UNESCO Seminar in May 1980. The seminar will be held at the National Academy of Sciences in Washington with a theme of "The Assessment of Information Needs for Development as a Basis for Information Policy."
- o NTIS Director Day and T. Lindemann attended the U.S. Committee for UNESCO PCI meeting in Washington where Mr. Day discussed UNISIST II and Lindemann reported on ad hoc group discussions. Director Day headed the U.S. delegation to the UNISIST II meeting in Paris, May 28-June 1, 1979.

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- o V. Dowd attended a World Bank seminar on the Science and Technology Policy (STPI) Project. The Seminar reviewed the criteria, methods, accomplishments, and conclusions of a 3½ year project in 10 developing countries, a project which was funded by IDRC, Canada but carried out in its entirety by Developing Country personnel.
- o F. Post attended a preparatory meeting of the U.S.-Mexico Bilateral Commission. The conference itself was held in June. Its purpose was to promote economic and technical cooperation between the U.S. and Mexico; one important U.S. contribution was the NTIS/INFOTEC agreement.
- o F. Post attended a meeting of the Inter-Agency Task Force on Transborder Data Flows. It reviewed the present state of the draft guidelines prepared at OECD.
- o J. Hounsell briefed Jamal Zemouri, Office of Industrial Development, Morocco, and Jacob Levitsky of the World Bank, on the NTIS International Technical Information Network and gave them a tour of the Springfield facility. Mr. Levitsky was favorably impressed by the NTIS/AID program and commented that he would bring it to the attention of others in the Bank.
- o T. Lindemann attended a briefing for NTIS managers on the proposed Worldwide Information and Trade System, an automated on-line system for which funding is being sought from Congress. Mr. Vernon Stansbury of the Commerce Department's Industry and Trade Administration led the presentation.
- o T. Lindemann accompanied NTIS Director Day to a meeting at the State Department on the UNCSTD Conference. Mr. Day briefed Ludwig Rudel of the U.S. conference staff on the UNISIST II Conference in Paris.
- o V. Dowd briefed Eiti Sato, of the Instituto de Pesquisas Tecnologicas do Estado de Sao Paulo, on the NTIS-AID International Network and reached a verbal agreement for the acquisition of selected research reports from Sato's institute, the major STI user in Sao Paulo.
- o V. Dowd met with Paul Shapiro, a consultant working on a study on the transfer of technology to lesser developed countries for the Assistant Secretary of Science and Technology, U.S. Dept. of Commerce. Ms. Dowd briefed Shapiro on the NTIS/AID programs for less developed countries.

- o Dr. Victor Martinez, CENDES, visited Washington and met with T. Lindemann and F. Post to coordinate various project activities involving NTIS, AID, and the cooperating agencies. Topics discussed were: (1) development of patent training activities in the NTIS/AID program; (2) production of audio visual aids for CENDES; and (3) training for AT sub-agency personnel in Quito.
- o P. Bundick discussed NTIS information services with Mr. David Straley, AID, Costa Rica. Straley ordered several documents for his program and left with a greater understanding of the NTIS capability to meet AID's information needs in Costa Rica.
- o T. Lindemann, P. Bundick, and F. Pardo de Zela met with Ms. Laurie Adler, Denver Research Institute, to review case study and user education projects and to consider other areas of possible cooperation.
- o VITA sent several employees to tour the NTIS Springfield facility and meet with D. Shonyo, R. Garcia, and P. Bundick to discuss the NTIS-VITA initiatives in less developed countries.
- o The Semana del Sol (Sun Week) fair was held in Costa Rica June 11-17. NTIS provided information for this exhibit on solar energy.
- o F. Post and J. Hounsell, at various times during the quarter, briefed 10 foreign service commercial officers from the State Dept. They discussed the AID program with NTIS, viewed the NTIS videotape, and were informed of the NTIS activities in developed and developing countries. Each was given an information kit.

Cooperating Agencies - Seminars, Conferences, Management Consultation

- o F. Post attended a regional conference sponsored by UNESCO in Mexico City on the Transfer of Technical Information in Latin America. He delivered a paper on "On-Line Searching for Developing Countries" (Attachment VII). Four cooperating agencies were represented: INDOTEC (Dominican Republic), INFOTEC/CONACYT (Mexico), COLCIENCIAS (Colombia), and CII (Honduras).

- o F. Post participated June 28-29 in a Case Western Reserve University seminar on Information Management and Systems. The seminar was sponsored by UNESCO, OAS, and NTIS and was attended by 24 participants from 18 developing countries. Network representatives included INFOTEC/CONACYT (Mexico) and ICAITI (Guatemala).
- o F. Post participated in a user education seminar in Santiago, Chile.
- o F. Post held consultations with local AT authorities in Santiago, Chile on the development of an appropriate technology program and with INTEC/CORFO on the development of a regional computer access network (for the time being it was determined that such a network is not feasible); a year-end evaluation of DGNT and agreement renegotiation was completed in La Paz, Bolivia; a field visit and review of the appropriate technology program was made in Lima, Peru; and a visit was made to the appropriate technology sub-agency in Quito, Ecuador.
- o Potential cooperating agencies in Port-au-Prince, Haiti, were interviewed by J. Hounsell. A decision on which agency to use is pending further action by AID/Haiti. Hounsell later went to Santo Domingo, Dominican Republic to discuss the AMTID guest editor program.

#### Cooperating Agency Agreements

- o Renewal of cooperating agency agreements were completed with both the Direccion General de Normas y Tecnologia (DGNT) in Bolivia and Novoa Ingenieros Consultores (NIC) in Peru. The agreements were extended through April 30, 1981.
- o The Instituto Tecnologico de Costa Rica (ICTR), the former AT sub-agency, has replaced CONICIT as the cooperating agency. The agreement is valid through February 1981.
- o Cooperating agency agreements were extended with the Centro Nacional de Productividad (CENAP) of El Salvador, the Centro Nicaraguense de Informacion Tecnologica (CENIT) of Nicaragua, and the Centro de Desarrollo Industrial del Ecuador (CENDES) of Ecuador.

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### Cooperating Agency Communication

- o Three issues of the network bulletin, ACCESS, were distributed to cooperating agencies, AID missions, and other network participants (see Attachment VIII for copies). The April issue featured Ambassador John McDonald's comments on Technical Cooperation Among Developing Countries, the May issue the Contadora Regional Conference and data base discussions in Peru, and the June issue the Appropriate Technology Fair in Washington, DC.

