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**SHORT-TERM  
TRAINING OPPORTUNITIES  
IN ENVIRONMENT  
AND NATURAL RESOURCES**

Office of Environment and Natural Resources  
Bureau for Research and Development  
U.S. Agency for International Development

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U.S. AGENCY FOR  
INTERNATIONAL  
DEVELOPMENT

January, 1992

Dear Reader,

What tools are available to deal with environmental problems and opportunities? Where can we obtain these tools? What training possibilities exist and how do we best proceed to form the human resource base required?

Solving a growing array of environmental problems, preventing future problems, and taking advantage of development opportunities found in the midst of these dilemmas, will require answers to these questions. This report is a preliminary step at answering some of them. It does not pretend to be complete or authoritative. It represents the information we have been able to pull together in a short time with modest resources.

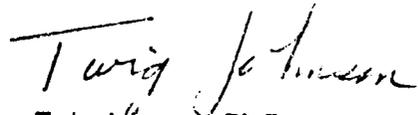
This survey of short-term, non-degree training opportunities is intended for the immediate, practical use of USAID personnel worldwide and for other organizations and personnel who will benefit from knowing what quality training exists in the broad field of environment and natural resources (ENR). We feel that this survey helps fill a real void. USAID field staff have frequently expressed their frustration about the dearth of information on short-term (one week to twelve months) ENR training. More planning and strategic action are necessary for such training, in part because of the burgeoning significance of environmental issues throughout the planet. The great majority of A.I.D./Washington-based regional bureau staff personnel contacted by R&D/ENR also stressed the need for this information. Thus, we hope this document increases awareness of what training is available, which in turn will strengthen human resource development in the vitally important environmental area.

This document is a selective survey, not an exhaustive inventory, of short-term training in ENR training in 15 topical areas. It is a "key informant" survey in that hundreds of U.S. and international organizations and individuals were contacted for information that they might have on specific training opportunities--conventional or less formal and anywhere in the world--that are suited or could be adapted for nationals of A.I.D.-recipient countries. Once we began our survey, we realized that much of this training is also appropriate for personnel from A.I.D. and other donor entities and countries.

We favor short-term ENR training conducted in the less-developed countries (LDCs) themselves whenever possible, including regional courses, involving nationals from several countries. I hope that any future update of this survey includes a higher proportion of quality training that is available in A.I.D.-recipient countries. "On demand" training can be conducted by many institutions, but we have generally not listed such training here; only a few "on demand" courses are mentioned.

We appreciated and attempted to incorporate the information and ideas sent to us by many Mission and regional bureau personnel, as well as the input of the many other individuals from bi-lateral agencies, universities, consortia and NGOs. My staff and I welcome your comments on this survey, especially on training courses that should be deleted or added, as well as participants' comments on course quality. You can help us identify other relevant, specific ENR training opportunities, conventional or less formal, that are suited or could be adapted for nationals of LDCs. You can address your comments to Environmental Training Officer, R&D/ENR, Room 509, SA-18, Agency for International Development, Washington, D.C. 20523-1812. Our FAX number is (703) 875-4639. If the responses merit, we could attempt updates--for instance, on an annual basis--of this survey.

I express our appreciation to consultants Catherine A. Hoke and Jens C. Sorensen, who conducted much of the research and analysis, and to Margot K. Kerr, who assisted in the research and development of the data base. I thank John R. Swallow, of this office, for leading this effort from inception to completion. We hope this survey is useful to USAID and LDC personnel in our efforts to balance environmental and natural resources management with socio-economic well-being.



Twig Johnson, Ph.D.  
Director, Office of Environment  
& Natural Resources  
Bureau for Research and Development

## INTRODUCTION

This document distills information obtained from hundreds of organizations and individuals. A cable was also sent to all USAID Missions and posts (STATE 334283 of 10/9/91), prompting responses and contributions by A.I.D. field staff.

This survey of short-term, non-degree training opportunities in environment and natural resources management (ENR) was designed to identify training opportunities that met the following six criteria:

**Relevance to practitioners from developing countries.**

**Relevance to policy formulation and implementation in respect to environment and natural resources management.** Training opportunities were not listed if they were oriented solely to science or technology education and did not somehow connect the education to policy making or environmental management applications.

**Recurrent and/or proposed in the 1992-1994 period.**

**Short-term.** Defined as any time period between 5 days and 12 months. Generally, the high cost of international travel precludes sending a person to a course that is less than seven days. However, it was felt that courses of short duration (5 - 7 days) could be incorporated as an "add-on" if a participant was already in-country.

**Training and course materials in English, French, Spanish, Portuguese, or Arabic.**

**Non-degree.** The term "non-degree" implies training opportunities which do not lead to a formal degree (such as a masters or baccalaureate). However, programs which offer a certificate were solicited by the survey.

The survey limited its scope to the 15 topic areas within ENR listed below. There are obvious definitional variations and overlap among the categories. The 15 areas were chosen: (1) by USAID field and Washington-based staff as the most important; and (2) because short-term training information in them was deficient, particularly in relation to host country needs. The survey does not include, per se, agriculture, environmental health or energy, readily acknowledging that each is vitally important and directly related to the 15 topic areas. First, some catalogs and reference sources already exist for training in these areas, particularly in agriculture. Second, the 15 topic areas we chose are each comprehensive and significant. Third, we did not wish to make this document any larger or more physically imposing than it is. The categories are as follows:

- AQ - Air Quality (4)**
- BD - Biological Diversity (3)**
- CM - Coastal and Marine Resources Management (7)**
- EE - Environmental Education (12)**
- EM - Environmental and/or Natural Resources Management (60)**
- FM - (Natural) Forest Management (23)**
- GC - Global Climate Change (1)**
- IA - (Environmental) Impact Assessment (13)**
- MS - Mapping, Geographic Information Systems, Image Processing (17)**
- PA - Protected Areas Management (8)**
- RE - (Natural) Resource Economics (9)**
- SW - Solid and/or Hazardous Waste Management (4)**
- WM - Wildlife Management (18)**
- WQ - Water Quality (15)**
- WR - Water Resources Management (49)**

The numbers in parentheses indicate the number of course offerings within each subject category. Because many of the training opportunities cover two or more topic areas, readers are urged to use the key word index. The decision to place a course under a topic heading was based on what was perceived to be its main focus. For example, only one course offering specifically addresses global climate change, but a course listed under "Mapping, Geographic Information Systems, Image Processing", has a component on global change. This course is cross referenced under the keyword "global climate change" in the key word index.

Each of the 15 categories has been assigned a two letter code (as listed above) which proceeds the assigned course number (i.e. IA06). Categories are listed alphabetically according to the two letter code. Numbers were assigned based on date of the offering. Offerings which will be given in 1992, but for which no date was specified, are listed first (i.e. 00/00/92), followed chronologically by those courses with known dates, and lastly by a few courses offered on an "on demand" basis (i.e. 00/00/00).

Each listing is designed to provide ten categories of information:

- Course Title**
- Provider**
- Course Dates and Duration**
- Location**
- Language**
- Targeted Participants**
- Course Objective**
- Brief Course Overview**
- Course Fees**
- Contact Information**

In some cases, not all of the required information was submitted by the training program organizer or provider, thus the occasional blank spaces. Often, the training opportunity description had to be edited to conform to our space limitations.

In addition to the keyword index, two other indexes are provided to facilitate reader searches. The second index lists training opportunities by provider. The reader can reference a specific institution in a country or region to determine whether it provides ENR training. The third index lists courses in languages other than English.

A number of course offerings which appear to be appropriate for nationals of A.I.D.-recipient countries are held in developed countries other than the United States. Before an A.I.D.-financed person is sent for training in a developed country, such as the United Kingdom or the Netherlands, A.I.D. regulations (Handbook 10, Chapter 8, Section 8-A) require that the USAID mission receive a waiver from the Director of the Office of International Training (OIT).

Some listings in this survey are courses which have been given in the past and can be given again upon demand, usually in a host-country, for an negotiated fee. All training requested by AID missions must first go through a bidding process open to a number of institutions. The OIT has established a process for responding to such "on demand" training. OIT says the process takes approximately six to eight weeks.

We have not been able to ascertain the quality of most of the courses listed. Some of the reviewers of this document have taken a few of these courses or otherwise know a considerable amount about them. Needless to say, only through actual participation in training and/or follow-up with participants can a course's worth begin to be determined. The short time frame which we used to compile this directory prohibited this type of long-term evaluation.

We offer the following criteria as means to assess the quality and appropriateness of training opportunities included in the directory, or in any update of it.

1. **Relevance**. Is the course geared to the educational and professional background of the trainee? The obvious aim of training is to transfer new skills and knowledge which have practical applicability to the trainee. The proper match between trainee and training opportunity, allows for the opportunity of successful skill transfer.

2. **Interaction**. Some of most effective training utilizes a participatory approach, allowing for interaction among trainees and those "guiding" the course. Ample opportunities for trainees to discuss and investigate issues of relevance to their particular situation generally heighten course quality.

3. **Hands-on Application**. Does the training program provide for the hands-on use of skill acquired through field study or the preparation of documents? This can help move the information from the realm of pure theory and academe to the trainees' own real-life situations.

4. **Integration**. Does the course offer some means of applying this information to the job functions of the trainee? Does leave the training course with a sense of how to integrate these new skills into his or her job duties or a specific project? An emphasis on integration increases the relevance of the materials presented and reinforces the skills acquired upon return from the training opportunity.

5. **Trainers**. Are those persons who conduct the training not only skilled technical professionals, but also effective educators, conveying information well and prompting the trainees toward analysis, synthesis and response? Do the educators understand the socio-economic, educational and political backgrounds of the participants?

6. **Recurrence and Frequency**. If the course has been offered repeatedly, it indicates demand over time and implies--one hopes correctly--some degree of merit and quality.

C.A.H  
J.C.S.  
J.R.S.

## **COURSE INFORMATION**

**AIR QUALITY  
BIOLOGICAL DIVERSITY  
COASTAL AND MARINE RESOURCES MANAGEMENT  
ENVIRONMENTAL EDUCATION  
ENVIRONMENTAL MANAGEMENT  
FOREST MANAGEMENT  
GLOBAL CLIMATE CHANGE  
IMPACT ASSESSMENT  
MAPPING, GIS, IMAGE PROCESSING  
PROTECTED AREA MANAGEMENT  
RESOURCE ECONOMICS  
SOLID AND HAZARDOUS WASTE MANAGEMENT  
WILDLIFE MANAGEMENT  
WATER QUALITY  
WATER RESOURCES MANAGEMENT**

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## AIR QUALITY

Previous Page Next

--- COURSE NUMBER: A001 ---

**TITLE:** Stationary Source Air Pollution Monitoring

**PROVIDER:** International Institute for Education

**DATES:** 03/24/92 - 07/10/92 **DURATION:** 17 weeks

**LOCATION:** Walpole, Massachusetts, USA **LANGUAGE:** English

**PARTICIPANTS:** Technical personnel from firms using combustion equipment for electrical or mechanical power generation, process steam production, or similar uses, as well as personnel from agencies responsible for monitoring air pollution sources.

**OBJECTIVE:** To provide participants with training in point source monitoring, chemical analysis, data collection, analysis and reporting.

**OVERVIEW:** Participants will have the practical experience of an internship with an air pollution monitoring firm. Training will cover all aspects of point source air pollution monitoring including technician, chemist, engineer and project manager duties.

**FEES:** Contact provider

**INFORMATION:** International Institute for Education, Department of Science and Technology, Energy Training Program, 1400 K Street, NW, Washington, DC 20005-2403, PH: 202 682-6560, FX: 202 682 6576, TLX: TRT 1561408 CETP UT

--- COURSE NUMBER: A002 ---

**TITLE:** Odor Abatement Course

**PROVIDER:** The IPACE Institute

**DATES:** 07/00/92 - 00/00/92 **DURATION:**

**LOCATION:** Kensington, New South Wales, Australia **LANGUAGE:** English

**OBJECTIVE:** To provide participants with an overview of the technology for odor abatement and criteria to select appropriate technology for any application.

**OVERVIEW:** An intensive course covering the latest technology for odor abatement, selection of appropriate technology, specification of possible efficiencies to expect; and development of appropriate monitoring. Course also available upon request.

**FEES:** \$800, estimated

**INFORMATION:** The IPACE Institute, University of New South Wales, PO Box 1, Kensington NSW 2033, Australia, PH: 61 2 697 3175, FX: 61 2 662 6983

--- COURSE NUMBER: AQ03 ---

**TITLE:** Ambient Air Quality Monitoring

**PROVIDER:** International Institute for Education

**DATES:** 08/18/92 - 11/13/92 **DURATION:** 13 weeks

**LOCATION:** Columbia, Missouri, USA **LANGUAGE:** English

**PARTICIPANTS:** Technical personnel from agencies charged with responsibility for monitoring ambient (regional not indoor) air quality, environmental managers from private firms utilizing combustion equipment, personnel from environmental engineering and services firms.

**OBJECTIVE:** To provide participants with the full practical and theoretical experience in siting, installing, operating and maintaining air quality monitoring stations, as well as analyzing and reporting the monitoring data in conformity with reporting standards.

**OVERVIEW:** Course covers instrumentation training, dispersion modeling, field work, site visits, data collection, computer training, report writing, monitoring station shutdowns, assessment of commercially available equipment and managing a monitoring program.

**FEES:** Contact provider

**INFORMATION:** International Institute for Education, Department of Science and Technology, Energy Training Program, 1400 K Street, NW, Washington, DC 20005-2403, PH: 202 682-6560, FX: 202 682 6576, TLX: TRT 1561408 CETP UT

--- COURSE NUMBER: AQ04 ---

**TITLE:** Air Pollution Control Technologies

**PROVIDER:** International Institute for Education

**DATES:** 10/13/92 - 12/02/92 **DURATION:** 7 weeks

**LOCATION:** Roanoke, Virginia, USA **LANGUAGE:** English

**PARTICIPANTS:** Plant managers and senior technical personnel with responsibility for fossil fuel operations at power plants and industrial sites. Technical personnel from national, state and local regulatory agencies responsible for the supervision of such facilities.

**OBJECTIVE:** To provide participants with comprehensive practical training on controlling environmental impacts of fossil fuel burning for industrial purposes and electric power generation at the plant level, in both old and new facilities.

**OVERVIEW:** Participants will learn to 1) determine needs and feasibility of controls at their plants; 2) select among competing technologies; 3) size specify, and procure equipment; and 4) supervise installation, operations and maintenance of environmental controls.

**FEES:** Contact provider

**INFORMATION:** International Institute for Education, Department of Science and Technology, Energy Training Program, 1400 K Street, NW, Washington, DC 20005-2403, PH: 202 682-6560, FX: 202 682 6576, TLX: TRT 1561408 CETP UT

# **BIODIVERSITY**

--- COURSE NUMBER: BD01 ---

**TITLE:** Third Course on Biodiversity Inventories

**PROVIDER:** National Biodiversity Institute

**DATES:** 01/27/92 - 07/01/92 **DURATION:** 6 months

**LOCATION:** Guanacaste Conservation Area, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** In 1992, the targeted participants are rural women.

**OBJECTIVE:** Elevate the participants--compentant adults in the rural community with littile formal education--to full competency as parataxonomists who can conduct detailed biodiversity inventories.

**OVERVIEW:** The course covers all aspects of inventory-collecting and preparation techniques, logistics (computer skills, accounting, planning), basic and advanced biology, collaboration with scientists, etc. The emphasis is on practical field work.

**FEES:** Free to those with guaranteed salary for three years upon completion of course.

**INFORMATION:** Dr. Aflio Piva, Director of the Biodiversity Inventory, INBio, 3100 Santo Domingo, Heredia, Costa Rica, FX: 506 362816

--- COURSE NUMBER: BD02 ---

**TITLE:** Management for Biotic Diversity

**PROVIDER:** Colorado State University

**DATES:** 07/13/92 - 07/17/92 **DURATION:** 1 week

**LOCATION:** Fort Collins, CO, USA **LANGUAGE:** English

**PARTICIPANTS:** Natural resource managers and those working in the field of conservation biology and management for biotic diversity on public lands.

**OBJECTIVE:** To introduce participants to the field of conservation biology, as well as to common problems encountered in the management for biotic diversity.

**OVERVIEW:** Course format consists of a series of lectures, discussion sections and computer applications on issues of biotic diversity on public lands.

**FEES:** \$500 (excluding living, travel expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

**TITLE:** Tropical Diversity and Conservation

**PROVIDER:** Organization for Tropical Studies (OTS)

**DATES:** 08/00/92 - 08/00/92 **DURATION:** 3 weeks, annually

**LOCATION:** Costa Rica **LANGUAGE:** English

**PARTICIPANTS:** Students and young professionals who seek an intensive introduction to tropical organisms and ecosystems.

**FEES:** \$1500 (students at member institutions), \$2500 (non-members)

**INFORMATION:** OTS, North American Office, PO Box DM, Duke Station, Durham, NC 27706, PH: 919 684 5774 FAX: 919 684 5661; OR OET, Oficina Centro Americano, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica PH: 506 406696 FAX: 506 406783

**COASTAL AND MARINE RESOURCES  
MANAGEMENT**

--- COURSE NUMBER: CM01 ---

**TITLE:** Coastal Zone Management

**PROVIDER:** Duke University

**DATES:** 03/09/92 - 03/13/92

**DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA

**LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester-long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Coastal zone issues and examination of coastal resources. Basic understanding of the legal framework within which coastal management must operate.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: CM02 ---

**TITLE:** Integrated Coastal Resources Management

**PROVIDER:** University of Rhode Island

**DATES:** 03/23/92 - 04/03/92

**DURATION:** 2 weeks

**LOCATION:** Hat Yai, Thailand

**LANGUAGE:** English

**PARTICIPANTS:** Course is designed for individuals from the Asia and Pacific region interested in coastal resources management.

**OBJECTIVE:** To provide participants with the practical skills required to design and implement Special Area Management Planning for coastal environments.

**OVERVIEW:** Participants will learn how to evaluate coastal management problems in small geographic areas through an issue-driven, integrated planning process and to strategically design effective management programs.

**FEES:** \$1,900 (excluding travel)

**INFORMATION:** Training Coordinator, Coastal Resources Center, The University of Rhode Island, Narragansett, RI 02882 USA, PH: 401 789 6224, FAX: 401 789 4670

--- COURSE NUMBER: CM03 ---

**TITLE:** Summer Institute in Coastal Management

**PROVIDER:** University of Rhode Island

**DATES:** 06/15/92 - 07/10/92 **DURATION:** 4 weeks

**LOCATION:** Narragansett, Rhode Island, USA **LANGUAGE:** English

**PARTICIPANTS:** Course is designed for senior and executive level professionals responsible for planning, implementing or managing coastal management programs.

**OBJECTIVE:** Participants will learn how to formulate effective strategies for the management of coastal resources and apply integrated, interdisciplinary approaches to solving coastal problems.

**OVERVIEW:** The Summer Institute emphasizes the challenges of managing coastal environments in developing nations and focuses on issues which currently dominate a manager's agenda, such as major ecological, social and economic processes and their impact.

**FEES:** \$3,900 (excluding travel)

**INFORMATION:** Training Coordinator, Coastal Resources Center, The University of Rhode Island, Narragansett, RI 02882 USA, PH: 401 789 6224, FAX: 401 789 4670

--- COURSE NUMBER: CM04 ---

**TITLE:** Coastal Zone Environmental Planning

**PROVIDER:** Asian Institute of Technology (AIT)

**DATES:** 09/01/92 - 12/30/92 **DURATION:** 13 weeks

**LOCATION:** Bangkok, Thailand **LANGUAGE:** English

**PARTICIPANTS:** Open trainees from ASEAN countries with appropriate backgrounds, such as engineering, forestry, agronomy, natural sciences or regional planning. Professional experience preferred, especially those persons sponsored by their employer.

**OVERVIEW:** Advanced resources assessment, planning and monitoring techniques, including the use of tools such as remote sensing and GIS in the planning process.

**FEES:** \$3,100 (excluding travel and expenses)

**INFORMATION:** INRDM Program Officer, Asian Institute of Technology, GOP Box 2754, Bangkok 10501, Thailand, PH: 66 2 5160110 ext 5577, FAX: 66 2 516 2126

--- COURSE NUMBER: CM05 ---

**TITLE:** Seminar on Coastal Zone Management

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 09/08/92 - 10/10/92 **DURATION:** 6 weeks

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Decision-makers, officials and other qualified candidates from ministries of public works, sea communications, physical planning, environment or fisheries; governmental advisory boards, geological survey departments, research institutions.

**OBJECTIVE:** To offer participants an integral view of coastal zone management.

**OVERVIEW:** Course will focus through lectures, seminars and field trips on identifying constraints, problems and possible solutions in development of existing coastal management systems and how to prepare action plans to improve these current systems.

**FEES:** Dfl. 7,500 (excluding travel and living expenses)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 38099 ihe nl

--- COURSE NUMBER: CM06 ---

**TITLE:** 4th International Seminar on Coastal Parks and Protected Areas

**PROVIDER:** University of Miami

**DATES:** 05/00/93 - 06/00/93 **DURATION:** 4 weeks

**LOCATION:** Miami, Florida, USA and Costa Rica **LANGUAGE:** English

**PARTICIPANTS:** Professionals employed in management, planning, research, or administration of coastal and/or marine parks and protected areas. Applicants should have a university degree or equivalent, as well as practical experience in a responsible position.

**OBJECTIVE:** to provide an opportunity for participants to update their knowledge of current methods used most successfully to plan and manage coastal and marine parks.

**OVERVIEW:** Course features site visits, demonstrations, case studies, class exercises and group challenge sessions. Emphasis is on practical knowledge. Topics include: carrying capacity, zoning, economic/social benefits, public participation and operations.

**FEES:** Contact provider

**INFORMATION:** John R. Clark, University of Miami - RSMAS, 4600 Rickenbacker Causeway, Miami, FL 33149-1098, PH: 305 361 4620, FX: 305 361 9306, TLX: 317454

**TITLE:** Coastal Zone Management

**PROVIDER:** Center of Resource Management and Environmental Studies (CERMES)

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Barbados, West Indies **LANGUAGE:** English

**PARTICIPANTS:** Decision makers and technocrats responsible for the rational use of Caribbean coastal resources.

**OVERVIEW:** Methodologies for assessment and monitoring of coastal environments and resources will be explained, as are the legal and institutional frameworks for their management and regulation. Case studies from the Caribbean region and elsewhere will be used.

**FEES:** Contact provider

**INFORMATION:** Dr. Euna A. Moore, Director, CERMES, University of the West Indies, Cave Hill Campus, PO Box 64, Bridgetown, Barbados, PH: 809 425 1310 ext. 297, FAX: 809 424 4204, TLX: UMIVADOS WB 2257

# **ENVIRONMENTAL EDUCATION**

--- COURSE NUMBER: EE01 ---

**TITLE:** Managment of Training

**PROVIDER:** Wolverhampton Polytechnic

**DATES:** 01/00/92 - 03/00/92 **DURATION:** 12 weeks

**LOCATION:** Walsall, UK **LANGUAGE:** English

**PARTICIPANTS:** Senior trainers in natural resources development projects, extension staff with training responsibilities, senior teachers and trainers of all natural resources subjects, managers of training for teachers or extension staff.

**OBJECTIVE:** To develop important management skills needed by trainers to successfully identify, plan, develop and implement training programs.

**OVERVIEW:** Course work focuses on management and administration of training/extension programs, and the planning and development of training programs, as well as optional courses in areas such as quality assurance and information technology.

**FEES:** Contact provider

**INFORMATION:** Agricultural Education and Training Unit, Wolverhampton Polytechnic, Gorway Road, Walsall, West Midlands WS1 3BD, United Kingdom, PH: 44 902 323219, FAX: 44 922 722099, TLX: 336301 POLWOL G

--- COURSE NUMBER: EE02 ---

**TITLE:** Post-Graduate Certificate in Environmental Education

**PROVIDER:** Jordanhill College of Education

**DATES:** 01/00/92 - 04/00/92 04/00/92 - 06/00/92 09/00/92 - 12/00/92 **DURATION:** 12 weeks

**LOCATION:** Glasgow, Scotland **LANGUAGE:** English

**PARTICIPANTS:** Teacher trainers and curriculum developers from developing countries. Persons who are in a position to share this knowldege and train others upon return.

**OBJECTIVE:** To produce a well trained core of people who will form a cadre for the development of environmental education programmes within formal education frameworks.

**OVERVIEW:** The course is a skills course containing four modules: 1) Planning and Process, 2) Theory and Practice in Environmental Education, 3) Curriculum School and Community, 4) Independent Study.

**FEES:** L. 1,650

**INFORMATION:** Jim Dunlop, Director of Overseas Courses, Jordanhill College of Education, Southbrae Drive, Glasgow G13 1PP. Scotland, PH: 44 41 950 3447. Hamish Aitchison, Sr. Education Officer, WWF-UK, Panda House, Weyside Park, Godalming, Surrey GU7 1XR, UK

COURSE NUMBER: EE03 ---

**TITLE:** Solving Natural Resource Problems through Social Marketing and Communication Strategies

**PROVIDER:** North American Association for Environmental Education (NAAEE)

**DATES:** 03/00/92 - 00/00/92 05/00/92 - 00/00/92 09/00/92 - 00/00/92 **DURATION:** 4 weeks

**LOCATION:** Malaysia (March), China (May), Washington, DC (September) **LANGUAGE:** English

**PARTICIPANTS:** For persons who administer or conduct education programs dealing with natural resource conservation, environmental or sustainable development issues for governmental or resource management agencies, ministries of education, zoos, schools, universities.

**OBJECTIVE:** To foster the development of a cadre of environmental educators that can implement resource based communication and social marketing strategies and teach courses in this applied environmental education.

**OVERVIEW:** The course emphasizes hands-on experience, relevant examples and in-depth analyses of the means by which education and communication strategies can be used as effective natural resource management tools with the general public and decision-makers.

**FEES:** \$2,100 (China, Malaysia), \$2,800 (Washington, DC) (all excluding airfare)

**INFORMATION:** Andrea Shotkin, NAAEE, Suite 400, 1255 23rd Street, NW, Washington, DC 20037, PH: 202 467 8753, FX: 202 862 1947, TLX: 197601 ACA DED WSH

--- COURSE NUMBER: EE04 ---

**TITLE:** Forestry and Agroforestry Training and Education

**PROVIDER:** Wolverhampton Polytechnic

**DATES:** 04/00/92 - 07/00/92 09/00/92 - 12/00/92 09/00/93 - 12/00/93 **DURATION:** 12 weeks, annually

**LOCATION:** Walsall, UK **LANGUAGE:** English

**PARTICIPANTS:** Staff responsible for the in-service training of forestry and agroforestry extension personnel, forestry and agroforestry teachers working in colleges and universities, persons involved with social forestry and agroforestry programs.

**OBJECTIVE:** Intensive training methods course for foresters and agroforesters involved in teaching, training, extension and social forestry work.

**OVERVIEW:** Units of study include planning forestry/agroforestry training programs, training methods, production of forestry/agroforestry training resources and evaluation of training.

**FEES:** Contact provider

**INFORMATION:** Agricultural Education and Training Unit, Wolverhampton Polytechnic, Gorway Road, Walsall, West Midlands WS1 3BD, United Kingdom, PH: 44 902 323219, FAX: 44 922 722099, TLX: 336301 POLWOL G

--- COURSE NUMBER: EE05 ---

**TITLE:** Communication Planning and Strategy

**PROVIDER:** Cornell University

**DATES:** 06/03/92 - 06/30/92 **DURATION:** 4 weeks

**LOCATION:** Ithaca, New York, USA **LANGUAGE:** English

**PARTICIPANTS:** Project directors, ministry officials, extension specialists, community health leaders, officers from international and bilateral development agencies, agricultural and other organizations and persons interested in communications and rural development.

**OBJECTIVE:** To increase participants' ability to use systematic communication to support development activities. It will help participants strengthen skills in designing strategies and mobilizing resources for communications components.

**OVERVIEW:** Program emphasizes the organization of communication and non-formal education programs designed for reaching various groups of people, from policymakers to villagers. Program includes a field trip to Washington, DC.

**FEES:** \$2,900 (excluding travel and living expenses)

**INFORMATION:** James E. Haldeman, Assistant Director/Training Officer, International Agriculture Program, PO Box 14, Kennedy Hall, Cornell University, Ithaca, NY 14853, USA, PH: 607 255 2283, FAX: 607 255 1005

--- COURSE NUMBER: EE06 ---

**TITLE:** Water Resources and Environment: Education, Training and Publications

**PROVIDER:** Colorado State University

**DATES:** 07/13/92 - 07/17/92 **DURATION:** 1 week

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** Higher education officials, professors of water resources and environmental education, government education officials, and support organizations concerned with water resources and environmental education.

**OBJECTIVE:** Participants will obtain an understanding of the demands for and applications of water resources education.

**OVERVIEW:** Through a workshop format, participants will discuss ideas, experiences and concepts in the field of water resources.

**FEES:** \$300 (excluding travel and living expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: EE07 ---

**TITLE:** Training of Training and Management of Training

**PROVIDER:** Management Training and Development Institute

**DATES:** 08/09/92 - 08/21/92 **DURATION:** 2 weeks

**LOCATION:** Washington, DC, USA **LANGUAGE:** English

**PARTICIPANTS:** Persons who are or will be responsible for the management of training programs.

**OBJECTIVE:** To improve the training program development and presentation skills of the participant. To enhance often overlooked managerial skills needed to implement effective training.

**OVERVIEW:** Designed to provide learning about different training approaches and the planning and management of workshops, seminars and conferences. Participants will be introduced to adult learning theories, techniques and practices.

**FEES:** \$1,450 (excluding travel and living)

**INFORMATION:** Dr. Robert C. Morris, Management Training and Development Institute, PO Box 23975, Washington DC 20026, PH: 202 646 7910, FX: 202 646 7911

--- COURSE NUMBER: EE08 ---

**TITLE:** Video Production for Training and Extension

**PROVIDER:** Management Training and Development Institute

**DATES:** 08/23/82 - 09/04/92 **DURATION:** 2 weeks

**LOCATION:** Washington, DC, USA **LANGUAGE:** English

**PARTICIPANTS:** Persons who are or will be responsible for the implementation or development of extension programs which utilize video communications.

**OBJECTIVE:** A workshop of the use of video tape to improve training and extension.

**OVERVIEW:** Provides hands-on training in planning, organizing, storyboarding, scripting, shooting and basic editing. Activities also include identification of opportunities to use video to enhance ones work; exposure to basic and state of the art equipment.

**FEES:** \$1,850 (excluding travel and living)

**INFORMATION:** Dr. Robert C. Morris, Management Training and Development Institute, PO Box 23975, Washington DC 20026, PH: 202 646 7910, FX: 202 646 7911

--- COURSE NUMBER: EE09 ---

**TITLE:** Certificate of Education

**PROVIDER:** Wolverhampton Polytechnic

**DATES:** 09/00/92 - 08/00/93 **DURATION:** 12 months

**LOCATION:** Walsall, UK **LANGUAGE:** English

**PARTICIPANTS:** Teachers and lecturers in agriculture, horticulture, forestry, fisheries and other natural resource subjects.

**OBJECTIVE:** The course is specifically designed for those who teach or intend to teach in colleges, universities and vocational secondary schools.

**OVERVIEW:** Course work focuses on teaching, assessment of learning, curriculum design and implementation, professional development and other topics. A 14-week supervised teaching experience is a central feature of the course.

**FEES:** Contact provider

**INFORMATION:** Agricultural Education and Training Unit, Wolverhampton Polytechnic, Gorway Road, Walsall, West Midlands WS1 3BD, United Kingdom, PH: 44 902 323219, FAX: 44 922 722099, TLX: 336301 POLWOL G

--- COURSE NUMBER: EE10 ---

**TITLE:** Diploma in Natural Resources Training and Education

**PROVIDER:** Wolverhampton Polytechnic

**DATES:** 09/00/92 - 06/00/93 09/00/93 - 06/00/94 **DURATION:** 9 months

**LOCATION:** Walsall, UK **LANGUAGE:** English

**PARTICIPANTS:** Extension staff with management or training responsibilities, teachers of agriculture or other rural based subjects, trainers of teachers and extension workers, staff with training responsibilities on development projects, administrative staff.

**OBJECTIVE:** To develop the training and organizational skills of extension workers, teachers of agriculture and trainers of teachers and extension workers.

**OVERVIEW:** Participants will develop skills to meet a wide range of challenges in the development, management and delivery of training programs, including identifying and analyzing training needs and managing the human, physical and financial resources of training.

**FEES:** Contact provider

**INFORMATION:** Agricultural Education and Training Unit, Wolverhampton Polytechnic, Gorway Road, Walsall, West Midlands WS1 3BD, United Kingdom, PH: 44 902 323219, FAX: 44 922 722099, TLX: 336301 POLWOL G

--- COURSE NUMBER: EE11 ---

**TITLE:** Tour Guide and Visitor Services

**PROVIDER:** College of African Wildlife Management - Mweka

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 3-12 mos., on demand

**LOCATION:** Moshi, Tanzania **LANGUAGE:** English

**OBJECTIVE:** To provide students with an understanding of interpretation, public awareness programs and visitor administration.

**OVERVIEW:** Course strikes a balance between academic work in ecology, conservation and communications issues and practical field experience. One-third of training is in the field in a variety of environments.

**FEES:** Contact provider

**INFORMATION:** The Principal, College of African Wildlife Management, PO Box 3031, Moshi, Tanzania, PH: Kibosho 18 or 24

--- COURSE NUMBER: EE12 ---

**TITLE:** Teacher Training Workshops

**PROVIDER:** Maine Audubon Society

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Falmouth, Maine, USA **LANGUAGE:** English

**PARTICIPANTS:** Primary and Secondary teachers

**OBJECTIVE:** To provide training to teachers in the environmental sciences and the presentation of environmental issues in the classroom.

**OVERVIEW:** Short workshops are available in hazardous wastes, recycling and solid waste, water resources, physical science and natural history.

**FEES:** Contact provider

**INFORMATION:** Maine Audubon Society, Environmental Education Department, 118 U.S. Route 1, Falmouth, ME 04105, PH: 207 781 2330,

**ENVIRONMENTAL/NATURAL RESOURCES  
MANAGEMENT**

--- COURSE NUMBER: EM01 ---

**TITLE:** Regional Course on Environmental Management and Development

**PROVIDER:** U.N. Economic Commission for Latin America and the Caribbean (ECLAC)

**DATES:** 00/00/92 - 00/00/92 **DURATION:** 8 weeks, TBA

**LOCATION:** Santiago, Chile **LANGUAGE:** Spanish

**PARTICIPANTS:** Government and municipal officers, trainers from national universities and other organizations in the Caribbean and Latin America.

**OBJECTIVE:** To enhance the capabilities of the participants to understand and manage the complex relationships existing between economic development and environmental protection, with particular emphasis on techniques for environmental impact assessment.

**OVERVIEW:** Through lectures and workshops, the course analyzes development and environmental issues, policies and questions; participants will also analyze potential environmental, social and political impacts of development through case studies and discussions.

**FEES:** None (Need official sponsorship)

**INFORMATION:** Alfredo Gastal, Director, Division Medio Ambiente y Asentamientos Humanos, CEPAL, Casilla 179-D, Santiago, Chile, PH: 562 206 1519/208 5051, FAX: 562 208 0252/1946, TLX: 340295

--- COURSE NUMBER: EM02 ---

**TITLE:** Sub-regional Course on Environmental Management and Development

**PROVIDER:** U.N. Economic Commission for Latin America and the Caribbean (ECLAC)

**DATES:** 00/00/92 - 00/00/92 **DURATION:** 4 weeks, TBA

**LOCATION:** Latin America and the Caribbean **LANGUAGE:** Spanish/English

**PARTICIPANTS:** Government and municipal officers from corresponding sub-region.

**OBJECTIVE:** To enhance the abilities of the participants to understand and manage the complex relationships existing between economic development and environmental protection, with special emphasis on techniques for environmental impact assessment.

**OVERVIEW:** Through lectures, discussions and workshops, the course analyzes both basic and technical aspects of environmental impact assessment and development.

**FEES:** None (Need official sponsorship)

**INFORMATION:** Alfredo Gastal, Director, Division Medio Ambiente y Asentamientos Humanos, CEPAL, Casilla 179-D, Santiago, Chile, PH: 562 206 1519/208 5051, FAX: 562 208 0252/1946, TLX: 340295

--- COURSE NUMBER: EM03 ---

**TITLE:** Tropical Dendrology

**PROVIDER:** Tropical Science Center

**DATES:** 00/00/92 - 00/00/92 **DURATION:** 6 weeks, TBA

**LOCATION:** San Jose, Costa Rica and field sites **LANGUAGE:** Spanish

**PARTICIPANTS:** Foresters, forest ecologists, ecologists, biologists and other professionals in the natural resources field with substantial experience in identifying tropical tree species.

**OBJECTIVE:** To teach a systematic method for field identification of the major families of neotropical trees and their most representative genera and species. Emphasis will be on species with recognized and potential commercial uses.

**OVERVIEW:** Course highlights characteristics of common neotropical tree families with arboreal genera, identifying trees at genus and species levels. Emphasis on families with uses for lumber, biomass, medicinal and other extractives. Extensive field work.

**FEES:** \$3,800 (excluding travel)

**INFORMATION:** Raul Solorzano, Executive Director, Tropical Science Center, Apartado 8-3870-1000, San Jose, Costa Rica, PH: 506 533267/252649, FX: 506 534963

--- COURSE NUMBER: EM04 ---

**TITLE:** Life Zone Ecology

**PROVIDER:** Tropical Science Center

**DATES:** 00/00/92 - 00/00/92 **DURATION:** 3 weeks, TBA

**LOCATION:** San Jose, Costa Rica and field sites **LANGUAGE:** Spanish

**PARTICIPANTS:** Climatologists, ecologists, biologists, foresters, agronomists, soil scientists, land use geographers, and other professional in the natural resources field involved in bioclimate vegetation prediction and land use classification and planning.

**OBJECTIVE:** To introduce the World Life Zone Classification System to potential users and to help them develop a working knowledge of its applications.

**OVERVIEW:** Course will introduce to the life zone system, its underlying concepts and its field applications. The various parameters used to determine life zones will be examined, as well as their effects on the vegetation and land use that typifies a life zone.

**FEES:** \$1,500 (excluding travel)

**INFORMATION:** Raul Solorzano, Executive Director, Tropical Science Center, Apartado 8-3870-1000, San Jose, Costa Rica, PH: 506 533267/252649, FX: 506 534963

--- COURSE NUMBER: EM05 ---

**TITLE:** Policies for Environmental Protection  
**PROVIDER:** Economic Development Institute (EDI)  
**DATES:** 00/00/92 - 00/00/92 00/00/93 - 00/00/93 **DURATION:** 5 days  
**LOCATION:** Harare, Zimbabwe (1992); Kuala Lumpur, Malaysia (1993) **LANGUAGE:** English  
**PARTICIPANTS:** Permanent secretaries, planners, engineers, economists.

**OVERVIEW:** Seminar will address environmental issues that are encountered in planning, constructing, and operating water resources development projects. The relation between land and water as part of the same ecosystem will be underlined.

**FEES:** Free if nominated by borrowing country government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: EM06 ---

**TITLE:** Population Ecology  
**PROVIDER:** Organization for Tropical Studies (OTS)  
**DATES:** 01/00/92 - 02/00/92 **DURATION:** 7 weeks, annually  
**LOCATION:** Costa Rica **LANGUAGE:** Spanish  
**PARTICIPANTS:** Students and faculty from Latin American institutions who have completed a bachelors degree in biology.

**OVERVIEW:** This course emphasizes the theory and practice of the study of plant and animal populations in natural ecosystems. More than half of the participants receive financial support through OTS; individuals of limited financial means are encouraged to apply.

**FEES:** \$3400, plus airfare to Costa Rica

**INFORMATION:** OTS, North American Office, PO Box DM, Duke Station, Durham, NC 27706, PH: 919 684 5774 FAX: 919 684 5661; OR OET, Oficina Centro Americano, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica PH: 506 406696 FAX: 506 406783

--- COURSE NUMBER: EM07 ---

**TITLE:** Interdependence: Economic Development and Environmental Concerns in Tropical Countries  
**PROVIDER:** Organization for Tropical Studies (OTS)  
**DATES:** 01/00/92 - 00/00/92 **DURATION:** 1 to 2 weeks  
**LOCATION:** Costa Rica **LANGUAGE:** English  
**PARTICIPANTS:** Intended for individuals who formulate, enact and administer public policy relating to natural resources.  
**OVERVIEW:** Intensive introduction to the issues surrounding sustainable development, conservation and natural resources management in the tropics.  
**FEES:** Contact provider  
**INFORMATION:** OTS, North American Office, PO Box DM, Duke Station, Durham, NC 27706, PH: 919 684 5774 FAX: 919 684 5631; OR OET, Oficina Centro Americano, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica PH: 506 406696 FAX: 506 406783

--- COURSE NUMBER: EM08 ---

**TITLE:** Tropical Biology: An Ecological Approach  
**PROVIDER:** Organization for Tropical Studies (OTS)  
**DATES:** 01/00/92 - 03/00/92 **DURATION:** 8 weeks, annually  
**LOCATION:** Costa Rica **LANGUAGE:** English  
**PARTICIPANTS:** Graduate students in the biological sciences.  
**OVERVIEW:** This is an intensive field course that emphasizes theory and methods of tropical ecology, with an emphasis on natural ecosystems.  
**FEES:** \$1000 (students of member institutions), \$3000 (non-members)  
**INFORMATION:** OTS, North American Office, PO Box DM, Duke Station, Durham, NC 27706, PH: 919 684 5774 FAX: 919 684 5661; OR OET, Oficina Centro Americano, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica PH: 506 406696 FAX: 506 406783

--- COURSE NUMBER: EM09 ---

**TITLE:** Participation Resources Management and Development

**PROVIDER:** Clark University

**DATES:** 01/00/92 - 05/00/92 **DURATION:** 5 months

**LOCATION:** Worcester, Massachusetts, USA **LANGUAGE:** English

**PARTICIPANTS:** Mid-career professionals working with rural resources management.

**OBJECTIVE:** Combines theoretical constructs and applied skills to analyze and plan community action.

**OVERVIEW:** Core curricula includes courses in program and project management, participation and sustainable resources management. Participants can opt to concentrate in development or natural resources management, rural development or women and development.

**FEES:** \$12,500 (excluding travel)

**INFORMATION:** Director, International Development Program, Clark University, Worcester, MA 01610, PH: 508 793 7201, FX: 508 793 8820

--- COURSE NUMBER: EM10 ---

**TITLE:** Environmental Development Planning

**PROVIDER:** Asian Institute of Technology (AIT)

**DATES:** 01/01/92 - 04/30/92 **DURATION:** 13 weeks, annually

**LOCATION:** Bangkok, Thailand **LANGUAGE:** English

**PARTICIPANTS:** Open to individuals with appropriate background, such as engineering, forestry, agronomy, natural sciences or regional planning. Professional experience is preferred, especially those persons sponsored by their employer.

**OVERVIEW:** Development planning concepts and techniques required by resource planners and managers to design and implement environmentally-sound integrated rural development schemes.

**FEES:** \$3,100 (excluding travel and expenses)

**INFORMATION:** INRDM Program Officer, Asian Institute of Technology, GOP Box 2754, Bangkok 10501, Thailand, PH: 66 2 5160110 ext 5577, FAX: 66 2 516 2126

--- COURSE NUMBER: EM11 ---

**TITLE:** District Development Planning

**PROVIDER:** University of Nottingham

**DATES:** 01/08/92 - 03/26/92 **DURATION:** 10 weeks

**LOCATION:** Nottingham, UK **LANGUAGE:** English

**PARTICIPANTS:** For national or local government officials based at district level, including development planners, physical or land use planners, general administrators and local representatives of functional ministries.

**OBJECTIVE:** To provide training in the organization and methods of development planning at district level.

**OVERVIEW:** A practical, operational approach to district planning will be adopted. Particular emphasis will be placed on achieving spatial integration of rural development activities, better coordination, communication and management.

**\*FEES:** L. 3,500 (excluding travel and housing)

**INFORMATION:** Institute of Planning Studies, University of Nottingham, Paton House, University Park, Nottingham NG7 2RD, United Kingdom, PH: 44 602 484848 ext. 3068/3063, FAX: 44 602 423503, TLX: 37346 UNINOT G

--- COURSE NUMBER: EM12 ---

**TITLE:** Legal Aspects of Environment and Natural Resources Management

**PROVIDER:** International Development Law Institute

**DATES:** 02/09/92 - 02/22/92 **DURATION:** 2 weeks

**LOCATION:** Rome, Italy **LANGUAGE:** French

**PARTICIPANTS:** For developing country lawyers and legal advisors with responsibilities for advising private or public sectors clients in development matters.