### Training and Consultation

- o The major activity in this field was the Eleventh Information Systems Workshop, April 2-13, 1979.
- o Invitations for the September 10-21, 1979, workshop have been sent to 21 countries. Representatives from Barbados, Colombia, Costa Rica, Ecuador, Honduras, and Panama have already accepted the invitations.
- o T. Lindemann attended a two-day American Management Association seminar in N.Y. on "Marketing Through Overseas Agents and Distributors."
- o F. Post conducted a user education seminar in Santiago, Chile before 135 participants.
- o F. Post provided training for staff of the Documentation Center at the Escuela Politecnica in Quito, Ecuador, on how to participate in the international network and, in general, work with the NTIS/AID program.

### Application of Modern Technology to International Development (AMTID)

- o AMTID, the NTIS newsletter that announces new technical reports on appropriate technology of particular interest to developing countries, is the project's most effective tool for announcing available AT material to NTIS cooperating agencies. It describes publications that may be obtained through NTIS and other AT organizations such as VITA and ATI. When appropriate, it refers readers to private sources of material. The Latin American cooperating agencies estimate that AMTID generates more than 90% of the demand for NTIS appropriate technology materials.
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The AMTID mailing list continues to grow, particularly in Latin America where the distribution of the Spanish language version increased by over 3,000 copies and more than 43% over the previous quarter. An estimated five individuals in Latin America see each AMTID issue. NTIS distributed the second French language AMTID edition, primarily to Haiti and East Africa.

Overall AMTID distribution at the end of the quarter, including mailed copies and other distribution, is as follows:

|         | <u>Mailed</u> | <u>Handouts, Exhibits,<br/>Special Requests</u> |
|---------|---------------|---|
| English | 7,708         | Approximately 3,300                             |
| Spanish | 9,989         | Approximately 2,000                             |
| French  | 1,838         | Approximately 500                               |

The following issues of AMTID in English were distributed during the quarter:

- Issue 79-2, a general issue featuring best selling reports
- Issue 79-3, highlighting computers and information
- Issue 79-4, highlighting urban technology
- Issue 79-5, highlighting pollution control

The NTIS cooperating agency in Mexico, INFOTEC/CONACYT, translates AMTID into Spanish, prepares final art, and prints and distributes it. The edition is distributed approximately 6-8 weeks after the mailing of the English version. The French versions are translated in Washington and chosen from specific back issues which are believed to be of particular interest to the distribution area.

Four AMTID editions highlighting respectively health care, manuals and handbooks, fertilizers, and best selling reports were distributed in Spanish during the third quarter. The French edition featured water resources development. (See Attachment VIII for copies of the report.)

### Case Studies

The work on the case studies continued. F. Pardo de Zela visited several Asian countries to evaluate the effective use of U.S. technical information by foreign nationals. He also made extensive preparations for a trip to South America in the fourth quarter since personal contact with cooperating agency representatives abroad is the proven best way to develop case studies. Information

was obtained which will assist this office to complete the pending El Salvador, Ecuador, and Colombia studies.

The Case Studies Handbook is in progress. It will be disseminated during the fourth quarter.

### Program Planning and Evaluation

The study, "Scientific and Technical Information Needs for LDCs," performed on contract by the International Science and Technology Institute (ISTI) was completed in the third quarter. It was designed to provide network participants both a better understanding of their constituencies and a basis for their program planning and evaluation. ISTI divided the study into five sections:

1. A bibliography of studies on technical information linkages between LDCs and the U.S.
2. An outline of LDC perceptions of U.S. technical information and its role in technical assistance efforts.
3. A review of NTIS activities in making technical information available.
4. A basic policy outline listing the U.S. options at the United Nations Conference on Science and Technology for Development (UNCSTD) in the field of technical information.
5. A review of the NTIS Developing Countries Program.

ISTI is generally satisfied with the NTIS/AID program. It recommended its expansion so it would cover more countries and provide more extensive services to those with which NTIS already has a cooperating agency agreement.

The report consistently points out the general worldwide disorder in appropriate technology programs in LDCs. Few countries, or individuals within them, have a good idea what is needed and organizations from developed countries often work at cross-purposes or are not aware what other organizations are doing. The authors attribute this problem in part to the sheer number of the international and private organization that work in the AT field. This part of the study is pertinent to NTIS in only a general way as much of the suggested problems are beyond NTIS responsibilities and financial means.

Attachment I to this report includes a summary of the study, comments about its strengths and weaknesses and a copy of the study itself.

Project Management

NTIS staff and contract personnel working on the project full or part-time were:

Terrance Lindemann, Foreign Affairs Administrator  
Frank Post, Foreign Affairs Officer, Latin America and  
Caribbean  
Vietta Dowd, Information Systems Specialist  
Rita Cunningham, Administrative Assistant  
Paul Bundick, Appropriate Technology Specialist  
John Hounsell, AMTID Editor  
Francisco Pardo de Zela, Case Studies Specialist  
Marion Janniche, Administrative Assistant  
Nancy Dolphin, Secretary  
Richard Garcia, Student Assistant

Also assisting on the project operations were Mrs. Pauline Gilmer, Customer Inquiry; and Mrs. Mildred Johnson, Order Processing.

PART II

COOPERATING AGENCY REPORTS

PROJECT NO. 598-0572  
LATIN AMERICA & THE CARIBBEAN REGIONAL NETWORK  
TECHNICAL INFORMATION FOR DEVELOPMENT

## INTRODUCTION

The following section describes USAID activities and related project developments in each of the participating countries.

Twelve of the NTIS/AID agents from the Latin America and the Caribbean cooperating agencies attended the April 1979 NTIS Information Systems Workshop and the NTIS staff visited seven of the cooperating agencies during the quarter to consult on general management matters and expand their activities in the AT area. A significant development during the quarter was the increase in the demand for appropriate technology publications under the AID subsidized program to benefit disadvantaged groups. NTIS anticipates a further increase in AT distribution as the agencies and individuals become more aware of the program.

A general overview of the project activities by sub-region follows:

### Mexico and Central America

The cooperating agency in Mexico continues to translate and distribute the Spanish version of the AMTID and has provided a number of support activities, such as document translations. It also hosted a UNESCO conference in Mexico City during the third quarter.

Most of the Central American cooperating agencies place a high priority on appropriate technology and have ordered a number of related documents from NTIS, most under the above mentioned program.

The agency in Costa Rica has been the most active, hosting a "Semana del Sol" conference and explaining the AT program to numerous groups.