**OBJECTIVE:** To examine laws, regulations, international instruments, commercial agreements and other legal norms and their contributions to the protection and management of the natural environment.

**OVERVIEW:** Participants will improve their abilities to advise and negotiate in several fields of environmental law, such as water, soil, air and ecosystems. The concept of environmental auditing and liability will also be examined.

**FEES:** \$2,900 (excluding travel and living expenses)

**INFORMATION:** Maria Egizia Petroccione, Admissions Officer, International Development Law Institute, Via Paolo Frisi, 23, 00197, Roma, Italia, PH: 39 6 8072008, FAX: 39 6 8070333

--- COURSE NUMBER: EM13 ---

**TITLE:** Seminar on Environmental Policy, Resource Management, and Development

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 03/00/92 - 03/00/92 **DURATION:** 2 weeks

**LOCATION:** To be determined **LANGUAGE:** Arabic/English

**PARTICIPANTS:** For senior program directors and policy advisors of agencies and non-governmental organizations with primary responsibility for formulating and implementing resource management policies in rural areas.

**OBJECTIVE:** To examine the relationship between and to translate into operational measures the management of principal issues identified in Arab countries' developmental and environmental management policies.

**OVERVIEW:** Presentations will emphasize the interdisciplinary and institutional considerations that are important in designing and implementing viable resource management and environmental enhancement policies in rural areas.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: EM14 ---

**TITLE:** Habitat Evaluation Procedures

**PROVIDER:** U.S. Fish and Wildlife Service

**DATES:** 03/09/92 - 03/13/92 04/06/92 - 04/10/92 07/13/92 - 07/17/92 **DURATION:** 5 days

**LOCATION:** Florida (March), Washington (April), Colorado (July), USA **LANGUAGE:** English

**PARTICIPANTS:** Intended for project leaders and others responsible for field work and data interpretation of water resources projects, wildlife resource managers, personnel involved with development and implementation of wildlife, forest or habitat management plans.

**OBJECTIVE:** To introduce, describe and demonstrate Habitat Evaluation Procedures for impact assessment and resource management.

**OVERVIEW:** Emphasis will be placed on using Habitat Suitability Index models to assist in problem analysis, development of management plans and decision-making.

**FEES:** \$520 (excluding travel and per diem)

**INFORMATION:** Office of Conferences Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: EM15 ---

**TITLE:** Agroforestry: Sustainable Land Use for the Humid Tropics

**PROVIDER:** University for Peace

**DATES:** 03/23/92 - 04/11/92

**DURATION:** 3 weeks

**LOCATION:** Costa Rica

**LANGUAGE:** Spanish

**PARTICIPANTS:** Persons involved in development, university and technical school professors, conservationists, resource planners and specialists in related fields.

**FEES:** \$2,500 (excluding travel)

**INFORMATION:** Course Director, (Course Name), Universidad para la Paz, Apartado 199, 1250 Escazu, Costa Rica, PH: 506 491072, FAX: 506 491929

--- COURSE NUMBER: EM16 ---

**TITLE:** Outdoor Recreation

**PROVIDER:** Utah State University

**DATES:** 03/23/92 - 04/10/92

**DURATION:** 3 weeks

**LOCATION:** Logan, Utah, USA

**LANGUAGE:** English

**PARTICIPANTS:** Professional outdoor recreation planners and managers. (Limited to 30 participants).

**OBJECTIVE:** Knowledge will be gained in a variety of outdoor recreation topics and areas of concern to managers.

**OVERVIEW:** Course focuses on presenting up-to-date information and management principles/techniques not traditionally gained from other educational or training sources. The area of interest is natural resources recreation management.

**FEES:** \$3,450 (excluding travel)

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: EM17 ---

**TITLE:** Environmental Toxicology and Risk Assessment

**PROVIDER:** Duke University

**DATES:** 03/30/92 - 03/03/92 **DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA **LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resources management who do not have the time/opportunity for semester-long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Fundamental understanding of processes that control the transport, fate and effects of key groups of environmental contaminants. Analyzed in the context of risk assessment, using tools of modeling, uncertainty analysis and decision theory.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: EM18 ---

**TITLE:** Ecological Principles for the Management of Natural Resources in Latin America

**PROVIDER:** Organization for Tropical Studies (OTS)

**DATES:** 04/00/92 - 00/00/92 **DURATION:** 3 weeks, TBA

**LOCATION:** Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** Intended for private and public sector professionals whose jobs involve interaction between human affairs and natural resources, but whose formal education has included minimal training in the environmental sciences.

**OVERVIEW:** To introduce participants to ecology, management and administration.

**FEES:** Contact provider

**INFORMATION:** OTS, North American Office, PO Box DM, Duke Station, Durham, NC 27706, PH: 919 684 5774 FAX: 919 684 5661; OR OET, Oficina Centro Americano, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica PH: 506 406696 FAX: 506 406783

--- COURSE NUMBER: EM19 ---

**TITLE:** Fellowship Opportunities for Caribbean Conservation Professionals

**PROVIDER:** Atlantic Center for the Environment

**DATES:** 04/30/92 - 10/00/92 **DURATION:** 6-8 weeks

**LOCATION:** Ipswich, Massachusetts, USA **LANGUAGE:** English

**PARTICIPANTS:** Conservation professionals working with local NGOs concerned with natural resource management, environmental education and land stewardship in the wider Caribbean region.

**OBJECTIVE:** To provide participants with the opportunity to develop skills and professional abilities in selected conservation fields; 2) exchange ideas with their counterparts in another region; and 3) form cooperative linkages with other NGOs.

**OVERVIEW:** Tailored training/professional development opportunity for individual groups. Program relies on study-tour and field placements. Areas of focus include: environmental education, conservation of rivers and watersheds and wildlife conservation.

**FEES:** Fellowships offered, \$500 - \$1000 participant contribution

**INFORMATION:** Director, International Programs, Atlantic Center for the Environment, 39 S. Main Street, Ipswich, MA 01938, PH: 508 356 0038, FX: 508 356 7322

--- COURSE NUMBER: EM20 ---

**TITLE:** Innovative Approaches for Protecting the Environment

**PROVIDER:** INTRADOS/International Management Group

**DATES:** 05/18/92 - 05/29/92 **DURATION:** 2 weeks

**LOCATION:** Washington, DC, USA **LANGUAGE:** English

**PARTICIPANTS:** Design for senior-level professionals with environmental backgrounds as well as those with responsibility for private sector development.

**OBJECTIVE:** To assist participants to identify mechanisms to link environmental considerations with private sector development and economic growth.

**OVERVIEW:** Policy issues and financing techniques will be discussed, with an emphasis on expanding markets and opportunities for the private sector and channelling investment in projects which are both commercially viable and environmentally sustainable.

**FEES:** \$2,950 (group fellowships available)

**INFORMATION:** Deborah Thornton, Director, Training Division, INTRADOS/IMG, 2020 Connecticut Avenue, NW, Washington, DC 20008, PH: 202 667 8270, FAX: 202 223 8791, TLX: 3734190 INTRADOS

--- COURSE NUMBER: EM21 ---

**TITLE:** Agro-ecology  
**PROVIDER:** Organization for Tropical Studies (OTS)  
**DATES:** 06/00/92 - 07/00/92 **DURATION:** 6 weeks, annually  
**LOCATION:** Costa Rica **LANGUAGE:** Spanish  
**PARTICIPANTS:** Intended for students and professionals in agronomy, forestry, biology and related fields.  
**OBJECTIVE:** To examine agricultural systems from an ecological perspective.  
**OVERVIEW:** Interdisciplinary focus on agricultural systems from an ecological perspective.  
**FEES:** \$3,400 (excluding travel)  
**INFORMATION:** OTS, North American Office, PO Box DM, Duke Station, Durham, NC 27706, PH: 919 684 5774 FAX: 919 684 5661; OR OET, Oficina Centro Americano, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica PH: 506 406696 FAX: 506 406783

--- COURSE NUMBER: EM22 ---

**TITLE:** Tropical Biology: An Ecological Approach  
**PROVIDER:** Organization for Tropical Studies (OTS)  
**DATES:** 06/00/92 - 08/00/92 **DURATION:** 8 weeks, annually  
**LOCATION:** Costa Rica **LANGUAGE:** Spanish  
**PARTICIPANTS:** Graduate students in the biological sciences.  
**OVERVIEW:** This is an intensive field course that emphasizes theory and methods of tropical ecology with an emphasis on natural ecosystems.  
**FEES:** \$1000 (students of member institutions), \$3000 (non-members)  
**INFORMATION:** OTS, North American Office, PO Box DM, Duke Station, Durham, NC 27706, PH: 919 684 5774 FAX: 919 684 5661; OR OET, Oficina Centro Americano, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica PH: 506 406696 FAX: 506 406783

--- COURSE NUMBER: EM23 ---

**TITLE:** Multiple Use Management of Rangelands

**PROVIDER:** New Mexico State University

**DATES:** 06/01/92 - 07/10/92

**DURATION:** 6 weeks

**LOCATION:** Las Cruces, New Mexico, USA

**LANGUAGE:** English

**PARTICIPANTS:** Professional and administrative personnel engaged in planning, managing and developing arid and semi-arid rangelands and forests, range and livestock officers, extension specialists, technicians, ranchers, graduate or undergraduate students.

**OBJECTIVE:** To provide a framework for rangeland development and planning, emphasizing extensive range production with hands-on applications.

**OVERVIEW:** Course, through lecture and field trips, will focus on a variety of rangeland management topics including range ecology, livestock management and analysis of the human factors affecting range projects in developing countries.

**FEES:** \$3,000 (excluding travel and per diem)

**INFORMATION:** Dr. Paul E. Huntsberger, Assistant Director, Center for International Programs, New Mexico State University, Box 30001, Dept. 3567, Las Cruces, NM 88003-3567, PH: 505 646 4735, FX: 505 646 1517, TLX: 910 9830549

--- COURSE NUMBER: EM24 ---

**TITLE:** International Integrated Resource Management

**PROVIDER:** Colorado State University

**DATES:** 06/01/92 - 06/19/92

**DURATION:** 3 weeks

**LOCATION:** Fort Collins, Colorado, USA

**LANGUAGE:** English

**PARTICIPANTS:** Professionals managing forest systems, administrators, service foresters, fire managers, timber managers, and wildlife, range and watershed managers.

**OBJECTIVE:** To develop proficiency in managing forest systems where multiple resource interactions are important.

**OVERVIEW:** Course will focus on management and planning techniques for integrated forest ecosystems. Instruction of formal planning methods with emphasis on geographic information systems and environmental assessment.

**FEES:** \$3,000 (excluding travel and expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: EM25 ---

**TITLE:** Land Use Planning for Community Forestry and Natural Resource Development

**PROVIDER:** University of Idaho

**DATES:** 06/08/92 - 07/17/92 **DURATION:** 6 weeks

**LOCATION:** Moscow, Idaho, USA **LANGUAGE:** English

**PARTICIPANTS:** This annual course, begun in 1981, is designed for developing country regional planners with a limited academic background in planning at the local or national level, and natural resources specialists working on land use planning teams.

**OBJECTIVE:** Focus is on techniques used in assessing the social and cultural environments in a land area with lesser emphasis on physical and biological factors.

**OVERVIEW:** Participants will develop knowledge and skills to define, analyze and evaluate land use planning in the context of natural resource policy and management; understand the importance of involving local people in planning, development and implementation.

**FEES:** \$4,217 (excluding travel and insurance)

**INFORMATION:** Gleanne Wray, Associate Director, International Programs Office, 216 Morrill Hall, University of Idaho, Moscow, ID 83843, PH: 208 885 8984, FAX: 208 885 6198, TLX: 4931712 IPO UI

--- COURSE NUMBER: EM26 ---

**TITLE:** Applied Ecology

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 06/23/92 - 09/20/92 **DURATION:** 8 weeks

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Open to environmental scientists and decision-makers in agencies dealing with environmental management.

**OBJECTIVE:** To integrate scientific research and planning with the implementation of environmental management plans.

**OVERVIEW:** The course consists of lectures on ecosystem analysis, management goals based on sustainable development and the tools available. Case studies and workshops will provide additional forums for analysis of environmental management problems and solutions.

**FEES:** Dfl. 5,000 (excluding travel and living expenses)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 38099 ihe nl

--- COURSE NUMBER: EM27 ---

**TITLE:** Management for Sustainable Natural Resource Development & Environmental Protection

**PROVIDER:** University of Tennessee

**DATES:** 06/28/92 - 07/24/92 **DURATION:** 4 weeks

**LOCATION:** Knoxville, Tennessee, USA **LANGUAGE:** English

**PARTICIPANTS:** Designed for mid-level professionals in agencies concerned with natural resources management, environmental protection and rural or regional planning.

**OBJECTIVE:** To promote management that encourages sustainable development of natural resources, seeking a balance between economic productivity and preservation of those resources for future generations.

**OVERVIEW:** The course will combine classroom instruction and discussion; analysis of natural resource management case studies; and analysis and discussion of cases from participants' home countries.

**FEES:** \$2,750 (excluding travel and living expenses)

**INFORMATION:** Dr. Robert Orr, Office of International Agricultural Programs, University of Tennessee, 320 Morgan Hall, Knoxville, TN 37901-1071, PH: 615 974 7476, FAX: 615 974 7448, TLX: UTSU PBKST 557461

--- COURSE NUMBER: EM28 ---

**TITLE:** Sustainable Development of Dryland Regions: Planning and Management for Multiple Use

**PROVIDER:** University of Arizona

**DATES:** 06/29/92 - 08/07/92 **DURATION:** 6 weeks

**LOCATION:** Tucson, Arizona, USA **LANGUAGE:** English

**PARTICIPANTS:** Mid-level technicians and personnel engaged in management and development of dryland regions in developing countries.

**OBJECTIVE:** To develop participants' understanding of planning and management of resource development in dryland regions, developmental planning strategies and practical experience in real-world problem solving in resource development programs.

**OVERVIEW:** Participants will be trained to understand, appreciate and integrate the bio-physical and socio-economical components of sustainable development of dryland regions.

**FEES:** Contact provider

**INFORMATION:** Charles F. Hutchinson, University of Arizona, Arizona Remote Sensing Center, Office of Arid Lands Studies, 845 N. Park Avenue, Tucson, AZ 85719, PH: 602 621 7896, FX: 602 621 3816, TLX: 1561507 ARID UT

--- COURSE NUMBER: EM29 ---

**TITLE:** Integrated Management of Semi-Arid Lands

**PROVIDER:** Colorado State University

**DATES:** 06/29/92 - 07/10/92 **DURATION:** 2 weeks

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** Designed for international students and international natural resource managers in forestry, natural resources, hydrology, civil and architectural engineering, watershed management and land use planning.

**OBJECTIVE:** View integrated management projects in semi-arid areas and discuss them with project managers; develop concepts related to policies, plans, organization and budgets which facilitate integrated management.

**OVERVIEW:** The course is designed to provide participants with an opportunity to examine numerous field examples of integrated management of semi-arid lands with practicing resource managers.

**FEES:** \$1,850 (excluding travel and living expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: EM30 ---

**TITLE:** Natural Resources Policy

**PROVIDER:** U.S. Department of Agriculture

**DATES:** 07/13/92 - 08/21/92 **DURATION:** 6 weeks

**LOCATION:** Washington, DC, USA **LANGUAGE:** English

**PARTICIPANTS:** Senior-level natural resource policy makers and those responsible for implementing the policies. Useful to officials in countries currently determining/reviewing national goals, objectives and policies related to natural resource management.

**OBJECTIVE:** Develop skills to formulate and evaluate policy strategies, methods for implementation, identify ecological, social, political and economic consequences, devise action plan for application upon return.

**OVERVIEW:** Participants will present and work with actual situations as they exist in their own countries, discuss them with their colleagues, and focus on strategies and alternatives for their own unique home country situation.

**FEES:** To be determined

**INFORMATION:** Short Course Coordinator, Development Resources Division, OICD, U.S. Department of Agriculture, Washington, DC 20250-4300, PH: 202 690 1801, FX: 202 245 5960

--- COURSE NUMBER: EM31 ---

**TITLE:** Land Tenure and Natural Resource Management Short Course

**PROVIDER:** University of Wisconsin, Land Tenure Center

**DATES:** 07/13/92 - 07/31/92 **DURATION:** 3 weeks

**LOCATION:** Mbour, Senegal **LANGUAGE:** French

**PARTICIPANTS:** Governmental and non-governmental program planners and administrators working in fields of natural resource management; researchers with social science and economics backgrounds and those with at least a bachelor's degree.

**OBJECTIVE:** To provide participants with broad understanding of African tenure systems and policies, and their impact upon resource use and management.

**OVERVIEW:** The course will focus on land tenure issues in French-speaking Africa, beginning with the causes and consequences of land degradation, different types of land tenure and will conclude with a review of the array of policy avenues available for land tenure.

**FEES:** Estimated \$3,850-\$4,000 (excluding travel)

**INFORMATION:** Dr. Mark S. Freudenberger, Land Tenure Center, University of Wisconsin-Madison, 1300 University Avenue, Madison, WI 53706, PH: 608 262 3657, FAX: 608 262 2141; Or M. Bienvenu SAMBOU, Institut des Sciences de l'Environnement, Dakar-Fann, Senegal

--- COURSE NUMBER: EM32 ---

**TITLE:** Environmental Management Course for Development Planning

**PROVIDER:** Ian McDonald Associates (IMA)

**DATES:** 07/13/92 - 09/26/92 **DURATION:** 11 weeks

**LOCATION:** Sussex, United Kingdom **LANGUAGE:** English

**FEES:** L. 6,500 (excluding travel and expenses)

**INFORMATION:** Course Administrator, IMA, 36 Robertson Road, Brighton, BN1 5NL, United Kingdom, PH:44 273 559000, FX: 44 273 500045

--- COURSE NUMBER: EM33 ---

**TITLE:** Women in the Environmental Management Process  
**PROVIDER:** Ian McDonald Associates (IMA)  
**DATES:** 07/13/92 - 09/26/92 **DURATION:** 11 weeks  
**LOCATION:** Sussex, United Kingdom **LANGUAGE:** English  
**FEES:** L. 6,500 (excluding travel and expenses)  
**INFORMATION:** Course Administrator, IMA, 36 Robertson Road, Brighton, BN1 5NL, United Kingdom, PH:44 273 559000, FX: 44 273 500045

--- COURSE NUMBER: EM34 ---

**TITLE:** Gender, Resource Management and Development  
**PROVIDER:** Clark University  
**DATES:** 08/00/92 - 12/00/92 **DURATION:** 3 months  
**LOCATION:** Worcester, Massachusetts, USA **LANGUAGE:** English  
**PARTICIPANTS:** Beginning or mid-career professionals working in natural resources, women's roles, community development or related concerns.  
**OBJECTIVE:** To provide the theoretical base and applied skills for analyzing gender, community organization and natural resource management in the context of sustainable development objectives.  
**OVERVIEW:** Two required courses: 1) Gender, Resources and Development and, 2) Policies, Projects and Strategies for Change. Participants also choose two courses in one of the following areas: development or natural resources management or rural development.  
**FEES:** \$11,500 (excluding travel)  
**INFORMATION:** Director, International Development Program, Clark University, Worcester, MA 01610, PH: 508 793 7201, FX: 508 793 8820

--- COURSE NUMBER: EM35 ---

**TITLE:** Agricultural and Natural Resources Policy Analysis

**PROVIDER:** Food Research Institute

**DATES:** 08/03/92 - 08/28/92 **DURATION:** 4 weeks

**LOCATION:** Stanford, California, USA **LANGUAGE:** English

**PARTICIPANTS:** Agricultural policy analysts, natural resource specialists, university faculty and economic consultants.

**OBJECTIVE:** To cast traditional agricultural policy issues and techniques into a broader framework of natural resource policy.

**OVERVIEW:** Course will focus through lecture and workshops on agricultural policy issues relating to natural resource policy and management; emphasis will be given to the trade-offs between comparative advantage and sustainability when the two are in conflict.

**FEES:** \$2,950 (excluding travel and per diem)

**INFORMATION:** Professor Carl H. Gotsch, Food Research Institute, Stanford University, Stanford, CA 94305, PH: 415 723 3095, FX: 415 725 7007

--- COURSE NUMBER: EM36 ---

**TITLE:** Environmental Planning and Management

**PROVIDER:** California State Polytechnic University, Pomona

**DATES:** 08/10/92 - 08/28/92 **DURATION:** 3 weeks

**LOCATION:** Pomona, California, USA **LANGUAGE:** English

**PARTICIPANTS:** Government officials, extension agents, land use specialists, city planners, private sector managers, architects, community organizers, educators and environmental researchers.

**OBJECTIVE:** To develop participants' skills in assessing environmental problems and impacts of programs and to apply creative processes and generate ideas for possible solutions to land use issues.

**OVERVIEW:** Participants will learn to identify issues involved in a land use planning situation, arising from natural resources or economic, political and social concerns; to organize a planning effort to deal with them.

**FEES:** \$3,000 (excluding room and board, estimated at \$1,188)

**INFORMATION:** Dorothy D. Wills, International Training Coordinator, International Center, California State Polytechnic University, 3801 W. Temple Avenue, Pomona, CA 91768, PH: 714 869 3336, FX: 714 869 3282

--- COURSE NUMBER: EM37 ---

**TITLE:** Computer Applications for Agricultural and Natural Resource Management

**PROVIDER:** Oregon State University

**DATES:** 08/17/92 - 08/28/92 **DURATION:** 2 weeks

**LOCATION:** Corvallis, Oregon, USA **LANGUAGE:** English

**OBJECTIVE:** To provide participants with a working knowledge of IBM-compatible computer systems, building and using computer spreadsheets for natural resources management, using computer generated statistics and methods for graphically presenting data.

**OVERVIEW:** Participants will work with an IBM 386 personal computer to organize and analyze natural resource and agricultural inventory data.

**FEES:** TBD (excluding travel, room and board)

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686 OSU CID COVS

--- COURSE NUMBER: EM38 ---

**TITLE:** Diploma in Resource Management and Environmental Studies

**PROVIDER:** Center of Resource Management and Environmental Studies (CERMES)

**DATES:** 09/00/92 - 08/00/93 **DURATION:** 12 months, annually

**LOCATION:** Barbados, West Indies **LANGUAGE:** English

**PARTICIPANTS:** Post-graduate level students from the Caribbean region with experience in environment or conservation.

**OBJECTIVE:** To increase expertise at the management level in resource use and environmental planning.

**OVERVIEW:** Students are required to take five units of course work and complete a research project. Core curriculum focuses on terrestrial resource management, coastal zone management or fisheries. Electives can be selected from a variety of fields.

**FEES:** Contact provider

**INFORMATION:** Dr. Euna A. Moore, Director, CERMES, University of the West Indies, Cave Hill Campus, PO Box 64, Bridgetown, Babardos, PH: 809 425 1310 ext. 297, FAX: 809 424 4204, TLX: UNIVADOS WB 2257

--- COURSE NUMBER: EM39 ---

**TITLE:** Certificate in Natural Resources Management

**PROVIDER:** University of Michigan

**DATES:** 09/00/92 - 05/00/93 **DURATION:** 9 months, annually

**LOCATION:** Ann Arbor, Michigan, USA **LANGUAGE:** English

**PARTICIPANTS:** Early to mid-career professionals interested in advanced training in natural resources management and organizational development.

**OBJECTIVE:** To help participants further develop their technical understanding of emerging natural resource and environmental fields and research.

**OVERVIEW:** Course work will include core courses required of all students, selections from a list of required courses in natural resources and environmental management in the biological and social sciences, and open electives.

**FEES:** Contact provider. Financial assistance available.

**INFORMATION:** School of Natural Resources, University of Michigan, 430 East University, Ann Arbor, MI 48109-1115, USA, PH: 313 747 4337 FAX: 313 936 2195

--- COURSE NUMBER: EM40 ---

**TITLE:** Environmental Management Course

**PROVIDER:** UNEP/Tufts University

**DATES:** 09/00/92 - 12/00/92 **DURATION:** 4 months

**LOCATION:** Bedford, Massachusetts, USA **LANGUAGE:** English

**PARTICIPANTS:** Mid-career environmental managers from developing nations. UNEP fellows will be nominated by their national governments on the basis of likely level of impact upon returning home or to parent organizations.

**OBJECTIVE:** To provide environmental training for specialists in various scientific and technological disciplines in the context of sustainable development.

**OVERVIEW:** Focus will be on transferable and sustained practices of environmental preservation and development through courses, field trips, symposia and research projects.

**FEES:** Contact provider

**INFORMATION:** Dr. M. Atchia, Chief, Environmental Education and Training Unit, UNEP, PO Box 30552, Nairobi, Kenya, PH: 254 2 333930, FX: 254 2 520711

--- COURSE NUMBER: EM41 ---

**TITLE:** Senior Advanced Course on Lowland Development

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 09/15/92 - 10/02/92 **DURATION:** 3 weeks

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Professionals actively working in the field of land and water development, particularly in lowland areas. Best suited to senior engineers with five to ten years of relevant experience.

**OBJECTIVE:** To provide training on lowland development and management for senior professionals.

**OVERVIEW:** Course will focus on representative lowland areas in South and Southeast Asia and will consist of lectures, workshops, field visits and excursions. Participants will formulate alternative development and management plans.

**FEES:** Dfl. 5,000 (excluding travel and living expenses)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 38099 ihe nl

--- COURSE NUMBER: EM42 ---

**TITLE:** Environmental Management for Developing Countries

**PROVIDER:** UNEP/UNESCO/Dresden University of Technology

**DATES:** 10/00/92 - 07/00/93 **DURATION:** 10 months

**LOCATION:** Dresden, Federal Republic of Germany **LANGUAGE:** English

**PARTICIPANTS:** Open to candidates with a Bachelors of Science or Arts and some experience in a relevant field such as ecology, forestry, economics, social sciences, pollution control or agriculture.

**OVERVIEW:** The program is divided into a core curriculum of courses in general environmental and conservation issues, specialized studies and an individual or team research project.

**FEES:** Contact provider

**INFORMATION:** Dr. Heiner Kluge, Dresden University of Technology, Faculty of Civil Engineering, Water Resources Management and Forestry, Parkstr 5, 15-15, 0-8010, Dresden, FDR, PH: 49 55707/55607, TLX: 2278y TEUNIDD

--- COURSE NUMBER: EM43 ---

**TITLE:** Diploma in Rural and Regional Resources Planning

**PROVIDER:** University of Aberdeen, Department of Geography

**DATES:** 10/00/92 - 09/00/93 **DURATION:** 12 months

**LOCATION:** Aberdeen, Scotland **LANGUAGE:** English

**PARTICIPANTS:** Graduates from both developed and developing countries with a first degree in any relevant subject and/or practical experience.

**OBJECTIVE:** To provide practical training in many aspects of resource planning and environmental management.

**OVERVIEW:** Course has two major themes: environmental management and rural development. Key topics include: planning techniques, data handling, remote sensing, GIS, rural economic development, rural sociology, countryside planning, resources and the environment.

**FEES:** L. 2104 (EEC students), L. 6780 (overseas students)

**INFORMATION:** Course Director, University of Aberdeen, Department of Geography, Elphinstone Road, Aberdeen AB9 2UF, Scotland, UK, PH: 44 224 272333, FX: 44 224 487048, TLX: 73458 UNIABN G

--- COURSE NUMBER: EM44 ---

**TITLE:** Diploma in Ecology

**PROVIDER:** University of Aberdeen, Department of Zoology

**DATES:** 10/00/92 - 09/00/93 **DURATION:** 12 months

**LOCATION:** Aberdeen, Scotland **LANGUAGE:** English

**PARTICIPANTS:** Conservationists, resource managers.

**OBJECTIVE:** To provide sound theoretical and practical training in basic ecological principles and their application in conservation, resource planning and environmental improvement.

**OVERVIEW:** Course covers population and community ecology, conservation of ecosystems, and applied topics such as forestry, soil conservation, remote sensing and pollution control. Field courses provide practical training. Independent research project is required.

**FEES:** L. 2104 (EEC students), L. 6780 (overseas students)

**INFORMATION:** Course Director, University of Aberdeen, Department of Zoology, Tillydrone Avenue, Aberdeen AB9 2TN, Scotland, UK, PH: 44 224 272880, FX: 44 224 272396

--- COURSE NUMBER: EM45 ---

**TITLE:** Diploma in Environmental Science

**PROVIDER:** University of Aberdeen, Department of Zoology

**DATES:** 10/00/92 - 09/00/93 **DURATION:** 12 months

**LOCATION:** Aberdeen, Scotland **LANGUAGE:** English

**PARTICIPANTS:** Environmental/resource managers; pollution control officers; reserve wardens/rangers.

**OBJECTIVE:** To provide broadly based training in environmental science, with emphasis on land use and ecological training including practical techniques.

**OVERVIEW:** Course covers forestry, agriculture, soil science and conservation, ecology, pollution control and impact assessment. Practical training in biological survey techniques and other relevant skills. Independent research project included.

**FEES:** L. 2104 (EEC students), L. 6780 (overseas students)

**INFORMATION:** Course Director, University of Aberdeen, Department of Zoology, Tillydrone Avenue, Aberdeen AB9 2TN, Scotland, UK, PH: 44 224 272880, FX: 44 224 272396

--- COURSE NUMBER: EM46 ---

**TITLE:** Certificate in Environmental Conservation

**PROVIDER:** Tairawhiti Polytechnic

**DATES:** 11/00/92 - 00/00/93 **DURATION:** 36 weeks

**LOCATION:** Gisborne, New Zealand **LANGUAGE:** English

**PARTICIPANTS:** For all persons interested in working in the field of conservation.

**OBJECTIVE:** To provide participants with the skills necessary for employment with regional conservation authorities.

**OVERVIEW:** Introduces students to a range of natural areas through field and classroom studies. It teaches basic skills for the renovation and protection of natural areas and the environment. 60% of course work involves hands-on projects.

**FEES:** Contact provider

**INFORMATION:** David Scott, International Students, Tairawhiti Polytechnic, PO Box 640, Gisborne, New Zealand

--- COURSE NUMBER: EM47 ---

**TITLE:** Conservation and Ecology

**PROVIDER:** Manawatu Polytechnic

**DATES:** 11/00/92 - 00/00/93 **DURATION:** 36 weeks

**LOCATION:** Levin, New Zealand **LANGUAGE:** English

**PARTICIPANTS:** For all persons interested in working in the field of conservation.

**OBJECTIVE:** To provide participants with the skills necessary for employment with regional conservation authorities.

**OVERVIEW:** Introduces students to a range of natural areas through field and classroom studies. It teaches basic skills for the renovation and protection of natural areas and the environment. 60% of course work involves hands-on projects.

**FEES:** Contact provider

**INFORMATION:** Garry Moltzen, Manawatu Polytechnic, Private Bag, Palmerston North, New Zealand, PH: 64 6 356 7104

--- COURSE NUMBER: EM48 ---

**TITLE:** Legal Aspects of Environmental Resource Management in Developing Countries

**PROVIDER:** International Development Law Institute

**DATES:** 11/29/92 - 12/12/92 **DURATION:** 2 weeks

**LOCATION:** Rome, Italy **LANGUAGE:** English

**PARTICIPANTS:** Developing country lawyers and legal advisors with responsibility for advising private or public sector clients on development matters.

**OBJECTIVE:** To examine the ways that laws, regulations, international instruments, commercial agreements and other legal norms contribute to the protection and management of the natural environment.

**OVERVIEW:** Participants will improve their abilities to advise and negotiate in several areas of environmental law. The concept of environmental auditing and liability will also be examined.

**FEES:** \$2,900 (excluding travel and living expenses)

**INFORMATION:** Maria Egizia Petroccione, Admissions Officer, International Development Law Institute, Via Paolo Frisi, 23, 00197, Roma, Italia, PH: 39 6 8072008, FAX: 39 6 8070333

--- COURSE NUMBER: EM49 ---

**TITLE:** Environmental Management Policies and Institutions  
**PROVIDER:** Economic Development Institute (EDI)  
**DATES:** 00/00/93 - 00/00/93 00/00/93 - 00/00/93 00/00/94 - 00/00/94 **DURATION:** 10 days  
**LOCATION:** Brazil or Ecuador (1993), Poland (93), Oman or Bahrain (94) **LANGUAGE:** As appropriate  
**PARTICIPANTS:** Senior decision makers, policy-makers and planners.

**OVERVIEW:** Seminar will discuss emerging issues in environmental management in relation to development, and in terms of symptoms, causes and effects vis-a-vis sustainability. Topics of regional interest will be highlighted.

**FEES:** Free if nominated by borrowing country government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: EM50 ---

**TITLE:** Project Management for Natural Resource Professionals  
**PROVIDER:** University of Idaho  
**DATES:** 00/00/00 - 00/00/00 **DURATION:** 2 weeks, on demand  
**LOCATION:** Moscow, Idaho, USA or host country **LANGUAGE:** English  
**PARTICIPANTS:** Designed for junior and mid-level resource professionals

**OVERVIEW:** The course attempts to upgrade the ability of participants to apply project management skills to managerial problems within their sponsoring organizations through a blend of classroom instruction and field trips.

**FEES:** To be determined

**INFORMATION:** Gleanne Wray, Associate Director, International Programs Office, 216 Morrill Hall, University of Idaho, Moscow, ID 83843, PH: 208 885 8984, FAX: 208 885 6198, TLX: 4931712 IPO UI

--- COURSE NUMBER: EM51 ---

**TITLE:** Natural Resource Protection through Sustainable Development Projects at the Community Level

**PROVIDER:** Fundacion Neotropica

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 1 wk-3 mo, on demand

**LOCATION:** Osa Peninsula, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** Technician who already have some knowledge of environmental sciences and sustainable development applications.

**OBJECTIVE:** Trainees will participate in activities involving conservation and sustainable development through field work with communities and grass-roots groups located in buffer zones in the Osa Peninsula.

**OVERVIEW:** Training is hands-on and each course is designed according to specific interests of participants. Each trainee will work directly with a staff member, accompanying him/her in work with community groups in areas such as ecotourism, forestry, etc.

**FEES:** \$40/day (excluding travel to Osa)

**INFORMATION:** Fundacion Neotropica, Apartado 236-1002, San Jose, Costa Rica, PH: 506 330003, FX: 506 330617

--- COURSE NUMBER: EM52 ---

**TITLE:** Behavior of Chemicals in the Environment

**PROVIDER:** Oregon State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Corvallis, Oregon, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Laymen, undergraduate and graduate students and those involved with fundamental research. Course will be adapted to needs of participants.

**FEES:** \$600-800 per participant per week

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686  
OSU CID COVS

--- COURSE NUMBER: EM53 ---

**TITLE:** Environmental Toxicology  
**PROVIDER:** Oregon State University  
**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand  
**LOCATION:** Corvallis, Oregon, USA or host country **LANGUAGE:** English  
**PARTICIPANTS:** Laymen, undergraduate and graduate students and those involved with fundamental research.  
Course will be adapted to needs of participants.  
**FEES:** \$600-800 per participant per week  
**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development,  
Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686  
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--- COURSE NUMBER: EM54 ---

**TITLE:** Microcomputer Applications for Natural Resources  
**PROVIDER:** Washington State University  
**DATES:** 00/00/00 - 00/00/00 **DURATION:** 15 days, on demand  
**LOCATION:** Pullman, Washington, USA or host country **LANGUAGE:** English  
**PARTICIPANTS:** Designed for natural resource management personnel, wildlife, fisheries and post managers.  
**OBJECTIVE:** To learn basic principles of pest dynamics, modeling, forecasting and management through the use  
of micro-computer programs.  
**OVERVIEW:** Will provide resource management specialists with experience in using micro computers to analyze  
and interpret data from regular surveys, and in building simple models that can be used to  
forecast population trends and evaluate management alternatives.  
**FEES:** \$3,850 (excluding travel and living expenses)  
**INFORMATION:** Dr. Kjell Christopherson or Dr. Jan Noel, International Development Cooperation, Washington  
State University, Pullman, WA 99164-6226, PH: 509 335 2980, FX: 509 335 2982

--- COURSE NUMBER: EM55 ---

**TITLE:** Agricultural and Natural Resources Inventory and Planning

**PROVIDER:** University of Wyoming

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Laramie, Wyoming, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Professional livestock, wildlife, natural resources and land use managers and specialists with planning and management responsibilities on rangelands.

**OBJECTIVE:** Participants will understand the objectives, necessary components, procedures and potential uses of planning, monitoring and inventory programs.

**OVERVIEW:** Techniques for determining and achieving rational goals, objectives and methods necessary to most efficiently inventory and access resources available. Develop land use plans for local or regional areas/interests of each participant.

**FEES:** \$3,600 (excluding travel)

**INFORMATION:** Ms. Julie Keown, Program Coordinator, International Programs, 215 Merica Hall, PO Box 3707, Laramie, WY 82071-3707, PH: 307 766 2872 or 766 2618, FX: 307 766 2871

--- COURSE NUMBER: EM56 ---

**TITLE:** Development and Management of Natural Resources for Tourism and Education

**PROVIDER:** University of Wyoming

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Laramie, Wyoming, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Professional land use managers, administrators and community development specialists with interests in rural communities and natural resources.

**OBJECTIVE:** To develop an understanding of the economic potential of tourism for revitalizing rural communities in developed and developing countries.

**OVERVIEW:** Through lectures, field trips, case studies and laboratory exercises, course will focus on capitalizing natural and agricultural resources such as wildlife, water, space, aesthetics and livestock in rural communities to provide employment and industry.

**FEES:** \$3,600 (excluding travel)

**INFORMATION:** Ms. Julie Keown, Program Coordinator, International Programs, 215 Merica Hall, PO Box 3707, Laramie, WY 82071-3707, PH: 307 766 2872 or 766 2618, FX: 307 766 2871

--- COURSE NUMBER: EM57 ---

**TITLE:** Ecology and Economics in the Third World

**PROVIDER:** Tropical Science Center

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 3 weeks, on demand

**LOCATION:** San Jose, Costa Rica and field sites **LANGUAGE:** Spanish

**PARTICIPANTS:** Individuals in natural resources planning and decision making; graduate students in natural resources; and in general professionals seeking a better understanding of the relationships between the environment and the economy in an underdeveloped country.

**OBJECTIVE:** To provide a comprehensive view of the environmental problems faced by a developing country (Costa Rica), and the economic implications, as well as to analyze how economic problems induce and perpetuate the process of environmental degradation.

**OVERVIEW:** Current cases of resource use and misuse will be examined, as well as those from the colonial period. Course will focus on the influence of foreign debt. Specific examples of resource use and economic policy will be examined on a local basis.

**FEES:** \$1000 (excluding travel)

**INFORMATION:** Raul Solorzano, Executive Director, Tropical Science Center, Apartado 8-3870-1000, San Jose, Costa Rica, PH: 506 533267/252649, FX: 506 534963

--- COURSE NUMBER: EM58 ---

**TITLE:** Resource Management Training

**PROVIDER:** ANUTECH Pty Ltd.

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 1 week, on demand

**LOCATION:** Canberra, Australia **LANGUAGE:** English

**PARTICIPANTS:** Foresters, park managers, and other resource management professionals.

**OBJECTIVE:** To provide participants with an understanding of the processes and practices of management planning for parks, forest areas and other open-space areas.

**OVERVIEW:** Course covers: principles of planning for management, objective setting, strategic change and priorities, people management--recreation opportunity spectrum, limits of acceptable change.

**FEES:** Contact provider

**INFORMATION:** Dr. Ken Shepard, Manager, Forestry Division, ANUTECH Pty Ltd., GPO Box 4, Canberra ACT 2601, Australia, PH: 61 6 249 0617 (day), 61 6 281 5915 (evenings), FX: 61 6 249 5875 or 257 1433, TLX: AA62670 NATUNI

--- COURSE NUMBER: EM59 ---

**TITLE:** Environmental Conflict Resolution

**PROVIDER:** ANUTECH Pty Ltd.

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 1 week, on demand

**LOCATION:** Canberra, Australia **LANGUAGE:** English

**PARTICIPANTS:** Professional resource managers.

**OBJECTIVE:** To give participants and understanding of environmental conflict analysis and a knowledge of a conflict resolution approaches.

**OVERVIEW:** Course covers: conflict analysis; bargaining, trade-offs, and decision-making; and participatory planning.

**FEES:** Contact provider

**INFORMATION:** Dr. Ken Shepard, Manager, Forestry Division, ANUTECH Pty Ltd., GPO Box 4, Canberra ACT 2601, Australia, PH: 61 6 249 0617 (day), 61 6 281 5915 (evenings), FX: 61 6 249 5875 or 257 1433, TLX: AA62670 NATUNI

--- COURSE NUMBER: EM60 ---

**TITLE:** Environmental Policy Analysis and Environmental and Resource Economics

**PROVIDER:** ANUTECH Pty Ltd.

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 2 weeks

**LOCATION:** Canberra, Australia **LANGUAGE:** English

**PARTICIPANTS:** Senior managers with a special interest in environmental issues.

**OBJECTIVE:** To provide training for managers in the basic theory of environmental issues.

**OVERVIEW:** Course covers: economics of the environment, property rights, externalities, market failure and environmental problems; environmental policy analysis, green house effect and global policy issues, and natural resource development policy issues.

**FEES:** Contact provider

**INFORMATION:** Dr. Ken Shepard, Manager, Forestry Division, ANUTECH Pty Ltd., GPO Box 4, Canberra ACT 2601, Australia, PH: 61 6 249 0617 (day), 61 6 281 5915 (evenings), FX: 61 6 249 5875 or 257 1433, TLX: AA62670 NATUNI

## **NATURAL FOREST MANAGEMENT**

--- COURSE NUMBER: FM01 ---

**TITLE:** Silviculture Institute

**PROVIDER:** Oregon State University

**DATES:** 00/00/92 - 00/00/92 **DURATION:** 12 weeks

**LOCATION:** Corvallis, Oregon, USA **LANGUAGE:** English

**PARTICIPANTS:** Silviculturalists who have 5 years experience in silviculture and a B.S. degree in forestry or natural resources.

**OBJECTIVE:** To provide continuing education in silviculture; to study cost-effective forest management based on fundamental biology, statistics and economics.

**OVERVIEW:** Course is intended to teach silviculturalists methods of economic analysis, optimization, and scheduling methods for timber management, problem analysis and decision-making.

**FEES:** \$1,600 per module, \$9,600 for all modules.

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686 OSU CID COVS

--- COURSE NUMBER: FM02 ---

**TITLE:** Forest Engineering Institute

**PROVIDER:** Oregon State University

**DATES:** 01/07/92 - 01/13/92 **DURATION:** 1 week

**LOCATION:** Corvallis, Oregon, USA **LANGUAGE:** English

**PARTICIPANTS:** For anyone involved with forestry operations, including forestry and engineering professionals and technicians.

**OBJECTIVE:** To provide students with a valuable working knowledge of how to plan and evaluate timber harvesting operations.

**OVERVIEW:** An intensive program designed to provided people with up-to-date information on environmentally sound, economical timber harvesting, forest roads and transportation planning, and watershed management.

**FEES:** \$2,800 (estimated)

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686 OSU CID COVS

--- COURSE NUMBER: FM03 ---

**TITLE:** Seminar on Project Management of Tropical Forests in Latin America

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 02/16/92 - 03/06/92 **DURATION:** 3 weeks

**LOCATION:** Quito, Ecuador **LANGUAGE:** Spanish

**PARTICIPANTS:** For senior level professionals in the public or industrial sector responsible for managing agricultural and rural development projects in maintaining tropical forests.