### The Caribbean

The majority of the agency agreements in this region have only recently been signed and the agencies are still developing their programs. Activity has increased as the agents gain an understanding of AID objectives and how the program benefits their country. CDB in Barbados is one of the most active agencies and has invited NTIS and AID to present a program at a conference it will host for its affiliates during the fourth quarter.

### Andean Sub-regional, Brazil

The amount of publications sent to the various countries in this region continues to ebb and flow depending upon the programs that the various agencies are sponsoring. There was a marked increase in shipments to Brazil and to lesser extent, Colombia. The promise of a brighter future in Bolivia appears to have been fulfilled as the new agency director takes control. Chile continues to have a strong program and Paraguay is starting program activity following its recent cooperating agency agreement with NTIS. The new sub-agency specializing in AT work in Quito, Ecuador is beginning activity, and Venezuela has had a revival of interest in project participation.

BARBADOS

Cooperating Agency

Caribbean Development Bank (CDB)  
Technology Information Unit  
Project Design and Analysis Division  
P.O. Box 408  
Wildey, St. Michael  
Barbados, W.I.

Deputy Director: Bernard Gouveia  
TIU Chief: Jerome O.R. Singh  
Librarian: Nancy St. John  
Documentalist: Adelle Blackman

USAID Mission Liaison: Steve Ryner, Capital Development Officer

ACTIVITY

The initial CDB/NTIS relationship has proven very strong since CDB officially joined the International Technical Information Network in January 1979. CDB actively disseminated information about NTIS and its AT publications to its affiliates throughout the Caribbean and sent two of its employees, Adelle Blackman and Jerome Singh, to the April NTIS Information Systems Workshop. Nineteen AT publications were sent to various AT organizations under the AID subsidized program.

CDB has agreed to sponsor a September 24-26 regional meeting for the technical information personnel from its affiliates in Antigua, Belize, Dominica, Grenada, Montserrat, St. Kitts-Nevis, St. Lucia, St. Vincent, British Virgin Islands, Cayman Island, and the Traks and Caicos Islands, Bahamas, Barbados, Trinidad-Tobago, and Guyana. The Developing Country Office of NTIS has been allotted two of those days to introduce NTIS and to discuss CDB's participation in the AID/NTIS network. V. Dowd will travel to Barbados early in the fourth quarter to make preliminary meeting arrangements; T. Lindemann, F. Post, and D. Tenney will attend the meeting.

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BOLIVIA

Cooperating Agency

Direccion General de Normas y Tecnologia (DGNT)  
Casilla 4430  
La Paz

Director: Dr. Gregorio Bernal  
Chief, AID/NTIS Project: Carlos Garvizu

USAID Mission Liaison: Howard Handler, Program Officer

ACTIVITY

Dr. Bernal, since his appointment as director, has taken numerous steps to reorganize and strengthen DGNT. F. Post traveled to La Paz during the quarter to make a year-end program evaluation and to renegotiate the cooperating agency agreement which is now effective through April 30, 1980. He also visited the USICA office and received encouragement for the NTIS program in Bolivia.

Mr. Post will return in the fourth quarter to present a user education seminar that will be sponsored by DGNT and SYFNID of the Ministry of Planning and to review the progress of the funded translations of several NTIS publications.

BRAZIL

Cooperating Agency

BARROSLEARN, Producoes Didaticas  
Rua 74 de Maio, 62- Andar 5<sup>o</sup>  
01041 Sao Paulo

Technical Information Network Project Officer: Jose Vencovsky  
Adelaide Paes de Barros

USAID Mission Liaison: David Campbell

ACTIVITY

Brazil graduated from the AID pilot program but continues to participate on a regional basis. The Developing Country Staff has maintained close contact with BARROSLEARN and responsibility for the Brazilian representation was recently transferred to that group.

V. Dowd met with Eiti Sato from the Instituto de Pesquisas Technologicas do Estado de Sao Paulo the leading research organization of Brazil, to discuss NTIS products and services. An agreement was reached for the acquisition by NTIS of selected reports of the research institute.

F. Post will travel to Sao Paulo during the fourth quarter to meet with BARROSLEARN.

CHILE

Cooperating Agency

Instituto de Investigaciones Tecnologicas (INTEC/CORFO)  
Casilla 667  
Avenida Santa Maria 06500  
Lo Curro, Santiago

Program Officer: Guillermo Quiroz  
Chief, Technical Information Network Project: Margarita Barraza

USAID Mission Liaison: Aulf Nataniels

ACTIVITY

INTEC is one of the leading offices in the USAID worldwide network and relations between this office and INTEC continue to be good despite the present coolness in the government-to-government contacts. The agency is quite interested in supporting the AT program and recently signed an agreement with CORFO to begin a new AT program in Chile. It also requested 23 AT documents from NTIS in the third quarter.

F. Post visited the Center during the quarter to conduct an user education seminar (at which the attendance, 135 people, was even larger than INTEC anticipated), develop an appropriate technology program and discuss the development of a regional computer access program. It was determined that, at least for the immediate future, such a computer program is not feasible because of the cost of the usage of the computer facilities.

COLOMBIA

Cooperating Agency

Fondo Colombiano de Investigaciones  
Cientificas (COLCIENCIAS)  
Transversal 9, No. 133-28  
Apartado Aereo 051 580 - 29828  
Bogota, D.E.

Director: German Escorcía  
Chief, NTIS/AID Project: Isabel Forero de Moreno

ACTIVITY

COLCIENCIAS has demonstrated its continued interest in expanding its AT background, ordering publications for disadvantaged groups under the AID subsidized program. Lic. Esther Restrepo V. of COLCIENCIAS attended the Mexico City U.N. Conference on Transfer of Technology Information in Latin America.

Isabel Moreno will attend the September NTIS Information Systems Workshop and F. Post will make a short visit to Colombia during the fourth quarter.

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COSTA RICA

Cooperating Agency

Instituto Tecnológico de Costa Rica (ITCR)  
Centro de Información Tecnológico  
Apartado 159  
Cartago

Chief, AID/NTIS Project: Ing. Gerardo Mirabelli

USAID Mission Liaison: Ing. Heriberto Rodriguez  
David Straley

ACTIVITY

ITCR has been extremely active in the past quarter since becoming the sole NTIS representative in Costa Rica. A Cooperating Agency agreement, effective to February 1981, was signed during the third quarter. ITCR sent Jesus Torres Redondo to attend the April NTIS Information Systems Workshop and will send Gerardo Mirabelli to the September session.

ITCR conducted a "Semana del Sol" exhibit on the campus of the Costa Rican Institute of Technology in Cartago, Costa Rica. NTIS supplied information for this exhibit on the practical application of solar energy in Costa Rica.