**OVERVIEW:** Seminar will focus on the experiences of the countries of the Amazon River Basin and provide a forum for discussion of policy issues in tropical forest management.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: FM04 ---

**TITLE:** Forest Appraisal - Part I

**PROVIDER:** Duke University

**DATES:** 02/24/92 - 02/28/92 **DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA **LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester-long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Principles of real estate appraisal applied to valuation problems in forestry. Appraisal theory, accounting and tax concepts, and financial analysis techniques applied to forest land management.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: FM05 ---

**TITLE:** Silviculture and the Management of Natural Tropical Forests  
**PROVIDER:** Centro Agronomico Tropical de Investigacion y Ensenanza (CATIE)  
**DATES:** 02/27/92 - 04/11/92 **DURATION:** 6 weeks  
**LOCATION:** Turrialba, Costa Rica **LANGUAGE:** Spanish  
**PARTICIPANTS:** Forest technicians and professionals, biologists, rural extensionists.  
**OBJECTIVE:** 1) To update existing knowledge and strengthen practical skills on ecological, silvicultural and managerial aspects for lowland rain forests, 2) develop positive attitudes towards the management of rainforests as a viable means of sustainable development.  
**OVERVIEW:** Three main topics are: ecological background needed for silviculture; design and application of silvicultural treatments; and planning and management tools for natural forests.  
**FEES:** \$2,000 (excluding travel)  
**INFORMATION:** Subdireccion General de Ensenanza y Capacitacion, CATIE, 7170 Turrialba, Costa Rica, PH: 506 56 64 31, FAX: 506 561533, TLX: 8005 CATIE CR

--- COURSE NUMBER: FM06 ---

**TITLE:** Short Course on Forest Tree Improvement  
**PROVIDER:** North Carolina State University  
**DATES:** 03/16/92 - 03/27/92 **DURATION:** 10 days  
**LOCATION:** Raleigh, North Carolina, USA **LANGUAGE:** Spanish/English  
**OVERVIEW:** The course will consist of lectures and problem solving, but also include field trips to see progressive industrial tree improvement programs.  
**FEES:** \$1,500 (excluding travel and per diem)  
**INFORMATION:** Dr. Bruce Winston, Division for Lifelong Education, Box 7401, North Carolina State University, Raleigh, NC 27695-7401, PH: 919 515 2883, FAX: 919 515 7615, TLX: 575157

--- COURSE NUMBER: FM07 ---

**TITLE:** Silviculture for Non-Silviculturists

**PROVIDER:** Utah State University

**DATES:** 03/23/92 - 04/03/92 **DURATION:** 2 weeks

**LOCATION:** Logan, Utah, USA **LANGUAGE:** English

**PARTICIPANTS:** Natural resource managers dealing with all aspects of forested ecosystem management.

**OBJECTIVE:** To improve the understanding and use of silviculture as a tool for managing multiple resources.

**OVERVIEW:** Course covers silvicultural applications to managing forests for wood products, recreation, wildlife, livestock, and watersheds. Includes coverage of growth and yield models, forest economics and managing for social values.

**FEES:** \$1,950 (excluding travel)

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: FM08 ---

**TITLE:** Forest Appraisal - Part II

**PROVIDER:** Duke University

**DATES:** 03/30/92 - 04/03/92 **DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA **LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Principles of real estate appraisal applied to valuation problems in forestry. Appraisal theory, accounting and tax concepts, financial analysis techniques applied to forest land management.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: FM09 ---

**TITLE:** Growth and Return for Plantation and Natural Forests

**PROVIDER:** Instituto Tecnológico, Costa Rica

**DATES:** 06/00/92 - 12/00/92 **DURATION:** 16 weeks, on demand

**LOCATION:** Cartago, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** For silviculturalists in forest plantations and natural forests.

**OBJECTIVE:** To provide participants with ability to estimate the individual and monthly production rates for both plantations and natural forests.

**OVERVIEW:** Participants will study techniques for estimating the production level of individual and groups of trees, modeling and site assessment methodology.

**FEES:** Contact provider

**INFORMATION:** William Cordero, Departamento Ingeniería Forestal, Instituto Tecnológico de Costa Rica, Apartado 159-7050, Cartago, Costa Rica, PH: 506 515333, FX: 506 515348, TLX: 8013 ITCR CR

--- COURSE NUMBER: FM10 ---

**TITLE:** Certificate Course in Community Forestry

**PROVIDER:** Regional Community Forestry Training Center (RECOFTC)

**DATES:** 06/08/92 - 12/04/92 **DURATION:** 6 months

**LOCATION:** Bangkok, Thailand **LANGUAGE:** English

**PARTICIPANTS:** Mid-level professionals involved in the planning and implementation of community forestry programs.

**OBJECTIVE:** This course will create a better understanding of how forestry can promote rural development. It explains the role of forestry in daily community life and its complex and sensitive interactions with other sectors of the society.

**OVERVIEW:** Course will include theory, practice, field study and visits. Trainee will be required to produce various reports, including a paper on a selected community forestry activity in his/her home country and a community forestry action plan.

**FEES:** US \$9,200 (excluding airfare)

**INFORMATION:** Dr. Somsak Sukwong, Director of RECOFTC, Kasetsart University, Bangkok 10900, Thailand, PH: 66 2 5790108, FAX: 66 2 5614880, TLX: 21957 RECOFTC TH

--- COURSE NUMBER: FM11 ---

**TITLE:** Social Research Design and Evaluation Studies in Community Forestry

**PROVIDER:** University of the Philippines

**DATES:** 06/17/92 - 08/11/92 **DURATION:** 8 weeks

**LOCATION:** Laguna, The Philippines **LANGUAGE:** English

**PARTICIPANTS:** Individuals engaged in forestry and allied fields in any management level. Administrators, project managers, forest officers, extension workers, trainers, policy makers, rangers, technicians, etc.

**OBJECTIVE:** To enhance and develop the capabilities (knowledge, skills and attitudes) of individuals engaged in forestry-related work, thus enabling them to perform their jobs better.

**OVERVIEW:** Preparation of social research and evaluation studies on integrating forestry with rural development; major steps in undertaking social research work from formulating a research problem to analysis and preparation of research report proposal.

**FEES:** Contact provider

**INFORMATION:** Director, Institute of Forest Conservation, PO Box 434, U.P. Los Banos, College, Laguna 4031, Philippines, PH: 94 2268, FAX: 94 3206, TLX: 4909 RCPI LBS PI

--- COURSE NUMBER: FM12 ---

**TITLE:** Raising the Value of Non-Timber Forest Products and Services for Local Communities

**PROVIDER:** University for Peace

**DATES:** 08/03/92 - 08/22/92 **DURATION:** 3 weeks

**LOCATION:** Escazu, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** Persons involved in development, university and technical school professors, conservationists, resource planners, and specialists in related fields.

**FEES:** Contact provider

**INFORMATION:** Course Director, (Course Name), Universidad para la Paz, Apartado 199, 1250 Escazu, Costa Rica, PH: 506 491072, FAX: 506 491929

--- COURSE NUMBER: FM13 ---

**TITLE:** Social Forestry Officers Development Course

**PROVIDER:** University of the Philippines

**DATES:** 08/12/92 - 09/22/92 **DURATION:** 6 weeks

**LOCATION:** Laguna, The Philippines **LANGUAGE:** English

**PARTICIPANTS:** Individuals engaged in forestry and allied fields in any management level. Administrators, project managers, forest officers, extension workers, trainers, policy makers, rangers, technicians, etc.

**OBJECTIVE:** To enhance and develop the capabilities (knowledge, skills and attitudes) of individuals engaged in forestry-related work, thus enabling them to perform their jobs better.

**OVERVIEW:** Concepts of social forestry, technologies and livelihood projects related to social forestry; and development of management capabilities of development agents in integrating forestry with socio-economic development schemes of rural communities.

**FEES:** Contact provider

**INFORMATION:** Director, Institute of Forest Conservation, PO Box 434, U.P. Los Banos, College, Laguna 4031, Philippines, PH: 94 2268, FAX: 94 3206, TLX: 4909 RCPI LBS PI

--- COURSE NUMBER: FM14 ---

**TITLE:** Design of Community Forestry

**PROVIDER:** International Agricultural Center

**DATES:** 08/30/92 - 12/12/92 **DURATION:** 3 months

**LOCATION:** Wageningen, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Program officers, who are engaged in policy formulation or in the design, management and evaluation of rural development programs, directed at the strengthening of community forestry activities at the regional or national level.

**OBJECTIVE:** To strengthen national capacities to design, implement and evaluate community forestry activities within the framework of rural development.

**OVERVIEW:** The concept of community forestry is placed in the broader context of rural development. The course has three major areas of concern: project planning, community organization and integration of forestry activities in sustainable landuse.

**FEES:** 4,800 Dutch guilders (excluding travel, room and board)

**INFORMATION:** International Agricultural Center (IAC), PO Box 88, 6700 AB Wageningen, Lawickse Allee 11, The Netherlands, PH: 31 83 790111, FAX: 31 83 718552

--- COURSE NUMBER: FM15 ---

**TITLE:** Forestry Planning and Management Course

**PROVIDER:** ANUTECH Pty Ltd.

**DATES:** 09/14/92 - 12/04/92 **DURATION:** 11 weeks

**LOCATION:** Canberra and Gympie, Australia **LANGUAGE:** English

**PARTICIPANTS:** Persons who work or plan to work in a forestry administration agency, related forest industry, rural development organization, or are from areas within national economic planning agencies concerned with forestry.

**OBJECTIVE:** To update the skills of forest sector managers in the field of integrated forest management as it relates to rural development and national economic planning. To increase participants' knowledge in the use of computers in planning and management.

**OVERVIEW:** Course focuses on the identification, design, appraisal, implementation and management of forestry projects within the broad framework of development. Particular focus is on the planning and management of large scale plantation projects.

**FEES:** A\$19,200 (excluding travel to and from course site)

**INFORMATION:** Dr. Ken Shepard, Manager, Forestry Division, ANUTECH Pty Ltd., GPO Box 4, Canberra ACT 2601, Australia, PH: 61 6 249 0617 (day), 61 6 281 5915 (evenings), FX: 61 6 249 5875 or 257 1433, TLX: AA62670 NATUNI

--- COURSE NUMBER: FM16 ---

**TITLE:** Forestry Extension Officers Development Course

**PROVIDER:** University of the Philippines

**DATES:** 09/23/92 - 11/03/92 **DURATION:** 6 weeks

**LOCATION:** Laguna, The Philippines **LANGUAGE:** English

**PARTICIPANTS:** Individuals engaged in forestry and allied fields in any management level. Administrators, project managers, forest officers, extension workers, trainers, policy makers, rangers, technicians, etc.

**OBJECTIVE:** To enhance and develop the capabilities (knowledge, skills and attitudes) of individuals engaged in forestry-related work, thus enabling them to perform their jobs better.

**OVERVIEW:** Analysis of economic and social issues in forestry; application of the extension approaches and strategies to forestry projects; mobilization and organization works; comparative extension programs and monitoring and evaluation of extension efforts.

**FEES:** Contact provider

**INFORMATION:** Director, Institute of Forest Conservation, PO Box 434, U.P. Los Banos, College, Laguna 4031, Philippines, PH: 94 2268, FAX: 94 3206, TLX: 4909 RCPI LBS PI

--- COURSE NUMBER: FM17 ---

**TITLE:** Applied Forest Inventory

**PROVIDER:** Duke University

**DATES:** 10/00/92 - 10/00/92 **DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA **LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** A mix of forest inventory methods and applications. Emphasis on the correct choice and application of available inventory methods; how to create, maintain or update timberland inventories.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: FM18 ---

**TITLE:** 9th International Seminar on Forest Administration

**PROVIDER:** University of Michigan

**DATES:** 10/00/92 - 10/00/92 **DURATION:** 25 days

**LOCATION:** Ann Arbor, Michigan, USA and study tour **LANGUAGE:** English

**PARTICIPANTS:** Senior natural resource management professionals from the developing world who desire to improve their managerial capabilities and administrative skills.

**OBJECTIVE:** To present a broad spectrum of forest management techniques and institutional arrangements so that participants may selectively gather ideas which can assist in the management of their forest lands.

**OVERVIEW:** Seminar focuses on strategies and methods to develop, manage and conserve forest resources for sustained delivery of goods and service to meet human needs. Themes include: policy development resource administration, biodiversity and conservation.

**FEES:** Contact provider

**INFORMATION:** School of Natural Resources, University of Michigan, 430 East University, Ann Arbor, MI 48109-1115, USA, PH: 313 747 4337 FAX: 313 936 2195

--- COURSE NUMBER: FM19 ---

**TITLE:** Forestry for Community Development

**PROVIDER:** University of the Philippines

**DATES:** 11/04/92 - 12/15/92 **DURATION:** 6 weeks

**LOCATION:** Laguna, The Philippines **LANGUAGE:** English

**PARTICIPANTS:** Individuals engaged in forestry and allied fields in any management level. Administrators, project managers, forest officers, extension workers, trainers, policy makers, rangers, technicians, etc.

**OBJECTIVE:** To enhance and develop the capabilities (knowledge, skills and attitudes) of individuals engaged in forestry-related work, thus enabling them to perform their jobs better.

**OVERVIEW:** Basic principles, concepts, practices, and lessons in community based forest development; supportive technologies for community-based forest development; preparation of a community-based forest development program.

**FEES:** Contact provider

**INFORMATION:** Director, Institute of Forest Conservation, PO Box 434, U.P. Los Banos, College, Laguna 4031, Philippines, PH: 94 2268, FAX: 94 3206, TLX: 4909 RCPI LBS PI

--- COURSE NUMBER: FM20 ---

**TITLE:** Management of Forest Diseases

**PROVIDER:** Instituto Tecnológico, Costa Rica

**DATES:** 06/00/93 - 12/00/93 **DURATION:** 16 weeks, on demand

**LOCATION:** Cartago, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** Forest technicians responsible for reforestation projects.

**OBJECTIVE:** To provide participants with the ability to identify, prevent and control the principle diseases infecting tropical forests.

**OVERVIEW:** Course covers principles of forest pathology and entomology, pathogenic relationships, population behaviors and methods of prevention and treatment.

**FEES:** Contact provider

**INFORMATION:** William Cordero, Departamento Ingeniería Forestal, Instituto Tecnológico de Costa Rica, Apartado 159-7050, Cartago, Costa Rica, PH: 506 515333, FX: 506 515348, TLX: 8013 ITCR CR

--- COURSE NUMBER: FM21 ---

**TITLE:** Forestry Management for Sustainable Development

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 12/13/93 - 12/18/93 **DURATION:** 7 days

**LOCATION:** Dehra Dun, India **LANGUAGE:** English

**PARTICIPANTS:** Directors of forestry departments, private sector organizations, NGOs, and "think tanks".

**OVERVIEW:** Seminar will examine ways to 1) achieve sustainability of indigenous forests, and 2) permit the production outside of forests of products that are essential to the population and the economy.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: FM22 ---

**TITLE:** Utilization and Forestry in Tropical Forests

**PROVIDER:** Instituto Tecnológico, Costa Rica

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 3 weeks

**LOCATION:** Cartago, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** For technicians and forest professionals with responsibility for projects in managing natural forests.

**OBJECTIVE:** To develop participants' capabilities in forest management techniques, forest improvement, and principles of sustainable use.

**OVERVIEW:** Through participation and practice, participants will cover a variety of forest management issues.

**FEES:** Contact provider

**INFORMATION:** William Cordero, Departamento Ingeniería Forestal, Instituto Tecnológico de Costa Rica, Apartado 159-7050, Cartago, Costa Rica, PH: 506 515333, FX: 506 515348, TLX: 8013 ITCR CR

**TITLE:** Preparation and Evaluation of Forestry Projects

**PROVIDER:** Instituto Tecnológico, Costa Rica

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 16 weeks, on demand

**LOCATION:** Cartago, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** Professionals responsible for the planning and management of forest resources.

**OBJECTIVE:** To develop the capacity to prepare a forestry development project and evaluate forestry projects currently being implemented.

**OVERVIEW:** Analysis of the key factors in planning, evaluation and implementation of projects in the field of renewable natural resources, particularly forestry sector projects.

**FEES:** Contact provider

**INFORMATION:** William Cordero, Departamento Ingeniería Forestal, Instituto Tecnológico de Costa Rica, Apartado 159-7050, Cartago, Costa Rica, PH: 506 515333, FX: 506 515348, TLX: 8013 ITCR CR

## **GLOBAL CLIMATE CHANGE**

**TITLE:** Global Environmental Change

**PROVIDER:** Bermuda Biological Station for Research

**DATES:** 07/28/92 - 08/22/92

**DURATION:** 4 weeks

**LOCATION:** Ferry Reach, Bermuda

**LANGUAGE:** English

**PARTICIPANTS:** Graduate student level.

**INFORMATION:** Dr. Susan B. Cook, Education Director, Bermuda Biological Station for Research, Inc., Ferry Reach GE 01, Bermuda, PH: 809 297 1880, FAX: 809 297 8143

# ENVIRONMENTAL IMPACT ASSESSMENT

Environmental Impact Assessment

--- COURSE NUMBER: IA01 ---

**TITLE:** Environmental Assessment Procedures and Methods

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 00/00/92 - 00/00/92 00/00/93 - 00/00/93 00/00/93 - 00/00/93 **DURATION:** 10 days

**LOCATION:** Indonesia or Malaysia (1992 and 1993) Brazil (1993) **LANGUAGE:** English

**PARTICIPANTS:** Senior managers, technicians and trainers. Women are encouraged to participate.

**OVERVIEW:** Seminar will cover procedures and methods used in environmental assessment of development projects. Participants will develop case studies to identify possibilities and constraints with available environmental and social impact assessment methods.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: IA02 ---

**TITLE:** Environmental Impact Assessment and Project Appraisal

**PROVIDER:** University of Bradford

**DATES:** 01/27/92 - 02/21/92 **DURATION:** 4 weeks

**LOCATION:** Bradford, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** Intended for persons involved with development projects and policy formulation who wish to ensure that environmental considerations are evaluated in a systematic manner and incorporated into the decision-making process.

**OBJECTIVE:** To provide participants with a broad understanding of environmental issues in developing countries and to develop practical knowledge of the procedures for assessing environmental impact of development programs, policies and projects.

**OVERVIEW:** Through lectures, workshops and hands-on experiences, the course will focus on development and environmental issues, environmental impact assessment and other key issues.

**FEES:** L. 2,218 (excluding travel and accommodation)

**INFORMATION:** Course Director, Environmental Impact Assessment, Development & Project Planning Centre, University of Bradford, Bradford, England BD7 1DP, PH: 44 274 733466, FAX: 44 274 726918, TLX: 51309 UNIBFD G

--- COURSE NUMBER: IA03 ---

**TITLE:** Environmental Impact Assessment Workshop

**PROVIDER:** Center of Resource Management and Environmental Studies (CERMES)

**DATES:** 04/00/92 - 04/00/92 **DURATION:** 5 days, annually

**LOCATION:** Barbados, West Indies **LANGUAGE:** English

**PARTICIPANTS:** Registered students and invited participants, including technocrats and decision-makers from both the public and private sectors.

**OBJECTIVE:** To develop a working understanding of and competence in environmental impact assessment.

**OVERVIEW:** Course concentrates on principles of environmental impact assessment through case studies specific to the Caribbean region.

**FEES:** Contact provider

**INFORMATION:** Dr. Euna A. Moore, Director, CERMES, University of the West Indies, Cave Hill Campus, PO Box 64, Bridgetown, Barbados, PH: 809 425 1310 ext. 297, FAX: 809 424 4204, TLX: UNIVADOS WB 2257

--- COURSE NUMBER: IA04 ---

**TITLE:** Environmental Impact Assessment

**PROVIDER:** Centre de Formation Internationale a la Gestion des Ressources en Eau (CEFIGRE)

**DATES:** 06/01/92 - 06/19/92 **DURATION:** 3 weeks

**LOCATION:** Bangkok, Thailand **LANGUAGE:** English

**PARTICIPANTS:** Engineers, planners, scientists, consultants, project developers, sociologists, etc. involved with medium and large scale project planning, development and implementation.

**OBJECTIVE:** To provide participants with a comprehensive understanding of EIA as a decision-making tool in all development projects.

**OVERVIEW:** Course will cover objectives and scope of EIA; EIA methods; mitigation methods, monitoring and auditing; public participation in EIA; institutional and economic aspects; and a review of case studies.

**FEES:** \$3,600

**INFORMATION:** International Office for Water, CEFIGRE, BP 113 Sophia Antipolis, 06561 VALBONNE CEDEX 1 - France, PH: 33 92 945800, FAX: 33 93 654402, TLX: 461311

--- COURSE NUMBER: IA05 ---

**TITLE:** 13th International Seminar on Environmental Assessment and Management

**PROVIDER:** University of Aberdeen

**DATES:** 06/28/92 - 07/11/92 **DURATION:** 2 weeks

**LOCATION:** Aberdeen, Scotland **LANGUAGE:** English

**PARTICIPANTS:** Government administrators, planners, academics, industrialists, scientists and all those who feel a better understanding of EIA and environmental management would benefit their work.

**OBJECTIVE:** To present a comprehensive introduction to the aims and scope of environmental assessment (EA) in the context of environmental management strategies, emphasizing methods and techniques which are used to assess the inputs of proposed development actions.

**OVERVIEW:** Course covers EA methods and procedures, EA and economic assessment, project and financial management, health component of EA, role of international agencies in EA; specific impacts, i.e. marine, agricultural, air, water, noise, etc. Field visits also.

**FEES:** L. 1,045.75 (excluding travel expenses)

**INFORMATION:** University of Aberdeen, Center for Environment Planning and Management, 23 St. Machar Drive, Old Aberdeen AB2 1RY, Scotland, United Kingdom, PH: 44 224 272480, FX: 44 224 487658, TLX: 73458 UNIABN G

--- COURSE NUMBER: IA06 ---

**TITLE:** Environmental Assessment and Management in Agricultural Development

**PROVIDER:** Wye College, University of London

**DATES:** 06/29/92 - 07/17/92 **DURATION:** 2 weeks

**LOCATION:** Ashford, Kent, UK **LANGUAGE:** English

**PARTICIPANTS:** Administrators and advisors in environmental agencies; senior professionals and consultants working on agricultural projects and in the natural resource sector; planners, economists, agriculturalists, foresters, engineers and environmentalists in NGOs.

**OBJECTIVE:** To provide participants with the skills to determine and apply appropriate environmental criteria to development options and to formulate sustainable resource management policies.

**OVERVIEW:** Course emphasizes environmental assessment and management both on the project and national policy levels. Discussion topics include: environmental economics, EIA and natural resources policy. One week optional attachment on GIS and computer use.

**FEES:** L. 2,050 (excluding travel), additional L.850 for one week GIS option.

**INFORMATION:** Ms. Mary Arnold, Short Courses Office, Department of Agricultural Economics, Wye College, Ashford, Kent TN25 5AH, United Kingdom, PH: 44 233 812401, FX: 44 233 813006/813320, TLX: 94017832 WYEC G

--- COURSE NUMBER: 1A07 ---

**TITLE:** Environmental Impact Assessment

**PROVIDER:** University of Oklahoma

**DATES:** 07/06/92 - 07/10/92 07/27/92 - 07/31/92 08/17/92 - 08/21/92 **DURATION:** 5 days

**LOCATION:** Alabama (07/06/92), Texas (07/17/92), Ohio (08/17/92), USA **LANGUAGE:** English

**OBJECTIVE:** After completing this course, students should be able to: prepare and critique environmental evaluation documents, including defining terminology and analyzing data and information.

**OVERVIEW:** Course covers the factors to be considered in evaluating the effect of proposed actions upon various aspects of the environment, especially water, air and soil media. It covers procedures for the preparation of environmental impact assessments.

**FEES:** \$735 (excluding travel and living expenses)

**INFORMATION:** Dr. Larry Canter, University of Oklahoma, Environment and Ground Water Institute, 200 Felgar St., Norman, OK 73019-0470, PH: 405 325 5202, FX: 405 325 7596

--- COURSE NUMBER: 1A08 ---

**TITLE:** 7th International Training Course on Environmental Assessment and Management

**PROVIDER:** University of Aberdeen

**DATES:** 07/19/92 - 09/12/92 **DURATION:** 7 weeks

**LOCATION:** Aberdeen, Scotland **LANGUAGE:** English

**PARTICIPANTS:** Planners, government employees, consultants and environmental engineers who wish to ensure that environmental considerations are evaluated in a systematic and scientific manner to encourage sound decision making.

**OBJECTIVE:** To provide participants with a broad understanding of the principles of environmental assessment and management and will develop a practical knowledge of its utility as a decision-making tool in the context of sustainable development.

**OVERVIEW:** Course introduces environmental assessment (EA) methods and procedures, technical assessment of impacts (i.e. air, water, waste, ecology, risks and hazards, conservation and management), EA monitoring and review and management strategies. Field trips.

**FEES:** L. 5,581.25 (excluding travel expenses)

**INFORMATION:** University of Aberdeen, Center for Environment Planning and Management, 23 St. Machar Drive, Old Aberdeen AB2 1RY, Scotland, United Kingdom, PH: 44 224 272480, FX: 44 224 487658, TLX: 73458 UNIABN G

--- COURSE NUMBER: IA09 ---

**TITLE:** Environmental Impact Assessment for Developing Countries

**PROVIDER:** University of Tennessee

**DATES:** 07/26/92 - 08/14/92 **DURATION:** 3 weeks

**LOCATION:** Knoxville, Tennessee, USA **LANGUAGE:** English

**PARTICIPANTS:** Designed for mid-level professionals in agencies with responsibilities for natural resource management, environmental protection, and/or sustainable development in developing countries.

**OBJECTIVE:** To better prepare participants to carry out their vital roles as informed and effective managers of projects, programs and policies of sustainable development.

**OVERVIEW:** The course will combine classroom instruction with extensive participant discussion, with the aim of incorporating the realities of developing country conditions into environmental planning. Dr. Frank McCormick is the Course Director.

**FEES:** \$2,250 (excluding travel and living expenses)

**INFORMATION:** Dr. Robert Orr, Office of International Agricultural Programs, University of Tennessee, 320 Morgan Hall, Knoxville, TN 37901-1071, PH: 615 974 7476, FAX: 615 974 7448, TLX: UTSU PBKST 557461

--- COURSE NUMBER: IA10 ---

**TITLE:** Environmental Impact Assessment

**PROVIDER:** University of Oklahoma

**DATES:** 08/24/92 - 08/29/92 09/14/92 - 09/18/92 **DUR:** 5 days

**LOCATION:** Alabama (08/24/92), California (09/14/92) **LANGUAGE:** English

**OBJECTIVE:** After completing this course, students should be able to: prepare and critique environmental evaluation documents, including defining terminology and analyzing data and information.

**OVERVIEW:** Course covers the factors to be considered in evaluating the effect of proposed actions upon various aspects of the environment, especially water, air and soil media. It covers procedures for the preparation of environmental impact assessments.

**FEES:** \$735 (excluding travel and living expenses)

**INFORMATION:** Dr. Larry Canter, University of Oklahoma, Environment and Ground Water Institute, 200 Felgar St., Norman, OK 73019-0470, PH: 405 325 5202, FX: 405 325 7596

--- COURSE NUMBER: IA11 ---

**TITLE:** Environmental Impact Assessment

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 00/00/94 - 00/00/94 **DURATION:** 5 days

**LOCATION:** Bogota, Columbia **LANGUAGE:** Spanish

**PARTICIPANTS:** Policy planners and environmental experts of water agencies in Latin America.

**OBJECTIVE:** To outline an improved policy framework for identifying environmental effects of water resources development projects and for formulating mitigating measures against adverse impacts of such projects.

**OVERVIEW:** Environmental impact assessment process will be a central theme. Other topics include the environmental and social concerns (i.e. resettlement, loss of wildlands) which surface in water resources development projects and the need for public participation.

**FEES:** free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: IA12 ---

**TITLE:** Economic, Social & Environmental Impact Assessment in Developing Countries

**PROVIDER:** Utah State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 4 weeks, on demand

**LOCATION:** Logan, Utah, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Civil and water resource engineers, hydrologists and related planning professionals with a B.S. degree.

**OBJECTIVE:** Upon completion, the trainee will be able to manage economic, social and environmental assessments of alternatives for water resources management at the river basin scale.

**OVERVIEW:** Theoretical underpinnings and practical procedures for projecting and assessing the economic, social and environmental impacts of structural and nonstructural alternatives for management in multi-purpose water resources development.

**FEES:** \$4,000-5,000

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

**TITLE:** Environmental Impact Assessment

**PROVIDER:** ANUTECH Pty Ltd.

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 1 week, on demand

**LOCATION:** Canberra, Australia **LANGUAGE:** English

**PARTICIPANTS:** Professional resource managers.

**OBJECTIVE:** To provide participants with a thorough knowledge of the principles and processes of environmental impact assessment.

**OVERVIEW:** Course covers: approaches to EIA systems, procedures and efficiency in formulation of the best possible projects; and scope and methods of assessment.

**FEES:** Contact provider

**INFORMATION:** Dr. Ken Shepard, Manager, Forestry Division, ANUTECH Pty Ltd., GPO Box 4, Canberra ACT 2601, Australia, PH: 61 6 249 0617 (day), 61 6 281 5915 (evenings), FX: 61 6 249 5875 or 257 1433, TLX: AA62670 NATUNI

**GEOGRAPHIC INFORMATION SYSTEMS (GIS),  
REMOTE SENSING, IMAGE PROCESSING**

--- COURSE NUMBER: MS01 ---

**TITLE:** Applied Remote Sensing

**PROVIDER:** Asian Institute of Technology (AIT)

**DATES:** 01/00/92 - 04/00/92 **DURATION:** 13 weeks, annually

**LOCATION:** Bangkok, Thailand **LANGUAGE:** English

**PARTICIPANTS:** Open to individuals with appropriate background, such as engineering, forestry, agronomy, natural sciences or regional planning. Professional experience preferred, especially persons sponsored by employer.

**OVERVIEW:** General applications of satellite imagery and aerial photography in resource and land use planning, stressing the use of microcomputers for satellite image processing.

**FEES:** \$3,100 (excluding travel and expenses)

**INFORMATION:** INRDH Program Officer, Asian Institute of Technology, GOP Box 2754, Bangkok 10501, Thailand, PH: 66 2 5160110 ext 5577, FAX: 66 2 516 2126

--- COURSE NUMBER: MS02 ---

**TITLE:** District Development Planning and Remote Sensing

**PROVIDER:** University of Nottingham

**DATES:** 01/08/92 - 04/16/92 **DURATION:** 3 months

**LOCATION:** Nottingham, England, U.K. **LANGUAGE:** English

**PARTICIPANTS:** For national or local government officials based at the district level, including development planners, physical or land use planners, general administrators for planning and local representatives of functional ministries.

**OBJECTIVE:** To provide training in the organization and methods of development planning at district level and in natural resources evaluation and environmental management using remotely-sensed data.

**OVERVIEW:** The course is specifically designed to introduce the concepts of computer-aided processing of remotely sensed data. Particular emphasis will be focused on development planning, achieving spatial integration of rural development activities.

**FEES:** L. 4,600 (excluding travel and housing)

**INFORMATION:** Institute of Planning Studies, University of Nottingham, Paton House, University Park, Nottingham NG7 2RD, United Kingdom, PH: 44 602 484848 ext. 3068/3063, FAX: 44 602 423503, TLX: 37346 UNYNOT G

For more information contact:

--- COURSE NUMBER: MS03 ---

**TITLE:** Introduction to Geographic Information Systems (GIS)

**PROVIDER:** University of Nebraska, Lincoln

**DATES:** 01/20/92 - 01/24/92 03/09/92 - 03/13/92 **DURATION:** 5 days

**LOCATION:** Lincoln, Nebraska, USA **LANGUAGE:** English

**PARTICIPANTS:** Natural resource managers, geologists, geographers, hydrologists, biologists, landscape ecologists, or others involved in land and water management who could benefit from GIS.

**OBJECTIVE:** To introduce participants to GIS development, spatial analysis, and modelling.

**OVERVIEW:** Course will be divided between lecture (40%) and hands-on experience (60%) with GIS tools. Topics include: sources of software and data, maps and projections, digitizing, modelling and applications.

**FEES:** \$500 (excluding travel, room and board)

**INFORMATION:** Center for Advanced Land Management Information Technologies, Conservation and Survey Division, 113 Nebraska Hall, University of Nebraska, Lincoln, NB 68588-0517, PH: 402 472 2565, FX: 402 472 2410

--- COURSE NUMBER: MS04 ---

**TITLE:** Fundamentals of ARC/INFO

**PROVIDER:** University of Nebraska, Lincoln

**DATES:** 01/27/92 - 01/31/92 03/16/92 - 03/20/92 **DURATION:** 5 days

**LOCATION:** Lincoln, Nebraska, USA **LANGUAGE:** English

**PARTICIPANTS:** Participants are expected to have some familiarity with GIS concepts, data structures, and GIS-based spatial modeling.

**OBJECTIVE:** This workshop is designed to provide current or potential ARC/INFO users with straightforward introduction to the software.

**OVERVIEW:** This course will consist of approximately 25% lecture and 75% hands-on laboratory experience. Topics include: digitizing using ARC/INFO, mapping using ARC/PLOT, query techniques, spatial analysis, import and export of data.

**FEES:** \$500 (excluding travel, room and board)

**INFORMATION:** Center for Advanced Land Management Information Technologies, Conservation and Survey Division, 113 Nebraska Hall, University of Nebraska, Lincoln, NB 68583-0517, PH: 402 472 2565, FX: 402 472 2410

--- COURSE NUMBER: MS05 ---

**TITLE:** Introduction to Digital Image Processing

**PROVIDER:** International Institute for Aerial Survey and Earth Science (ITC)

**DATES:** 02/00/92 - 04/00/92 **DURATION:** 3 months, annually

**LOCATION:** Enschede, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Students, research workers and engineers holding at least a Bsc., who are actively involved in the numerical analysis and application of remote sensing data.

**OVERVIEW:** The course concentrates on numerical analysis of remote sensing data. It is based on the physics of remote sensing and linear algebra and includes such topics as elements of pattern recognition, statistical methods, image processing and decision-making.

**FEES:** Contact provider

**INFORMATION:** ITC Student Registration Office, PO Box 6, 7500 AA Enschede, The Netherlands, PH: 31 53 874 444, FAX: 31 53 874 4000, TLX: 44525itcnl

--- COURSE NUMBER: MS06 ---

**TITLE:** Photogrammetry and Aerial Photo Interpretation

**PROVIDER:** Oregon State University

**DATES:** 03/23/92 - 03/27/92 **DURATION:** 1 week

**LOCATION:** Corvallis, Oregon, USA **LANGUAGE:** English

**PARTICIPANTS:** Practicing foresters and others who use aerials photographs in their professional work.

**OVERVIEW:** Course presents fundamentals of photo interpretation and photogrammetry, as well as the most advanced methods of field application.

**FEES:** To be determined

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686  
OSU CID COVS

--- COURSE NUMBER: MS07 ---

**TITLE:** Image Processing and Digital Analysis

**PROVIDER:** University of Nebraska, Lincoln

**DATES:** 03/23/92 - 03/27/92 **DURATION:** 5 days

**LOCATION:** Lincoln, Nebraska, USA **LANGUAGE:** English

**PARTICIPANTS:** Student should have some previous exposure to remote sensing, although experience with computing is not a prerequisite.

**OBJECTIVE:** This course covers the fundamentals of digital image processing as applied to data acquired by airborne or satellite remote sensing systems.

**OVERVIEW:** Course includes extensive hands-on laboratory experiences. Topics include: acquisition of remotely sensed data, image display, preprocessing, enhancement, classification, application examples.

**FEES:** \$500 (excluding travel, room and board)

**INFORMATION:** Center for Advanced Land Management Information Technologies, Conservation and Survey Division, 113 Nebraska Hall, University of Nebraska, Lincoln, NB 68588-0517, PH: 402 472 2565, FX: 402 472 2410

--- COURSE NUMBER: MS08 ---

**TITLE:** Geographic Information Systems

**PROVIDER:** Asian Institute of Technology (AIT)

**DATES:** 05/01/92 - 08/30/92 **DURATION:** 13 weeks, annually

**LOCATION:** Bangkok, Thailand **LANGUAGE:** English

**PARTICIPANTS:** Open to individuals with appropriate background, such as engineering, forestry, agronomy, natural sciences or regional planning. Professional experience preferred, especially those persons sponsored by their employers.

**OVERVIEW:** General applications of geographic information systems (GIS) in resource and land use planning, stressing use of microcomputers for spatial data processing and analysis.

**FEES:** \$3,100 (excluding travel and expenses)

**INFORMATION:** INRDM Program Officer, Asian Institute of Technology, GOP Box 2754, Bangkok 10501, Thailand, PH: 66 2 5160110 ext 5577, FAX: 66 2 516 2126

--- COURSE NUMBER: MS09 ---

**TITLE:** Image Processing of Satellite Data for Natural Resource Applications

**PROVIDER:** University of New Mexico

**DATES:** 06/01/92 - 06/26/92 **DURATION:** 4 weeks

**LOCATION:** Albuquerque, New Mexico, USA **LANGUAGE:** English

**PARTICIPANTS:** Intended for resource managers and technicians in all natural resource fields, including agriculture, geology, hydrology, soil science, forestry and land use planning. (For individuals with some prior experience with satellite remote sensing.)

**OBJECTIVE:** For participants to develop a practical working knowledge of digital image processing and analytical techniques.

**OVERVIEW:** Through hands-on exercises and demonstrations, participants will gain practical experience, learn the strengths and weaknesses of major satellite remote sensing systems, learn computer image processing techniques and understand the uses of the technology.

**FEES:** \$3,000 (excluding travel and expenses)

**INFORMATION:** Dr. Dario Rodriguez-Bejarano, Technology Application Center, The University of New Mexico, Albuquerque, NM 87131-6031, PH: 505 277 3622, FAX: 505 277 3614

--- COURSE NUMBER: MS10 ---

**TITLE:** Remote Sensing and GIS in Water Resources Engineering

**PROVIDER:** Colorado State University

**DATES:** 07/00/92 - 07/00/92 **DURATION:** 2 weeks, TBA

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** Engineers in public agencies, private firms and academic institutions with civil, environmental or agricultural engineering B.S. degree with an interest in learning about remote sensing and GIS as tools for water resources and environmental planning.

**OBJECTIVE:** To develop knowledge and skills in remote sensing/GIS and an understanding of how they can be applied to actual engineering problems.

**OVERVIEW:** Introduction to remote sensing and GIS and their specific application to water resources engineering and environmental planning and analysis. Topics include data sources and characteristics and use; computer analysis techniques and other concepts.

**FEES:** To be determined

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: MS11 ---

**TITLE:** International Geographic Information Systems Training Program

**PROVIDER:** University of Queensland

**DATES:** 07/00/92 - 09/00/92 **DURATION:** 12 weeks

**LOCATION:** Brisbane and Adelaide, Australia **LANGUAGE:** English

**PARTICIPANTS:** Professionals and para professionals in a wide variety of discipline and government agencies who use maps, data bases and geographic related data.

**OBJECTIVE:** To teach skills and practices in using geographic information systems.

**OVERVIEW:** GIS lectures and use of AUTOCAD, Map Infor, ARC/INFO (7 weeks); geographic positioning and GRS (2 weeks); project work and work experience (3 weeks).

**FEES:** \$15,000 (excluding travel)

**INFORMATION:** Dr. B. Carss, Continuing Professional Education, University of Queensland, Queensland QLD 4067, Australia, PH: 61 7 365 7100, FX: 61 7 365 7099, TLX: UNIVQLD AA40315

--- COURSE NUMBER: MS12 ---

**TITLE:** Remote Sensing in Oceanography

**PROVIDER:** Bermuda Biological Station for Research

**DATES:** 08/11/92 - 08/22/92 **DURATION:** 12 days

**LOCATION:** Ferry Reach, Bermuda **LANGUAGE:** English

**PARTICIPANTS:** Graduate student level.

**FEES:** Contact provider

**INFORMATION:** Dr. Susan B. Cook, Education Director, Bermuda Biological Station for Research, Inc., Ferry Reach GE 01, Bermuda, PH: 809 297 1880, FAX: 809 297 8143

--- COURSE NUMBER: MS13 ---

**TITLE:** GIS and Remote Sensing for Water Resources

**PROVIDER:** University of Nebraska, Lincoln

**DATES:** 09/14/92 - 09/18/92 **DURATION:** 5 days

**LOCATION:** Lincoln, Nebraska, USA **LANGUAGE:** English

**PARTICIPANTS:** Persons who have a basic understanding of remote sensing, GIS, and hydraulic principles.

**OBJECTIVE:** This course covers the fundamental theory of remote sensing as it applies to water resources application and demonstrate how GIS can be used to evaluate and manage hydrologic systems.

**OVERVIEW:** Course will include lectures, field work and extensive hands-on training with ERDAS image processing and GIS software. Topics include: spectral properties of water, classification and mapping of wetlands, monitoring changes in aquatic environments.

**FEES:** \$500 (excluding travel, room and board)

**INFORMATION:** Center for Advanced Land Management Information Technologies, Conservation and Survey Division, 113 Nebraska Hall, University of Nebraska, Lincoln, NB 68588-0517, PH: 402 472 2565, FX: 402 472 2410

--- COURSE NUMBER: MS14 ---

**TITLE:** Advanced Techniques in GIS

**PROVIDER:** University of Nebraska, Lincoln

**DATES:** 09/21/92 - 09/25/92 **DURATION:** 5 days

**LOCATION:** Lincoln, Nebraska, USA **LANGUAGE:** English

**OVERVIEW:** The course will consist of lectures (30%), group discussion (20%) and hands-on (50%) training. Topics include: files structures and data transfer, hardware and software configurations, remote sensing and integration with GIS, vector and raster data.

**FEES:** \$500 (excluding travel, room and board)

**INFORMATION:** Center for Advanced Land Management Information Technologies, Conservation and Survey Division, 113 Nebraska Hall, University of Nebraska, Lincoln, NB 68588-0517, PH: 402 472 2565, FX: 402 472 2410

--- COURSE NUMBER: MS15 ---

**TITLE:** Introduction to Geographic Information Systems

**PROVIDER:** University of Idaho

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 2 weeks, on demand

**LOCATION:** Moscow, Idaho, USA **LANGUAGE:** English

**PARTICIPANTS:** For land managers, facility planners, government officials and others interested in GIS technologies. (10-15 per session)

**OBJECTIVE:** To develop a fundamental knowledge and skills to apply GIS technologies to the participant's area of interest.

**OVERVIEW:** Through lectures and hands-on experience, students are exposed to the basic knowledge and skills required for GIS operations.

**FEES:** Negotiable

**INFORMATION:** Gleanne Wray, Associate Director, International Programs Office, 216 Morrill Hall, University of Idaho, Moscow, ID 83843, PH: 208 885 8984, FAX: 208 885 6198, TLX: 4931712 IPO UI

--- COURSE NUMBER: MS16 ---

**TITLE:** GIS Technology in Land and Resource Management

**PROVIDER:** Oregon State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Corvallis, Oregon, USA **LANGUAGE:** English

**PARTICIPANTS:** Professionals who have had minimal exposure to GIS, but anticipate using the technology or interacting with GIS specialists.

**OBJECTIVE:** To develop a basic understanding of GIS systems and their capabilities.

**OVERVIEW:** Through lecture, demonstrations and hands-on work, the principles and applications of GIS systems will be explored. A copy of the standard PC-software used in the laboratory will be provided to each student.

**FEES:** \$415.00

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686 OSU CID COVS

**TITLE:** Remote Sensing for Natural Resource Assessment

**PROVIDER:** University of Arizona

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 3 weeks, on demand

**LOCATION:** Tucson, Arizona, USA **LANGUAGE:** English

**PARTICIPANTS:** For international scientists and managers involved in the assessment of their nation's natural resources through the application of remote sensing and GIS technologies.

**OBJECTIVE:** Participants will acquire a detailed understanding of the capabilities of remote sensing to natural resource problems and assessment.

**OVERVIEW:** Course will introduce and then apply the principles of remote sensing systems to a variety of natural resource problems, such as desertification, arid lands agriculture, environmental monitoring and global change.

**FEES:** \$5,000

**INFORMATION:** Charles F. Hutchinson, University of Arizona, Arizona Remote Sensing Center, Office of Arid Lands Studies, 845 N. Park Avenue, Tucson, AZ 85719, PH: 602 621 7896, FX: 602 621 3816, TLX: 1561507 ARID UT

# PROTECTED AREA MANAGEMENT

103

--- COURSE NUMBER: PA01 ---

**TITLE:** Management and Conservation of Protected Areas in Latin America

**PROVIDER:** Ducks Unlimited de Mexico (DUMAC)

**DATES:** 03/06/92 - 06/05/92 **DURATION:** 3 months

**LOCATION:** Monterrey, Mexico **LANGUAGE:** Spanish

**PARTICIPANTS:** For professionals or others working in the management of natural resources in Latin America.

**OBJECTIVE:** To train participants in conservation and natural resources management and to search for solutions to environmental problems in the biological, economic and social context of Latin America.

**OVERVIEW:** Students will be offered not only training in the technical fields of conservation and management, but also in the socio-economic and human aspects of resource use. Topics include geography, conservation, wildlife management, coastal zones and others.