David Straley, the AID representative in Costa Rica, was briefed on NTIS AT objectives and expressed a better understanding how AID could assist the AID program in Costa Rica. He ordered several documents for his own program, while 124 other AT publications were disseminated to Costa Rica under the AID subsidized program to benefit disadvantaged groups.

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DOMINICAN REPUBLIC

Cooperating Agency

Instituto Dominicano de Tecnologia  
Industrial (INDOTEC)  
Ave. Nunez de Caceres  
Esquina Jose Amado Soler  
Apartado 329-2  
Santo Domingo

Chief, AID/NTIS Project: Enrique Leyba, Sub-director  
Information Officer: Jeanne Bogaert de Perez

USAID Mission Liaison: John Clary, Program Officer

ACTIVITY

INDOTEC continued to expand its active program, meeting with a number of local industries and businesses to explain how their services as well as the NTIS information would aid local industry. Enrique Leyba of INDOTEC attended the Mexico City U.N. Conference on Transfer of Technology Information in Latin America.

J. Hounsell visited Santo Domingo during the quarter to brief the agency on AMTID and ACCESS operations and to explain details on the NTIS/AID AT program. F. Post will travel to Santo Domingo in the fourth quarter to determine the feasibility of holding the third annual Regional Directors Conference in that city.

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ECUADOR

Cooperating Agency

Centro de Desarrollo Industrial de  
Ecuador (CENDES)  
Garcia Aviles 217 y 9 de Octubre  
Apartado 5833  
Guayaquil

Director: Dr. Victor Martinez  
AID/NTIS Project Officer: Jorge Medina

AT Sub-Agency

Escuela Politecnica Nacional (EP)  
Instituto de Investigaciones  
Tecnologicas  
Apartado 2759  
Quito

Director: Ing. Jaime Velasquez  
Head of EP Document Center: Ing. Elman Lopez

USAID Mission Liaison: James Sconce

ACTIVITY

Dr. Martinez of CENDES visited Washington to review several project activities with NTIS, AID, and the OAS. The topics discussed were: 1) development of patent training activities in the NTIS program; 2) production of audiovisual aids for CENDES; and, 3) training for the AT sub-agency personnel in Quito.

The cooperating Agency agreement with CENDES was extended. Meanwhile, CENDES and EP agreed to implement their agreement through a memo of understanding between the two agencies. Jorge Medina from CENDES attended the April NTIS Information Systems Workshop and Angela Suarez, also from CENDES, will attend the September workshop.

F. Post traveled to Quito to visit the appropriate technology sub-agency and will travel there again during the fourth quarter to train employees of EP. 96 publications were ordered through the AID subsidized program to benefit disadvantaged groups.

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EL SALVADOR

Cooperating Agency

Centro Nacional de Productividad (CENAP)  
Servicio de Informacion y Transferencia de Tecnologia  
Avenida Espana 732  
San Salvador

Director: Ing. Roberto Solorzano  
Chief, AID/NTIS Project: Gustavo Valle

USAID Mission Liaison: Jesse Snyder

ACTIVITY

Relations between CENAP and NTIS have improved during the third quarter. Ing. Solorzano was appointed the new director of CENAP and the Cooperating Agency Agreement has been extended. There has been an increased dissemination of AT publications--34 AT publications were ordered through the AID subsidized program to benefit disadvantaged groups.

GUATEMALA

Cooperating Agencies

Instituto Tecnico de Capacitacion  
(INTECAP)  
Apartado Postal 2568  
Guatemala City

Director: Mario Leal P.  
Chief, AID/NTIS Project: Sra. Clara Estella Vasquez de Contreras

Instituto Centroamericana de  
Investigacion y Tecnologia  
Industrial (ICAITI)  
Documentacion y Informacion Dept.  
Apartado Postal 1552  
Guatemala City

Director: Sra. Rocio Marban

USAID Mission Liaison: Dan Master, Loan Officer  
Tom Stukel, Program Officer

ACTIVITY

NTIS has cooperative agreements with bothe INTECAP and ICAITI. Both agencies sent representatives to the April NTIS Information Systems Workshop (Francisco Ralon Afre of INTECAP and Ernesto Rossbach of ICAITI). Mr. Rossbach also attended a seminar on information management and information systems at the Case Western Reserve University.

The Centro de Estudios Mesoamericanos Sobre Tecnologia Apropiada (CEMAT) signed an agreement to input its publication, Simposio Internacional Sobre el Terremoto de Guatemala, into the NTIS system.

102 AT publications were ordered by various AT organizations in Guatemala through the AID subsidized program to benefit disadvantaged groups.

GUYANA

No cooperating agency

No AID representative

ACTIVITY

F. Post met with Yvonne V. Stephenson of the University of Guyana Library at a UN seminar in Mexico City on the Transfer of Technical Information in Latin America. They agreed it would be best that Guyana, for the time being, forego signing a separate agreement with the NTIS program. It will instead operate through the Caribbean Development Bank in Barbados.

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HAITI

No cooperating agency

USAID Mission Liaison: Tibor Nagy, Chief Engineer

ACTIVITY

J. Hounsell met with several officials of the Government office, Bureau National de Technologie (BNT), of the Ministries d'Etat du Plan in Port au Prince, to review NTIS/AID operation and consider their participation in the network.

The Institut de Technologie et d' Animation (ITECA) also expressed its interest in entering into an agency agreement with NTIS. F. Post will travel to Haiti during the fourth quarter to meet with the interested agencies.

Four AT publications were requested through the AID subsidized program to benefit disadvantaged groups despite the lack of a cooperating agency in Haiti to disseminate information on the NTIS/AID program.

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HONDURAS

Cooperating Agency

Universidad Nacional Autonoma de Honduras  
Centro de Informacion Industrial (CII)  
Tegucigalpa

Director: Ing. Hernan Arguello  
Chief, AID/NTIS Project: Patricia Duron

USAID Mission Liaison: John L. Lovass, Program Officer

ACTIVITY

CII continues to demonstrate interest in increasing its understanding of both the NTIS operations and the applicability of AT publications and studies to Honduras. It sent Patricia Elizabeth Duran to attend the April NTIS Information Systems Workshop and it will send Thomas Olson to the September session. CII also sent Edgar Gorita to the Mexico City UN Conference on Transfer of Technology Information in Latin America.

JAMAICA

Cooperating Agency

Scientific Research Council (SRC)  
P.O. Box 350  
Kingston 6  
Jamaica, W.I.