**FEES:** None

**INFORMATION:** Eduardo Carrera Gzz., Chief Biologist, RESERVA, DUMAC, Apartado Postal 776, 64000 Monterrey, N.L., Mexico, PH: 83 78 6491, FAX: 83 78 6439

--- COURSE NUMBER: PA02 ---

**TITLE:** Refuge Management Training Academy

**PROVIDER:** U.S. Fish and Wildlife Service

**DATES:** 04/00/92 - 05/00/92 **DURATION:** TBA

**LOCATION:** TBA **LANGUAGE:** English

**PARTICIPANTS:** For new and mid-level refuge managers. (GS 5/7/9)

**OBJECTIVE:** To provide background in many issues facing refuge managers.

**OVERVIEW:** Major topic areas included budget/administration, communications, compatibility, cultural resources, environmental education/interpretation, personnel management and wildlife management.

**FEES:** Contact provider

**INFORMATION:** Office of Conferences Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: PA03 ---

**TITLE:** Buffer Zone Management for Protected Areas

**PROVIDER:** University for Peace

**DATES:** 04/27/92 - 05/16/92 **DURATION:** 3 weeks

**LOCATION:** Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** Persons involved in development, university and technical school professors, conservationists, resource planners and specialists in related fields.

**FEES:** \$2,200 (excluding travel)

**INFORMATION:** Course Director, (Course Name), Universidad para la Paz, Apartado 199, 1250 Escazu, Costa Rica, PH: 506 491072, FAX: 506 491929

--- COURSE NUMBER: PA04 ---

**TITLE:** Management of Conservation Areas and Wildlife

**PROVIDER:** Indonesian Ministry of Forestry

**DATES:** 07/01/92 - 02/28/92 **DURATION:** 8 months

**LOCATION:** Bogor, Indonesia **LANGUAGE:** English

**PARTICIPANTS:** Up to ten non-Indonesians are accepted annually; should have experience in field of nature conservation or forest management.

**OBJECTIVE:** To provide in-service training to personnel employed in field of nature conservation to improve management skills in the supervision and implementation of conservation in national parks, nature reserves and other such areas.

**OVERVIEW:** About two-thirds of the course work is classroom instruction and lectures on a variety of natural resources management topics, supplemented with field exercises in methods and techniques of conservation. Emphasis will be placed on Southeast Asian context.

**FEES:** Contact provider

**INFORMATION:** Forestry Training Center (BLK) Bogor, c/o Project Officer (Name of Course), PO Box 42, Jalan Gunung Batu, Bogor, Indonesia, PH: 62 251 312841

--- COURSE NUMBER: PA05 ---

**TITLE:** Management of Wildlands and Protected Areas

**PROVIDER:** Colorado State University

**DATES:** 07/18/92 - 08/15/92 **DURATION:** 4 weeks

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** Spanish

**PARTICIPANTS:** For park and wildland managers, rangers, foresters, watershed and natural resource managers and conservation professionals interested in improving the management of parks, nature reserves, protected watersheds, wildlife refuges and other wildlands.

**OBJECTIVE:** To provide participants with experiences and information to assist them in the management of wildland areas in their home countries.

**OVERVIEW:** Emphasis on minimizing impacts on soil, vegetation, water quality and wildlife while allowing appropriate and incremental level of access to and use of wildland areas through classroom lectures and field trips.

**FEES:** \$3,040 (excluding travel and expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: PA06 ---

**TITLE:** Conservation Land Acquisition

**PROVIDER:** Duke University

**DATES:** 09/00/92 - 09/00/92 **DURATION:** 5 days, TBA

**LOCATION:** Durham, North Carolina, USA **LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester-long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Knowledge, information and identification of available resources to enable a volunteer or experienced professional to complete a land acquisition for conservation purposes.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: PA07 ---

**TITLE:** Protected Areas Resources Management

**PROVIDER:** College of African Wildlife Management - Mweka

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 3-12 mos., on demand

**LOCATION:** Moshi, Tanzania **LANGUAGE:** English

**PARTICIPANTS:** Park and/or protected area administrators and wardens.

**OVERVIEW:** Course strikes a balance between an academic background in ecology and conservation and the practical skills needed in the field. One-third of training conducted during field exercises in a variety of locations.

**FEES:** Contact provider

**INFORMATION:** The Principal, College of African Wildlife Management, PO Box 3031, Moshi, Tanzania, PH: Kibosho 18 or 24

--- COURSE NUMBER: PA08 ---

**TITLE:** National Parks Administration and Management Tour

**PROVIDER:** New Mexico State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** Flexible, on demand

**LOCATION:** Las Cruces, New Mexico, USA **LANGUAGE:** Spanish/English

**PARTICIPANTS:** Persons responsible for parks management, antiquities, wildlife or tourism.

**OBJECTIVE:** Observation of organization, management and administration of park systems with emphasis on tourism, wildlife and antiquities issues.

**OVERVIEW:** Study tour exposes participants to various management schemes of national parks, wildlife reserves and archaeological sites in the United States.

**FEES:** Negotiable

**INFORMATION:** Dr. Paul E. Huntsberger, Assistant Director, Center for International Programs, New Mexico State University, Box 30001, Dept. 3567, Las Cruces, NM 88003-3567, PH: 505 646 4735, FX: 505 646 1517, TLX: 910 9830549

# **NATURAL RESOURCE ECONOMICS**

--- COURSE NUMBER: RE01 ---

**TITLE:** Timberland Investment

**PROVIDER:** Duke University

**DATES:** 03/23/92 - 03/27/92

**DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA

**LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester-long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Investment characteristics of timberlands in terms of the objectives and constraints of institutional investors. The various factors which contribute to the risk and return of timberland investments.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: RE02 ---

**TITLE:** Economics of Water Systems Rehabilitation

**PROVIDER:** International Center for Water Resources Management

**DATES:** 06/00/92 - 06/00/92 12/00/92 - 12/00/92

**DURATION:** 2 1/2 weeks

**LOCATION:** Wilberforce, Ohio, or requested location

**LANGUAGE:** English

**PARTICIPANTS:** Natural resource/agricultural economists, engineers, agricultural resource professionals.

**OVERVIEW:** Course work will focus on the economics of water systems rehabilitation, cost-benefit analysis, systematic methods of distributing benefits and costs to water users; and computer applications and their use in water resources allocation.

**FEES:** \$3,000 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6530

Distilled from the  
World Bank

--- COURSE NUMBER: RE03 ---

**TITLE:** Advanced Recreation Economic Techniques

**PROVIDER:** U.S. Fish and Wildlife Service

**DATES:** 08/18/92 - 08/20/92 **DURATION:** 3 days

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** Designed for economists, recreation planners, wildlife biologists and other specialists responsible for participating in benefit-cost or other economic studies.

**OBJECTIVE:** To teach state-of-the-art techniques in recreation economics.

**OVERVIEW:** Course includes a presentation of recreation evaluations and demand estimating methods.

**FEES:** \$330 (excluding travel and per diem)

**INFORMATION:** Office of Conferences Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: RE04 ---

**TITLE:** Environmental Economics

**PROVIDER:** Center of Resource Management and Environmental Studies (CERMES)

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Barbados, West Indies **LANGUAGE:** English

**PARTICIPANTS:** Decision-makers who are responsible for wise resource use and development.

**OVERVIEW:** Course focuses on the concepts of, and methods for studying the economics of environmental degradation and management in tropical environments. Students will be exposed to a variety of qualitative and quantitative evaluation techniques.

**FEES:** Contact provider

**INFORMATION:** Dr. Euna A. Moore, Director, CERMES, University of the West Indies, Cave Hill Campus, PO Box 64, Bridgetown, Barbados, PH: 809 425 1310 ext. 297, FAX: 809 424 4204, TLX: UNIVADOS WB 2257

--- COURSE NUMBER: RE05 ---

**TITLE:** Economics of Resource Management

**PROVIDER:** Oregon State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Corvallis, Oregon, USA **LANGUAGE:** English

**OVERVIEW:** Training emphasis is on water and related land resource planning, including soil conservation and water quality control. Topics include principles of resource management; efficiency, equity and conservation considerations; valuation of resources, etc.

**FEES:** To be determined according to length of training

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686  
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--- COURSE NUMBER: RE06 ---

**TITLE:** Natural Resource Economics

**PROVIDER:** University of Wyoming

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Laramie, Wyoming, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Individuals working in government administration, management, public administration, economic or related fields.

**OBJECTIVE:** To train participants in 1) optimal extraction and depletion, 2) the effect of alternative market structure and 3) efficient management and allocation of resources.

**OVERVIEW:** A study of economic issues associated with renewable and nonrenewable resources. Special emphasis toward hard rock minerals, fossil fuels, fisheries and forestry resources.

**FEES:** To be determined according to length of training

**INFORMATION:** Ms. Julie Keown, Program Coordinator, International Programs, 215 Merica Hall, PO Box 3707, Laramie, WY 82071-3707, PH: 307 766 2872 or 766 2618, FX: 307 766 2871

--- COURSE NUMBER: RE07 ---

**TITLE:** Environmental Economics

**PROVIDER:** University of Wyoming

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Laramie, Wyoming, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Individuals working in administration, policy analysis, economics or related fields.

**OBJECTIVE:** Participants will gain knowledge and policy analysis skills in the following areas: resource allocation, social costs and pollution (water and air).

**OVERVIEW:** Study of economic issues involved in the development and maintenance of man's environment. Major emphasis is directed towards evaluation of current environmental issues.

**FEES:** To be determined according to length of training

**INFORMATION:** Ms. Julie Keown, Program Coordinator, International Programs, 215 Merica Hall, PO Box 3707, Laramie, WY 82071-3707, PH: 307 766 2872 or 766 2618, FAX: 307 766 2871

--- COURSE NUMBER: RE08 ---

**TITLE:** Ecotourism Economics

**PROVIDER:** Washington State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 5 days, on demand

**LOCATION:** Pullman, Washington, USA **LANGUAGE:** French/English

**PARTICIPANTS:** Private sector ecotourism project planners, A.I.D. and World Bank personnel, etc.

**OBJECTIVE:** Explore/determine the "bankability" of ecotourism projects and programs to the approaches to ecotourism planning.

**OVERVIEW:** How to apply or practice "hardcore" economic and financial analysis to the ecotourism sector.

**FEES:** \$950 (including travel, per diem and health insurance)

**INFORMATION:** Dr. Kjell Christopherson or Dr. Jan Noel, International Development Cooperation, Washington State University, Pullman, WA 99164-6226, PH: 509 335 2980, FX: 509 335 2982

**TITLE:** Forest and Natural Resource Economics

**PROVIDER:** Washington State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 4 weeks, on demand

**LOCATION:** Pullman, Washington, USA or host country **LANGUAGE:** French/English

**PARTICIPANTS:** Mid-career foresters or natural resource managers.

**OBJECTIVE:** To enhance analytic capacity of key host country personnel.

**OVERVIEW:** Provide tools, skills and approaches for participants to guide, facilitate and support informed decision-making at multiple levels regarding natural resources and management.

**FEES:** \$4,500 (excluding travel, per diem and health insurance)

**INFORMATION:** Dr. Kjell Christopherson or Dr. Jan Noel, International Development Cooperation, Washington State University, Pullman, WA 99164-6226, PH: 509 335 2980, FX: 509 335 2982

# SOLID AND HAZARDOUS WASTE MANAGEMENT

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--- COURSE NUMBER: SW01 ---

**TITLE:** Solid Waste and Environmental Management

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 01/00/92 - 03/00/92 **DURATION:** 12 weeks, annually

**LOCATION:** Loughborough, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** For engineers, scientists and environmental health officers involved in the collection and disposal of waste.

**OVERVIEW:** Course work covers technical, social and managerial issues relating to solid waste and industrial pollution.

**FEES:** Contact provider

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITEC G

--- COURSE NUMBER: SW02 ---

**TITLE:** Solid and Hazardous Waste Management

**PROVIDER:** International Center for Water Resources Management

**DATES:** 06/00/92 - 07/00/92 11/00/92 - 12/00/92 **DURATION:** 8 weeks

**LOCATION:** Wilberforce, Ohio, or requested location **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers, mid-level managers and graduate students.

**OVERVIEW:** Course work will focus on practical aspects of the generation, collection and modes of disposal of solid and hazardous wastes in developing countries.

**FEES:** \$4,500 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6553

--- COURSE NUMBER: SW03 ---

**TITLE:** Course on Urban and Industrial Waste Management in Latin America

**PROVIDER:** U.N. Economic Commission for Latin America and the Caribbean (ECLAC)

**DATES:** 09/00/92 - 00/00/92 **DURATION:** 2 weeks

**LOCATION:** Colombia **LANGUAGE:** Spanish

**PARTICIPANTS:** Government and municipal officers from Latin America and the Caribbean.

**OBJECTIVE:** To enhance the capacities of the participants to understand and manage urban and industrial wastes.

**OVERVIEW:** Focuses on four main themes -- urban and industrial development, development and the environment, methods for evaluating environmental impact, and technologies to lessen environmental impact.

**FEES:** None (Need official sponsorship)

**INFORMATION:** Alfredo Gastal, Director, Division Medio Ambiente y Asentamientos Humanos, CEPAL, Casilla 179-D, Santiago, Chile, PH: 562 206 1519/208 5051, FAX: 562 208 0252/1946, TLX: 340295

--- COURSE NUMBER: SW05 ---

**TITLE:** Solid Waste Management

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 2 weeks, on demand

**LOCATION:** At chosen in-country location **LANGUAGE:** English

**OVERVIEW:** Covers topics in solid waste management such as basic principles, data collection, storage, disposal, unplanned and rural areas and industrial wastes.

**FEES:** L. 12,000

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34312 UNITEC G

# **WILDLIFE MANAGEMENT**

--- COURSE NUMBER: WM01 ---

**TITLE:** Bird Communities of the Tropical Forest  
**PROVIDER:** Manomet Bird Observatory  
**DATES:** 01/13/92 - 05/01/92 01/11/93 - 04/30/93 **DURATION:** 16 weeks  
**LOCATION:** Massachusetts, USA & Belize **LANGUAGE:** English  
**PARTICIPANTS:** Semester program designed for persons who have completed at least two years of college.

**OVERVIEW:** Introductory seminars will be conducted at MFO on the ecology of tropical birds prior to traveling to Belize. Five weeks of intensive fieldwork will follow at the Rio Bravo Conservation Area in northern Belize.

**FEES:** \$4,000 plus \$1,200 in travel expenses.

**INFORMATION:** Manomet Bird Observatory, PO Box 1770, Manomet, MA 02345, PH: 508 224 6521

--- COURSE NUMBER: WM02 ---

**TITLE:** Wildlife Conservation and Management Training Program  
**PROVIDER:** Smithsonian Institution  
**DATES:** 02/00/92 - 04/00/92 **DURATION:** 8 weeks, annually  
**LOCATION:** Venezuela **LANGUAGE:** Spanish  
**PARTICIPANTS:** Scientific and field personnel belonging to government wildlife agencies, non-governmental organizations and universities.

**OBJECTIVE:** To provide scientific training in wildlife conservation and management to nationals of tropical countries.

**OVERVIEW:** Following a one week orientation, course work focuses through lecture and field training on a variety of conservation issues and wildlife management objectives such as captive wildlife management, habitat, demography, field analysis, ecology and behavior.

**FEES:** \$1,750 (excluding travel and per diem)

**INFORMATION:** Dr. Rudy Rudran, Conservation Department, National Zoological Park, Washington, DC 20008, PH: 202 673 4826, FAX: 703 635 4166

Prepared by: [illegible]

--- COURSE NUMBER: WM03 ---

**TITLE:** Certificate Course in Wildlife Management

**PROVIDER:** Wildlife Institute of India

**DATES:** 05/01/92 - 07/31/92 **DURATION:** 3 months, annually

**LOCATION:** Dehradun, India **LANGUAGE:** English

**PARTICIPANTS:** Range forest officers or equivalents; 4-5 seats available each year for foreign trainees.

**OVERVIEW:** Training focuses on mastery of skills and field techniques in habitat and wildlife management, mapping and capture techniques, control of disturbance and buffer zone management, ecodevelopment, visitor education and other topics.

**FEES:** Rs. 7,450 (excluding travel and per diem)

**INFORMATION:** Director, Wildlife Institute of India, New Forest, Dehradun 248 006 INDIA, PH: 28760/27724

--- COURSE NUMBER: WM04 ---

**TITLE:** Wildlife Habitat Management

**PROVIDER:** Utah State University

**DATES:** 05/04/92 - 05/15/92 **DURATION:** 2 weeks

**LOCATION:** Logan, Utah, USA **LANGUAGE:** English

**PARTICIPANTS:** Wildlife and fisheries professionals and other resource specialists with a degree in fishery or wildlife management or related fields and 5 years experience in resource management.

**OBJECTIVE:** To study habitat issues and concepts that shape national forest management at the national, regional and local levels; increase participants' knowledge and understanding of habitat concepts and management.

**OVERVIEW:** Course is designed to increase the productivity and effectiveness of biologists and botanists on forest management teams and to provide knowledge and skills needed to become leaders in integrated resource management.

**FEES:** \$2,000

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: WM05 ---

**TITLE:** Introduction to Field Biology: Landbirds  
**PROVIDER:** Manomet Bird Observatory  
**DATES:** 05/18/92 - 06/12/92 05/17/93 - 06/11/93 **DURATION:** 4 weeks  
**LOCATION:** Massachusetts, USA **LANGUAGE:** English  
**PARTICIPANTS:** Open to beginning and experienced students of biology.

**FEES:** \$1,250 (excluding travel)

**INFORMATION:** Manomet Bird Observatory, PO Box 1770, Manomet, MA 02345, PH: 508 224 6521

--- COURSE NUMBER: WM06 ---

**TITLE:** Wildlife Conservation and Management Training Program  
**PROVIDER:** Smithsonian Institution  
**DATES:** 06/00/92 - 08/00/92 09/00/92 - 11/00/92 10/00/92 - 12/00/92 **DURATION:** 8 weeks, annually  
**LOCATION:** Malaysia and USA (June), China (Sept.), Tanzania (Nov.) **LANGUAGE:** English

**PARTICIPANTS:** Scientific and field personnel belonging to government wildlife agencies, non-governmental organizations and universities.

**OBJECTIVE:** To provide scientific training in wildlife conservation and management to nationals of tropical countries.

**OVERVIEW:** Following a one week orientation, course work focuses through lecture and field training on a variety of conservation and wildlife management issues such as captive wildlife management, habitat, demography, ecology, field analysis and behavior.

**FEES:** \$1,750 (excluding travel and per diem)

**INFORMATION:** Dr. Rudy Rudran, Conservation Department, National Zoological Park, Washington, DC 20008, PH: 202 673 4826, FAX: 703 635 4166

--- COURSE NUMBER: WM07 ---

**TITLE:** Program for Wildlife Preserve Managers

**PROVIDER:** University of Idaho

**DATES:** 06/01/92 - 07/10/92 **DURATION:** 6 weeks

**LOCATION:** Moscow, Idaho, USA and field study tours **LANGUAGE:** English

**PARTICIPANTS:** Park and wildlife wardens involved in the daily management of parks, park superintendents, mid-level managers and other wildlife and park professionals.

**OBJECTIVE:** To provide the knowledge and technical skills necessary to better meet the challenges of protected areas management.

**OVERVIEW:** Participants study inventory and research methods and techniques; managing wildlife in natural areas; communicating and interpreting wildlife information and values; and work on individual projects based on home country needs. Extensive field work.

**FEES:** \$4,000 (excluding airfare and insurance)

**INFORMATION:** Gleanne Wray, Associate Director, International Programs Office, 216 Morrill Hall, University of Idaho, Moscow, ID 83843, PH: 208 885 8984, FAX: 208 885 6198, TLX: 4931712 IPO UI

--- COURSE NUMBER: WM08 ---

**TITLE:** Introduction to Field Biology: Shorebirds

**PROVIDER:** Manomet Bird Observatory

**DATES:** 07/20/92 - 09/14/92 07/19/93 - 09/13/93 **DURATION:** 4 weeks

**LOCATION:** Massachusetts, USA **LANGUAGE:** English

**PARTICIPANTS:** Open to beginning and experienced students of biology.

**FEES:** \$1,250 (excluding travel)

**INFORMATION:** Manomet Bird Observatory, PO Box 1770, Manomet, MA 02345, PH: 508 224 6521

--- COURSE NUMBER: WM09 ---

**TITLE:** Post-graduate Diploma Course in Wildlife Management

**PROVIDER:** Wildlife Institute of India

**DATES:** 08/01/92 - 04/03/93 **DURATION:** 9 months, annually

**LOCATION:** Dehradun, India **LANGUAGE:** English

**PARTICIPANTS:** Forest officers in or above the rank of Assistant/Deputy Conservator of Forests. Four seats are available each year for foreign trainees.

**OVERVIEW:** Course emphasizes biological background of wildlife species and their habitats; planning and implementation of scientific management; the human factors of reserve management, including development and implementation of ecodevelopment plans.

**FEES:** Rs. 24,000 (excluding travel and per diem)

**INFORMATION:** Director, Wildlife Institute of India, New Forest, Dehradun 248 006 INDIA, PH: 28760/27724

--- COURSE NUMBER: WM10 ---

**TITLE:** Marine Turtle Conservation and Management

**PROVIDER:** Caribbean Conservation Corps

**DATES:** 09/06/92 - 09/26/92 **DURATION:** 3 weeks

**LOCATION:** Tortugero, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** Individuals from Latin America who are involved in some aspect of marine turtle conservation, but who have limited technical or education experience in marine turtle biology.

**OBJECTIVE:** To enhance the management of marine natural resources, particularly sea turtles, throughout Latin America, the Caribbean and South Asia through the training of people responsible for managing coastal and marine resources.

**OVERVIEW:** Course will focus on Latin American Pacific turtle populations. Course covers marine turtle biology, field techniques, management options, as well as topics such as coastal zone management, protected areas design, education and ecotourism.

**FEES:** \$1,660 (excluding travel)

**INFORMATION:** CCC Training Courses, Caribbean Conservation Corporation, P.O. Box 2866, Gainesville, FL 32602, PH: 904 373 6441, FX: 904 375 2449

--- COURSE NUMBER: WM11 ---

**TITLE:** Using the Computer-based Physical Habitat Simulation System (PHABSIM)

**PROVIDER:** Utah State University

**DATES:** 09/14/92 - 09/18/92 **DURATION:** 1 week

**LOCATION:** Logan, Utah **LANGUAGE:** English

**PARTICIPANTS:** Persons responsible for processing field data through PHABSIM models; project leaders and others primarily responsible for the field measurements required for a complete stream habitat analysis; persons responsible for quality control.