Technical Information Officer: Mrs. Ouida Mae Lewis

USAID Mission Liaison: Mr. Jerome Hulehan

ACTIVITY

The SRC joined the Network in the first quarter of FY 79 and its activity had been low key. However, Ouida Mae Lewis attended the April NTIS Information Systems Workshop and V. Dowd will visit Kingston in the fourth quarter to give an user education seminar. We anticipate an expansion in activities as SRC and the local businesses and industries become more familiar with the NTIS/AID program.

MEXICO

Cooperating Agency

INFOTEC/CONACYT  
Apartado 19-194  
Mexico 19, D.F.

Director: Jose Quevedo P.  
Chief Technical Information Network Project: Ing. Jorge Cepeda  
AMTID Editor: Carlos Izaguirre

BACKGROUND

INFOTEC does not receive an AID subsidy, but has collaborated well with the International Technical Information Network. INFOTEC translates AMTID into Spanish and distributes it to Latin American cooperating agencies.

ACTIVITY

Paula Rucinski-Cartas and Javier Salas of INFOTEC both attended the April NTIS Information Systems Workshop.

Jorge Cepeda attended the preparatory meetings in Washington of the U.S.-Mexico Bi-lateral Commission. The cooperating agency agreement, originally signed as a result of the first U.S.-Mexico Bi-lateral Commission meeting, was extended during the quarter.

INFOTEC/CONACYT hosted a regional UN conference in Mexico on the Transfer of Technology Information in Latin America.

NICARAGUA

Cooperating Agency

Centro Nicaraguense de Informacion Tecnologica (CENIT)  
Banco Central de Nicaragua  
Apartado 2252, Banco Central  
Managua

Director: Francisco Vega Jackson  
Industrial Analyst: Dora Elena Gonzalez

ACTIVITY

The Cooperating Agency agreement was extended but because of civil disorders in Nicaragua, little was accomplished during the quarter. Activity is expected to remain dormant until the government completes its reorganization.

PANAMA

Cooperating Agency

Centro para el Desarrollo de la  
Capacidad Nacional en la  
Investigacion (CEDECANI)  
Estafeta Universitaria  
Universidad de Panama  
Panama City

Director: Resigned  
Chief, AID/NTIS Project: Mrs. Nitzia Barrantes

USAID Mission Liaison: Don Inos, Education Officer

ACTIVITY

The University of Panama, Ministry of Education, and USAID are considering new directions for the organization. NTIS has had several meetings and considerable correspondence with Samuel Bern of Grupo Tecnologia Apropida (GTA) and Glenda Bern of that organization attended the April NTIS Information Systems Workshop.

53 AT publications were ordered through the AID subsidized program to benefit disadvantaged groups.

PARAGUAY

Cooperating Agency

Instituto Nacional de Tecnologia  
y Normalizacion (INTN)  
Avenida General Artigas y General Roa  
Casilla de Correo 967  
Asuncion

Director: Dr. Jose Martino

USAID Mission Liaison: Dallas Dale Fowler

ACTIVITY

A cooperating agency agreement was signed with INTN during the quarter and funding arranged through OAS. F. Post will visit Asuncion in the fourth quarter to train the staff.

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PERU

Cooperating Agency

Novoa Ingenieros Consultores, S.A. (NIC)  
Los Colibries 104  
Lima 27

Director: Alfredo Novoa Pena  
Chief, AID/NTIS Project: Douglas Chiriboga

USAID Mission Liaison: Ing."Eddie" Alarcon, Program Officer

ACTIVITY

The cooperating agency agreement has been renewed through April 30, 1980, and NIC has an effective program to promote NTIS/AID activities. A slowdown in sales reflects the severe disruption in the local economy.

Marco Fernandez Bacc of NIC attended the April NTIS Information Systems Workshop. The May issue of ACCESS headlined the discussions which Mr. Novoa had with NTIS Director Melvin S. Day.

F. Post traveled to Lima to meet with the cooperating agency and to review the appropriate technology program that is under discussion with several local companies, including ITINTEC, which may sign a sub-agency agreement. He will visit NIC again in the fourth quarter to review the progress of several NTIS funded translations presently pending at NIC, meet with individuals interested in AT information, and hold an user education seminar if NIC's new facilities are completed before his visit.

116 AT publications were sent during the third quarter to various AT organizations in Peru under the AID subsidized program.

VENEZUELA

Cooperating Agency

Red de Informacion en Ingenieria,  
Arquitectura y Afines (REDINARA)  
Apartado de Correos 2006  
Caracas

Director: Anibal Gomez  
New York Office Director: Carlos Starke  
Chief, Technical Information Network Project: Francisco Rizo

ACTIVITY

The recently appointed coordinator for the NTIS program, Francisco Rizo, will attend the Spetember NTIS Information Systems Workshop, demonstrating REDINARA's continued interest in expanding its relationship with NTIS. F. Post will travel to Caracas in the fourth quarter to consult with other local officials.

PART III

ATTACHMENTS

PROJECT NO. 598-0572  
LATIN AMERICA & THE CARIBBEAN  
REGIONAL NETWORK  
TECHNICAL INFORMATION FOR DEVELOPMENT

## CONTENTS

- I. Comments on the International Science and Technology, Inc. study entitled "Scientific and Technical Information Needs for LDCs."
- II. Demand Statistics
- III. Translations Commissioned
- IV. "A Workbook for Use in the NTIS International Technical Information Network"
- V. "Selected Appropriate Technologies for Developing Countries" PB 294 160
- VI. "Global Listing of Appropriate Technology Organizations and Sources" PB 296 635
- VII. "On-line Searching for Developing Countries," a paper presented at the UNESCO Conference in Mexico City on the Transfer of Technical Information in Latin America.
- VIII. ""Application of Modern Technology to International Development" (ANTID)  
Nine editions as follows:  
English: NTIS-PR-529; NTIS-PR-518; NTIS-PR-504; NTIS-PR-499  
Spanish: NTIS-PR-499; NTIS-PR-498; NTIS-PR-481; NTIS-PR-480  
French: NTIS-PR-479
- IX. ACCESS Issues: April, May, June

COMMENTS ON THE  
INTERNATIONAL SCIENCE AND  
TECHNOLOGY INSTITUTE, INC. STUDY ON  
THE SCIENTIFIC AND TECHNICAL  
INFORMATION NEEDS FOR LDCS  
(Study Attached)

As mentioned in the program planning and evaluation section of this report, ISTI divided the study into five separate tasks. The first task for ISTI was to prepare a bibliography of studies on technical information linkage between LDCs and the U.S. The authors listed the organizations cooperating in international organizations. They also listed numerous international information programs and projects, along with the sponsoring organizations, and a selected bibliography for NTIS of publications in the Science and Technology (STI) field.

The second task was to cover the perceptions of the needs of the LDCs for STI. The major LDC views that the authors identify are:

Summary of Perceptions

- Developed countries are not interested in establishment of regional focal points for STI.
- Little attention, by the developed countries, is given to the need to provide training for STI professionals.
- The developed countries do not want to establish an international STI system which would allow access to technical information by LDCs.
- Technical information related to business and trade growth is not readily available.
- The most appropriate analyzed information is not available through a direct and easy-to-use delivery system.

Summary of Expectations

- More assistance to develop national STI systems.
- Greater access to information technology and training to use this technology.
- Increased opportunities for person-to-person exchanges in science and technology.
- Assistance in providing information on the availability of U.S. data systems.

- Easier access to information about emerging business and trade opportunities.

With regard to these and other observations, the following comments elaborate the ISTI findings in the context of the NTIS program.

The most clearly evidenced conclusion of the report is that there is a lack of coordination in the STI field. This is true at all levels; within the LDCs themselves, at the international level, and most importantly within the U.S. The study notes, "the United States Government does not have a unified, comprehensive STI program for developing countries." (pg. V-6) Given the skeptical perceptions of LDCs in regard to U.S. efforts to disseminate STI, this shortcoming in U.S. policy works to undermine those efforts which do reflect positive U.S. initiatives. In this context, the following ISTI observation is noteworthy:

LDCs perceive that "uncertain commitment of resources for these (international information) systems makes for uncertainty in further development." This is viewed as possibly significantly impeding the LDC's access to information of practical nature which could be of immediate utility to them (particularly in relation to AGRIS and NTIS)." (pg. II-3)

NTIS experience is that it takes time to develop the cooperating agency relationship and to implement an effective program in each country. The NTIS commitment to that cooperating agency is an important aspect in establishing such a program. Thus, a long-term policy for the dissemination of STI to developing countries, one which specifies as clearly as possible the U.S. commitment, is needed.

A second area of concern revealed in this study is the lack of STI market research and market development activities in LDCs. ISTI observes: "LDCs underutilize STI systems and resources where they exist and the habit of using STI system requires development." (pg. II-6) It stated that some of the reasons for the underdeveloped state of STI utilization are:

- low skills and knowledge of users in utilizing information itself;
- the lack of relevant academic programs;

- sporadic efforts in user education;
- the absence of studies of user information needs;
- a low degree of recognition of the need for promotion and marketing of STI products and services;
- the lack of promotion and marketing efforts, techniques, and methods; absence of market research;
- the lack of connection being made between the marketing and promotion efforts and the recognition of the value of STI in development in general; and,
- inadequate attention paid in the U.S. and other developed countries to development marketing efforts and market research of specific use for STI in LDCs.

The NTIS program clearly makes a major contribution in the area of STI marketing. (And marketing should be viewed in terms of its modern definition, i.e., the identification of user needs and the development of a program--which included user education and effective distribution--to satisfy these needs.) This is brought out in the third section which reviews the NTIS Developing Countries Program of assisting in the transfer of appropriate technology.

Concerning the issue of the STI market in LDCs, it ought to be pointed out that many of the perceptions identified by ISTI reflect an excessive emphasis on supply (i.e., the availability of STI) and insufficient concern with demand. This is reflected for example, in the desire for information "packaged" to meet LDC needs. It might be suggested, however, that the resources invested in classifying, screening, and packaging information to suit low user skills might be better invested in developing users' abilities in accessing and applying STI. It might further be suggested that more attention be paid to user needs and user education, as information is more easily accessed where a problem is well defined.

A third major theme of the ISTI study related to barriers to information flows. Barriers such as cost, language, currency restrictions, copyrights, and inadequate reproduction, postal and telecommunications systems certainly impede the international flow in information, but the question confronting U.S. policy and NTIS is to what extent can or should these barriers be reduced.

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Clearly USAID's two programs work to reduce barriers to the flow of STI. There are, however, two areas where issues remain unresolved i.e., cost and copyrights.

As a cost recovery system, NTIS has maintained that users should pay the cost of providing its service.

Recognizing the economic status of LDCs, NTIS through the Developing Country Program, provides a subsidy to encourage greater use of STI in LDCs. Yet, even with this subsidy, the cost of information to the LDC user is equal to the U.S.A. price. A special appropriate technology subsidy, which pays the complete cost, is available in Latin America and the Caribbean to approved requestors who are working in programs which directly assist the poor. Thus, most LDC users pay the full USA price or nothing for NTIS information products and services.

One specific recommendation of the ISTI study is that the prices of NTIS products and services should be further subsidized. (pg. V-6) This recommendation ought to be considered, especially for the poorest LDCs (the so-called "Fourth World"). Considering the small demand for NTIS-supplied information in these countries, such a subsidy would involve a very small cost.

There are two real issues concerning copyrights. The first deals with the general question of proprietary information and the second with NTIS. With respect to the former issue, it is charged that copyrights restrict the free flow of information to LDCs. This issue, in fact, encompasses the whole question of proprietary and experiential knowledge. It is clearly beyond the ability of the U.S. Government to make privately-held information available, whether protected by copyright or patent, or kept as a trade secret. U.S. policy to provide free access to STI is thus subject to private property constraints. U.S. policy on STI therefore must recognize that that information considered most in demand, i.e., industrial and commercial information--is least accessible to LDCs (i.e., through public channels). This fact should be explicitly stated. LDCs should not be granted the illusion of free access to information on currently competitive technology.

To accept the above fact is not to deny the value of otherwise publically available information. As the clearinghouse for Federally funded US R&D, NTIS does provide access to much valuable information especially in such public sector applications as energy, environmental control, health, etc.

NTIS' greatest contribution is its dissemination of information which might otherwise remain inaccessible. In some cases this information might find application in unanticipated areas and the hope of developing countries should be to find alternative technological approaches to their problems (e.g., in recycling waste, exploiting previously unknown uses of tropical plants, etc.) Herein lies the major contribution of NTIS. NTIS generally avoids the distribution of copyrighted materials with wide appeal, except where such arrangements are mutually beneficial to the author and NTIS' constituencies. At the same time, as suggested by ISTI, NTIS should expand its sources of information "particularly information from developing countries and about appropriate technology." (pg. V-6)

A fourth issue addressed in the ISTI study is the role of NTIS in disseminating appropriate technology information. In this area, the study fails to make any useful recommendations. Where suggestions are valid, e.g. "It is necessary for NTIS to establish the DC and AT programs a separate organizational component which is not bound by the cost covering provision that is normal NTIS operating procedure." (pg. III-12) they are already being implemented; where they are novel e.g., "studies of the societal transformations in social organization, culture... (etc.) must be given equal weight in the AT data base," (pg. III-15) or "to bio-regionalize its data base..." (pg. III-16)--they are close to impossible to effect.

In the fourth section, ISTI reviews the rational policy options at UNCTAD in the field of STI, identifying four major issues; training, linking mechanisms, educational technology, and research. General directions for U.S. policy are suggested but they are not related to NTIS.

ISTI identifies a general scheme of a US scientific and technical information for LDCs which includes NTIS as an information source. The conclusion lacks imagination--for example, in suggesting that U.S. policy will be better implemented by creating a U.S. STI Center for LDCs--but the general thrust is positive.

The final section of the report reviews the NTIS Developing Country Program. ISTI concludes that NTIS provides a worthwhile service to the developing countries even though it can only provide a partial solution to STI problems in LDCs. It stated that further NTIS/AID initiatives deserve specific consideration, all of which would lead to the recommended

expansion of the NTIS Developing Countries Program's current activities. They are:

1. increase the number of cooperating agreements with developing countries and expand promotion of NTIS products and services in the LDCs;
2. expand the NTIS training program for both technical information extension agents employed by NTIS and potential users of NTIS information in LDCs;
3. increase the number of data banks and other information available through NTIS;
4. provide technical and financial assistance to assist the development of STI infrastructure in LDCs;
5. develop and staff an "information analysis" capability in NTIS;
6. subsidize lower prices; and,
7. establish special communication links with other U.S. Government agencies involved in STI transfer.

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## INTRODUCTION

A total value of \$42,369.09 in NTIS publications and subscriptions was requested by 23 Latin American and Caribbean countries during the third quarter. The number of countries requesting information during the third quarter represented an increase of two over the previous quarter. Eighteen of the countries are participants in the network, one is considering such a step in the fourth quarter (Haiti), two have AID missions but are not members of the network (Guyana and Trinidad/Tobago) and two are excluded from the network (Argentina and Uruguay).

Of the network participants, Brazil (where demand increased by 32%) and Mexico continue to be by far the major users of NTIS publications.

Other countries with a large demand include Venezuela, Chile, Peru (a 96% increase), Colombia, Costa Rica (a 243% increase in sales which may reflect demand originated by the local cooperating agency when it hosted the Semana del Sol seminar) and Guatemala (a 142% rise).

Noticeable increases in demand also occurred from the Dominican Republic (up 500%), corresponding with a third quarter visit by a NTIS staff member to discuss user seminars; Ecuador (up 124%), which may in part reflect an increasing use of NTIS facilities by the new sub-agency; and El Salvador (up 104%), where the internal management difficulties appear to have been settled.

A drop in overall demand from the second quarter occurred but much of it may be somewhat exaggerated. The new cooperating agencies in Barbados and Jamaica are officially listed as selling almost \$7,000 less in the third quarter than they did in the second quarter. The demand in the latter quarter reflected the start-up purchase of NTIS subscriptions and publications, such as the back issues of the annual indexes of the GRA&I, that the offices needed to inaugurate their operations. The increases or decreases in demand by the other countries essentially balanced each other off, often reflecting a change in demand when cooperating agencies use NTIS publications at periodic seminars or meetings.

A major reduction in demand occurred in Honduras, a probable indication that the second quarter very high jump in sales was the abnormality and that the demand is settling down into the regular pattern. Panama also had a large drop in sales, a continuing reflection of the management uncertainty.

Finally, this report does not include in its final demand the total value of appropriate technology disseminated under the AID subsidized program to benefit disadvantaged groups. Over 600 documents were shipped during the third quarter.

DEMAND FOR STI AVAILABLE THROUGH NTIS

FROM

LATIN AMERICA & THE CARIBBEAN

3rd Quarter - FY 79

| COUNTRY | AMTID<br>DIST. | 3rd QTR (FY-79)<br>Workload Demand<br>(PC & MF)<br>Amount Value | 3rd QTR (FY-79)<br>Standing Orders<br>SUBS.<br>SRIM<br>Value | 3rd QTR (FY-79)<br>TOTAL \$ DEMAND | 2nd QTR (FY-79)<br>TOTAL \$ DEMAND | CHANGE |
|---------|----------------|---|--|------------------------------------|------------------------------------|--------|
|---------|----------------|---|--|------------------------------------|------------------------------------|--------|

|                     |        |                    |             |            |             |             |              |
|---------------------|--------|--------------------|-------------|------------|-------------|-------------|--------------|
| Argentina           | 74     | 127                | \$1,759.70  | \$ 369.39  | \$ 2,129.09 | \$ 2,042.42 | \$ 86.67     |
| *Barbados           | 100    | --                 | --          | 122.42     | 122.42      | 2,432.10    | (2,309.68)   |
| *Bolivia            | 75     | 20                 | 484.25      | 79.90      | 564.15      | 565.43      | (1.28)       |
| *Brazil             | 80     | 514                | 9,846.50    | 2,089.11   | \$1,617.75  | 13,553.36   | 10,250.97    |
| *Chile              | 200    | 157                | 2,359.50    | 459.87     | 2,819.37    | 3,418.57    | (599.20)     |
| *Colombia           | 400    | 138                | 1,459.50    | 127.51     | 1,587.01    | 1,351.99    | 235.02       |
| *Costa Rica         | 500    | 86                 | 1,357.00    | 104.81     | 1,461.81    | 426.75      | 1,035.06     |
| *Dominican Republic | 500    | 56                 | 798.75      | 141.97     | 940.72      | 156.74      | 783.98       |
| *Ecuador            | 1,000  | 52                 | 693.25      | 199.72     | 892.97      | 398.67      | 494.30       |
| *El Salvador        | 1,500  | 45                 | 762.50      | 39.24      | 167.70      | 969.44      | 470.71       |
| *Guatemala          | 1,600  | 79                 | 978.25      | 150.96     | 1,129.21    | 465.81      | 663.40       |
| Guyana              | 15     | 25                 | 165.00      | --         | 165.00      | 481.05      | (316.05)     |
| Haiti               | 60     | --                 | 40.00       | 2.69       | 42.69       | --          | 42.69        |
| *Honduras           | 500    | 43                 | 628.00      | 61.23      | 689.23      | 2,033.34    | (1,344.11)   |
| *Jamaica            | 100    | 38                 | 238.75      | 138.72     | 377.47      | 5,039.90    | (4,662.43)   |
| *Mexico             | 2,000  | 895                | 6,633.85    | 996.33     | 55.00       | 7,685.18    | (3,562.93)   |
| *Nicaragua          | 500    | 47                 | 725.25      | 103.70     | 828.95      | 880.37      | (51.42)      |
| *Panama             | 1,000  | 48                 | 773.00      | 112.39     | 885.39      | 2,666.37    | (1,780.98)   |
| Paraguay            | 53     | --                 | --          | --         | --          | 176.75      | (176.75)     |
| *Peru               | 500    | 219                | 1,605.25    | 426.57     | 205.20      | 2,237.02    | 1,141.75     |
| Trinidad/Tobago     | --     | --                 | 26.75       | 78.12      | 104.87      | --          | 104.87       |
| Uruguay             | 112    | 8                  | 84.00       | 2.59       | 86.59       | 72.24       | 14.35        |
| *Venezuela          | 200    | 79                 | 1,487.25    | 894.70     | 715.20      | 3,097.15    | 2,439.10     |
| TOTALS              | 11,069 | 2,676 <sup>1</sup> | \$32,906.30 | \$6,701.94 | \$2,760.85  | \$42,369.09 | \$48,159.14  |
|                     |        |                    |             |            |             |             | \$(5,790.05) |

NOTE: The above totals do not include the approximately 621 documents shipped between March 30, 1979 and June 28, 1979 under the AID Appropriate Technology Program.

a - Second quarter workload demand total (PC & MF) was 2,853

\* - Indicates participation in IAC/DR project as unsubsidized graduate or subsidized agency.

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TRANSLATIONS COMMISSIONED

Eighteen appropriate NTIS documents were selected for translation in accordance with the PASA Scope of Work Statement, specific Task No. (5). Various NTIS cooperating agencies were commissioned to accomplish the translations.

The following are the titles of those NTIS documents which are still pending completion or which previously lacked an accession number.

TRANSLATIONS COMMISSIONED

| <u>Title</u>  | <u>Translation by:</u>      | <u>Status</u>          | <u>Document #</u> |
|---|-----------------------------|------------------------|-------------------|
| A Manual on Building Maintenance: Vol I   | ICAITI<br>(Guatemala)       | Input                  | PB-296 655        |
| A Manual on Building Maintenance: Vol 2   | " "                         | Being Revised          |                   |
| Ferrocement: Applications in LDCs   | CENIT<br>(Nicaragua)        | Not received           |                   |
| Feasibility Test of an Approach and Prototype for Ultra Low Cost Housing        | " "                         | " "                    |                   |
| Guide for Field Crops in the Tropics and the Subtropics                         | CENAP<br>(El Salvador)      | Not received           |                   |
| An Inexpensive Economical Solar Heating System for Homes                        | NIC<br>(Peru)               | Being typed            |                   |
| State of the Art of Delivering Low Cost Health Services in Developing Countries | " "                         | " "                    |                   |
| Energy for Rural Dev. Renewable Resources and Alternative Technologies for LDCs | DGNT<br>(Bolivia)           | Waiting for orig. copy |                   |
| Underexploited Tropical Plants with Promising Economic Value                    | INDOTEC<br>(Dominican Rep.) | Being typed            |                   |
| Solar Heating of Buildings and Domestic Hot Water                               | " "                         | Not received           |                   |
| Small Wells Manual  | CII<br>(Honduras)           | Not received           |                   |

| <u>Title</u>  | <u>Translation by:</u>    | <u>Status</u>         | <u>Document #</u> |
|---|---------------------------|-----------------------|-------------------|
| An Investigation of the Interaction of Rock and Types of Rock Bolts for Selected Loading Conditions | NIC<br>(Peru)             | Being typed           |                   |
| Simple Methods of Candle Manufacture  | GTA<br>(Panama)           | Input                 | PB-296 654        |
| How to Obtain Information in Different Fields of S&T: A User's Guide                                | COLCIENCIAS<br>(Colombia) | Input                 | N.A.              |
| Consultance for Small Businesses  | NIC<br>(Peru)             | Being typeset in Peru |                   |
| Workbook for NITS Information Systems Workshop  | " "                       | Recently sent         |                   |

## INTRODUCTION

The attached: "A Workbook for Use in the NTIS International Technical Information Network" was designed as an instructional tool for users of NTIS. It was first used at the April NTIS Information Systems Workshop and will be used in all future sessions. It has also been mailed to all members of the cooperating agency network.

The workbook describes how to follow the NTIS procedures and provides examples and samples of each form that a cooperating agency needs to use. Furthermore, it describes the products and services of NTIS, how to order, market, and promote them and how to search the NTIS files.

## INTRODUCTION

The "Selected Appropriate Technologies for Developing Countries" bibliography was prepared as part of the USAID sponsored International Technical Information Network program. It is an edited search of over 1,000 "appropriate technology" citations from the NTIS Bibliographic Data File. Appropriate technology is defined as small-scale, employment-generating and energy-conserving technologies relevant to the needs and resources of developing countries.

## INTRODUCTION

The "Global Listing of Appropriate Technology Organizations and Sources" directory was prepared as part of the USAID sponsored International Technical Information Network. It is a comprehensive listing compiled in 1978 of addresses of worldwide organizations, research institutes and development groups involved in some aspect of appropriate technology.

## INTRODUCTION

The United Nations held a conference in Mexico City from June 11-15 on the transfer of technical information in Latin America. The objectives of the conference were to inform information specialists on advances in techniques for information transfer, to allow the specialists to exchange their experiences on the development of information services in order to identify the most useful methods and to consider concrete measures for regional and international cooperation.

Frank Post was invited to the meeting where he made a presentation on "The Implications of On-Line Searching to Technical Information Transfer." A copy of the speech is attached.

INTRODUCTION

The NTIS newsletter, Application of Modern Technology to International Development (AMTID) announces new technical reports on appropriate technology of particular interest to developing countries. It is the project's most effective tool for announcing available appropriate technology material to the NTIS cooperating agencies.

Attached are the four AMTID issues in English which were distributed during the third quarter along with four issues in Spanish and one in French that were translated from earlier editions.

INTRODUCTION

ACCESS, a bulletin for the U.S. AID Technical Information Network, provides information for international development. It is prepared by the Developing Country Staff of NTIS. The three most recent copies are attached.