**OBJECTIVE:** To acquire the necessary skills to implement a complete analysis of potential impacts associated with alterations of flows within water resources systems on the aquatic environment.

**OVERVIEW:** Course provides "hands-on" training in use of the library of computer programs in the PHABSIM system. Topics include all aspects of data entry, model calibration, simulation runs and interpretation of model results. No prior computer experience needed.

**FEES:** \$500

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: WM12 ---

**TITLE:** Migration Ecology of Fall Landbirds

**PROVIDER:** Manomet Bird Observatory

**DATES:** 09/17/92 - 12/04/92 09/16/93 - 12/03/93 **DURATION:** 16 weeks

**LOCATION:** Massachusetts, USA **LANGUAGE:** English

**PARTICIPANTS:** Semester programs are designed for persons who have completed at least two years of college.

**OVERVIEW:** Intensive daily fieldwork will be supplemented with seminars and discussions on a variety of topics. Hands-on training in methods of capturing and banding birds will be provided. Participants will be responsible for a personal research project.

**FEES:** \$4,000 (excluding travel)

**INFORMATION:** Manomet Bird Observatory, PO Box 1770, Manomet, MA 02345, PH: 508 224 6521

--- COURSE NUMBER: WM13 ---

**TITLE:** Shorebird Studies in Puerto Rico  
**PROVIDER:** Manomet Bird Observatory  
**DATES:** 09/17/92 - 12/11/92 09/16/93 - 12/10/93 **DURATION:** 17 weeks  
**LOCATION:** Massachusetts, USA & Puerto Rico **LANGUAGE:** English

**PARTICIPANTS:** Semester programs are designed for persons who have completed at least two years of college.

**OVERVIEW:** Students will spend five weeks of preparatory seminars at MBO gaining experience in shorebird identification and banding. The research team will then go to Puerto Rico in late September to study shorebird use of the Cabo Rojo flats.

**FEES:** \$4,000 plus \$750 in travel expenses.

**INFORMATION:** Manomet Bird Observatory, PO Box 1770, Manomet, MA 02345, PH: 508 224 6521

--- COURSE NUMBER: WM14 ---

**TITLE:** Marine Turtle Conservation and Management  
**PROVIDER:** Carribean Conservation Corps  
**DATES:** 09/20/92 - 10/03/92 **DURATION:** 2 weeks  
**LOCATION:** Tortugero, Costa Rica **LANGUAGE:** English

**PARTICIPANTS:** Individuals from Central and South America, Caribbean and Asia who are involved in some aspect of marine turtle conservation, but who have limited technical or education experience in marine turtle biology.

**OBJECTIVE:** To enhance the management of marine natural resources, particularly sea turtles, throughout Latin America, the Caribbean and south Asia through the training of people responsible for managing coastal and marine resources.

**OVERVIEW:** Course covers marine turtle biology, field techniques, management options, as well as topics such as coastal zone management, protected areas design and management, environmental education and ecotourism development.

**FEES:** \$1,250 (excluding travel)

**INFORMATION:** CCC Training Courses, Carribean Conservation Corporation, P.O. Box 2866, Gainesville, FL 32602, PH: 904 373 6441, FX: 904 375 2449

--- COURSE NUMBER: WM15 ---

**TITLE:** Wildlife Conservation Law Enforcement

**PROVIDER:** College of African Wildlife Management - Mweka

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 3-12 mos., on demand

**LOCATION:** Moshi, Tanzania **LANGUAGE:** English

**PARTICIPANTS:** Park guards and enforcement officers.

**OBJECTIVE:** To provide basic skills and techniques for the enforcement of wildlife protection laws.

**OVERVIEW:** Course strikes a balance between academic work in ecology, conservation and wildlife law and practical field experience. One-third of training is spent in the field.

**FEES:** Contact provider

**INFORMATION:** The Principal, College of African Wildlife Management, PO Box 3031, Moshi, Tanzania, PH: Kibosho 18 or 24

--- COURSE NUMBER: WM16 ---

**TITLE:** Wildlife Utilization

**PROVIDER:** College of African Wildlife Management - Mweka

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 3-12 mos., on demand

**LOCATION:** Moshi, Tanzania **LANGUAGE:** English

**PARTICIPANTS:** Persons responsible for the management of wildlife populations.

**OVERVIEW:** Course includes utilization management techniques, research, range management, surveying, statistics, photography, vehicle mechanics and the use of light aircraft.

**FEES:** Contact provider

**INFORMATION:** The Principal, College of African Wildlife Management, PO Box 3031, Moshi, Tanzania, PH: Kibosho 18 or 24

--- COURSE NUMBER: WM17 ---

**TITLE:** Microcomputer Applications for Teaching Population Ecology

**PROVIDER:** Washington State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Pullman, Washington, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** For teachers of ecology and population dynamics at college and university level.

**OBJECTIVE:** To learn how microcomputers can be used to illustrate important ecological principles and theories; to learn how microcomputer-based theoretical models can be used to describe real-life data and identify regulating mechanisms.

**OVERVIEW:** Course will provide college and university instructors with new approaches and methods for using microcomputers to teach ecology and population dynamics.

**FEES:** \$3,850 (excluding travel and personal expenses)

**INFORMATION:** Dr. Kjell Christopherson or Dr. Jan Noel, International Development Cooperation, Washington State University, Pullman, WA 99164-6226, PH: 509 335 2980, FX: 509 335 2982

--- COURSE NUMBER: WM18 ---

**TITLE:** Fish and Wildlife Management

**PROVIDER:** University of Wyoming

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Laramie, Wyoming, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Individuals working in park administration or management who do not have an extensive background in zoology or ecology.

**OBJECTIVE:** Students will learn basic concepts and analytical techniques for fish and wildlife management as well as observe professionals working in the field.

**OVERVIEW:** Basic instruction in wildlife habitat, ecology and management, population management and the history of wildlife conservation. Course includes practical exercises and field trips. Emphasis on current issues and theories.

**FEES:** To be determined by length of training

**INFORMATION:** Ms. Julie Keown, Program Coordinator, International Programs, 215 Merica Hall, PO Box 3707, Laramie, WY 82071-3707, PH: 307 766 2872 or 766 2618, FX: 307 766 2871

## **WATER QUALITY**

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--- COURSE NUMBER: WQ01 ---

**TITLE:** Seminar on Institutional Development for Water Quality

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 03/00/92 - 03/00/92 **DURATION:** 1 week

**LOCATION:** San Jose, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** For project administrators and managers of water quality and sewage systems.

**OBJECTIVE:** To exchange ideas and experiences to stimulate the development of clean water and sanitation systems.

**OVERVIEW:** The seminar will focus on the economic, financial and institutional aspects of planning and managing water and sanitation systems.

**FEES:** Free if nominated by borrowing government

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: WQ02 ---

**TITLE:** River Water Quality Management

**PROVIDER:** Centre de Formation Internationale a la Gestion des Ressources en Eau (CEFIGRE)

**DATES:** 03/23/92 - 04/10/92 **DURATION:** 3 weeks

**LOCATION:** Nairobi, Kenya or Harare, Zimbabwe **LANGUAGE:** English

**PARTICIPANTS:** Engineers, scientists and officers from river basin agencies, environmental management agencies and ministries of water resources from Asia, the Middle East, English-speaking Africa and Mediterranean countries.

**OVERVIEW:** Course will cover a variety of topics, including identification and classification of pollution sources, pollution prevention techniques, setting up effective water quality monitoring networks, the use of microcomputers for modeling, etc.

**FEES:** \$3,600

**INFORMATION:** International Office for Water, CEFIGRE, BP 113 Sophia Antipolis, 06561 VALBONNE CEDEX 1 - France, PH: 33 92 945800, FAX: 33 93 654402, TLX: 461311

International Office for Water

--- COURSE NUMBER: WQ03 ---

**TITLE:** Water Analysis and Quality

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 04/00/92 - 07/00/92 **DURATION:** 12 weeks, annually

**LOCATION:** Loughborough, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** For scientists involved with water analysis, laboratory management and design, pollution control and advising on water and wastewater treatment processes.

**OBJECTIVE:** To provide students with the understanding and skills to manage water quality and wastewater treatment.

**OVERVIEW:** Course work covers analysis methods, treatment processes, field testing and laboratory management and design.

**FEES:** Contact provider

**INFORMATION:** Kathy Heywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITED G

--- COURSE NUMBER: WQ04 ---

**TITLE:** Modeling of Groundwater Flow and Pollution

**PROVIDER:** Texas A&M University

**DATES:** 05/11/92 - 05/15/92 **DURATION:** 5 days

**LOCATION:** College Station, Texas, USA **LANGUAGE:** English

**PARTICIPANTS:** Civil and environmental engineers, agricultural engineers, geologists, chemical engineers, water resources planners and others involved with water resources management and quality control.

**OBJECTIVE:** To learn mechanisms that govern movement of water and contaminants, to construct well-proposed mathematical models of flow and pollution and to use numerical models for the solution of groundwater flow and pollution problems.

**OVERVIEW:** Course will cover the analysis of groundwater flow and pollution problems, conceptual and mathematical models of such problems and the use of numerical models for their solution.

**FEES:** \$785 (excluding travel and expenses)

**INFORMATION:** Wesley P. James, Department of Civil Engineering, Texas A&M University, College Station, TX 77843-3136, PH: 409 845 4550, FAX: 409 845 6156

--- COURSE NUMBER: WQ05 ---

**TITLE:** Analysis of Marine Pollution  
**PROVIDER:** Bermuda Biological Station for Research  
**DATES:** 06/01/92 - 06/20/92 **DURATION:** 2 1/2 weeks  
**LOCATION:** Ferry Reach, Bermuda **LANGUAGE:** English  
**PARTICIPANTS:** Graduate student level.

**FEES:** Contact provider

**INFORMATION:** Dr. Susan B. Cook, Education Director, Bermuda Biological Station for Research, Inc., Ferry Reach GE 01, Bermuda, PH: 809 297 1880, FAX: 809 297 8143

--- COURSE NUMBER: WQ06 ---

**TITLE:** Water Treatment Plant Design  
**PROVIDER:** Colorado State University  
**DATES:** 06/01/92 - 06/05/92 **DURATION:** 1 week  
**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English  
**PARTICIPANTS:** Persons involved in consulting, plant operation, plant design, administration, equipment sales and international students.  
**OVERVIEW:** Course will cover regulations on drinking water, coagulation, rapid mix, filtration, underdrains and organic precursor removals.  
**FEES:** \$1,000 (excluding travel and living expenses)  
**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: WQ07 ---

**TITLE:** Design of Water Quality Monitoring Networks

**PROVIDER:** Colorado State University

**DATES:** 06/08/92 - 06/12/92 **DURATION:** 1 week

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** For persons actively involved with design, operation and management of water quality surface and subsurface monitoring networks.

**OBJECTIVE:** To present detailed procedures for designing a water quality monitoring system.

**OVERVIEW:** Course will cover basic water quality monitoring issues, plus the use of statistics in analysis, sampling, measurement techniques, data reporting formats. Emphasis on analyzing and redesigning an existing monitoring network, using case studies.

**FEES:** \$895 (excluding travel and living expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: WQ08 ---

**TITLE:** The Battle Against Industrial Pollution

**PROVIDER:** Centre de Formation Internationale a la Gestion des Ressources en Eau (CEFIGRE)

**DATES:** 06/15/92 - 07/24/92 **DURATION:** 6 weeks

**LOCATION:** Limoges-La Souterraine, France **LANGUAGE:** French

**PARTICIPANTS:** Engineers and technicians in water supply and sanitation services from French-speaking Africa, Haiti and Madagascar.

**OBJECTIVE:** To make participants aware of the problems of pollution created by industrial waste and to encourage its prevention.

**OVERVIEW:** Course will cover methods of identifying pollution, legislative and regulatory issues, pollution reduction and prevention methods, self-monitoring, clean technologies and elimination of industrial waste.

**FEES:** FF. 35,000

**INFORMATION:** International Office for Water, CEFIGRE, BP 113 Sophia Antipolis, 06561 VALBONNE CEDEX 1 - France, PH: 33 92 945800, FAX: 33 93 654402, TLX: 461311

--- COURSE NUMBER: W009 ---

**TITLE:** International Course on Anaerobic Waste Water Treatment

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 06/23/92 - 08/05/92 **DURATION:** 6 weeks

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Engineers and scientists from industrialized and developing countries. Participants should have at least one year relevant experience in waste treatment.

**OBJECTIVE:** To offer state-of-the-art knowledge about anaerobic waste treatment.

**OVERVIEW:** Basic principles and developing technologies of anaerobic waste treatment will be covered. Special attention will be given to the transfer of knowledge to developing countries.

**FEES:** Dfl. 5,000 (excluding and expenses)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 38099 ihe nl

--- COURSE NUMBER: W010 ---

**TITLE:** Water Quality Management for Decision-makers

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 06/23/92 - 09/20/92 **DURATION:** 8 weeks

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Open to professionals working in water resources management. Participants should have at least a bachelor's degree or its equivalent and three years relevant experience.

**OBJECTIVE:** To offer training in the aspects of water quality management that are common ground for decision-makers and water experts and of direct importance to both.

**OVERVIEW:** The course consists of lectures, case studies, workshops and excursions. Participants learn to develop new strategies and plans for water quality management, as well as the operation and maintenance of existing systems.

**FEES:** Dfl. 5,000 (excluding travel and living expenses)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 38099 ihe nl

--- COURSE NUMBER: WQ11 ---

**TITLE:** Applied Modelling of Ground Water Pollution

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 10/00/92 - 10/00/92 **DURATION:** 1 week

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Course is intended for professionals working in the fields of hydrology and hydrogeology or civil, agricultural or environmental engineering.

**OBJECTIVE:** To provide basic knowledge about the use of various modeling techniques in groundwater management.

**OVERVIEW:** Course will focus on two main concepts -- how to deal with the effects of management measures on groundwater budgets and the management of groundwater pollution problems.

**FEES:** Dfl. 2,150 (excluding travel and living expenses)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 38099 ihe nl

--- COURSE NUMBER: WQ12 ---

**TITLE:** Applied Modelling of Ground Water Chemistry

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 11/00/92 - 11/00/92 **DURATION:** 1 week

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Designed for professionals with a background in science or engineering who wish to acquire a knowledge of hydrogeochemical groundwater modelling. Participants should have basic knowledge of chemistry and soil physics.

**OBJECTIVE:** To provide insight into applied hydrogeochemical modelling of groundwater quality and provide practical training in solving groundwater quality problems.

**OVERVIEW:** Lectures and workshops will cover a variety of fundamental theories and applications. Hands-on training in the use of models PHREEQE, PHREEQM, WATEQF and BALANCE will also be provided.

**FEES:** Dfl. 3,000 (excluding travel, food, lodging)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 38099 ihe nl

--- COURSE NUMBER: WQ13 ---

**TITLE:** Water Pollution and Pricing Policy

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 00/00/93 - 00/00/93 **DURATION:** 5 days

**LOCATION:** Manila, The Philippines **LANGUAGE:** English

**PARTICIPANTS:** Policy planners, directors, engineers

**OBJECTIVE:** To present/discuss a variety of ways and approaches to improve the management of water resources with a view to preserving water quality.

**OVERVIEW:** Seminar will cover the discharge of untreated domestic and industrial liquid wastes and the ways such discharges affect water quality, administrative controls, economics of water pollution and factors which contribute to the degradation of water quality.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: WQ14 ---

**TITLE:** Wastewater Treatment

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 2 weeks, on demand

**LOCATION:** At chosen in-country location **LANGUAGE:** English

**OVERVIEW:** Covers topics in surface water pollution, wastewater characteristics, wastewater treatment processes and options, wastewater treatment for small communities, treatment of industrial wastes, and design, operation and maintenance of treatment facilities.

**FEES:** L. 12,000

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITEC G

**TITLE:** Basic Wastewater Collection and Treatment

**PROVIDER:** Oregon State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** In United States or host country **LANGUAGE:** English

**PARTICIPANTS:** All wastewater personnel, including operators and managers.

**OBJECTIVE:** Participants will be able to identify characteristics of sewage, identify different methods of wastewater treatment, use proper disinfection techniques, conduct standard wastewater tests, identify and practice safety procedures.

**OVERVIEW:** Course covers all general principles and operations of wastewater collection and treatment, including specific units on characteristics of sewage, natural biological treatment processes, waste treatment methods, testing, sampling, recordkeeping.

**FEES:** \$5,000 (excluding travel)

**INFORMATION:** Training Coordinator, Oregon State University, Office of International Research and Development, Snell Hall 400, Corvallis, OR 97331-1641, PH: 503 737 2228, FX: 503 737 3447, TLX: 5105960686  
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# **WATER RESOURCES MANAGEMENT**

--- COURSE NUMBER: WR01 ---

**TITLE:** Andean Hydrology  
**PROVIDER:** UNESCO Regional Office for Science and Technology (ROSTLAC)  
**DATES:** 00/00/92 - 00/00/92 **DURATION:** 2 weeks, annually  
**LOCATION:** La Paz & Sucre, Bolivia **LANGUAGE:** Spanish  
**PARTICIPANTS:** Civil engineers, hydrologists, agronomists and hydroecologists of the Andean countries.  
**OBJECTIVE:** Improve participants' knowledge of hydrology and water resources of the Andean region.  
**OVERVIEW:** Each year the 80 course hours are focused on different topics of subregional interest.  
**FEES:** None  
**INFORMATION:** Sr. Carlos A. Fernandez-Jauregui, Especialista de Programa, Ciencias del Agua y Medio Ambiente, UNESCO/ORCYT, Casilla 859, Montevideo, Uruguay, PH: 598 2 496910, FAX: 598 2 414317

--- COURSE NUMBER: WR02 ---

**TITLE:** Short Course in Water Sciences  
**PROVIDER:** UNESCO Regional Office for Science and Technology (ROSTLAC)  
**DATES:** 00/00/92 - 00/00/92 **DURATION:** 1 week  
**LOCATION:** Guatemala City, Guatemala **LANGUAGE:** Spanish  
**PARTICIPANTS:** Civil engineers, hydrologists, agronomists and hydroecologists.  
**OBJECTIVE:** Improve participants' knowledge of hydrology and water resources.  
**OVERVIEW:** Each year the course focuses on a different topic of subregional interest.  
**FEES:** None  
**INFORMATION:** Sr. Carlos A. Fernandez-Jauregui, Especialista de Programa, Ciencias del Agua y Medio Ambiente, UNESCO/ORCYT, Casilla 859, Montevideo, Uruguay, PH: 598 2 496910, FAX: 598 2 414317

--- COURSE NUMBER: WR03 ---

**TITLE:** Water, Life and Development

**PROVIDER:** UNESCO Regional Office for Science and Technology (ROSTLAC)

**DATES:** 00/00/92 - 00/00/92 **DURATION:** 1 week, annually

**LOCATION:** Various countries in Central/South America **LANGUAGE:** Spanish

**PARTICIPANTS:** Extension workers and members of rural communities.

**OBJECTIVE:** Improve participants' knowledge of water resources management.

**FEES:** None

**INFORMATION:** Sr. Carlos A. Fernandez-Jauregui, Especialista de Programa, Ciencias del Agua y Medio Ambiente, UNESCO/ORCYT, Casilla 859, Montevideo, Uruguay, PH: 598 2 496910, FAX: 598 2 414317

--- COURSE NUMBER: WR04 ---

**TITLE:** Urban Water Supply

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 01/00/92 - 03/00/92 **DURATION:** 12 weeks, annually

**LOCATION:** Loughborough, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** For engineers involved in design, construction, operation and maintenance of urban water systems.

**OVERVIEW:** Course work covers water resources, water treatment and distribution.

**FEES:** Contact provider

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITEC G

--- COURSE NUMBER: WR05 ---

**TITLE:** Wastewater Reuse

**PROVIDER:** Centre de Formation Internationale a la Gestion des Ressources en Eau (CEFIGRE)

**DATES:** 01/19/92 - 01/30/92 **DURATION:** 2 weeks

**LOCATION:** Cairo, Egypt **LANGUAGE:** English

**PARTICIPANTS:** Engineers from ministries of water resources, agriculture and environmental agencies from the Middle East, Africa and Mediterranean countries.

**OBJECTIVE:** To give participants the necessary information to develop wastewater reuse programs and projects.

**OVERVIEW:** Program will cover water quality criteria; efficiency of various wastewater treatment processes; reuse of sludge; agronomic aspects; irrigation practices and technology; and other aspects of water use.

**FEES:** \$2,900

**INFORMATION:** International Office for Water, CEFIGRE, BP 113 Sophia Antipolis, 06561 VALBONNE CEDEX 1 - France, PH: 33 92 945800, FAX: 33 93 654402, TLX: 461311

--- COURSE NUMBER: WR06 ---

**TITLE:** Regional Course in Hydrology and Water Science

**PROVIDER:** UNESCO Regional Office for Science and Technology (POSTLAC)

**DATES:** 02/00/92 - 11/00/92 **DURATION:** Annual, mobile

**LOCATION:** Central America **LANGUAGE:** Spanish

**PARTICIPANTS:** Civil engineers, hydrologists, agronomists and hydroecologists

**OBJECTIVE:** Improvement of participants' knowledge of hydrology and water resources.

**OVERVIEW:** Each year the 60 course hours are spent focused on a topic of regional interest.

**FEES:** None

**INFORMATION:** Sr. Carlos A. Fernandez-Jauregui, Especialista de Programa, Ciencias del Agua y Medio Ambiente, UNESCO/ORCYT, Casilla 859, Montevideo, Uruguay, PH: 598 2 496910, FAX: 598 2 414317

--- COURSE NUMBER: WR07 ---

**TITLE:** Basic Groundwater Hydrology

**PROVIDER:** Duke University

**DATES:** 03/02/92 - 03/06/92 **DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA **LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Basic principles, concepts, and methods of groundwater hydrology. The roles of forests in groundwater hydrology and the environmental consequences of groundwater development are emphasized.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: WR08 ---

**TITLE:** Community Water Supply and Sanitation

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 04/00/92 - 07/00/92 **DURATION:** 10 weeks, annually

**LOCATION:** Loughborough, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** For non-technologists and engineers involved with low-cost water supply and sanitation.

**OBJECTIVE:** To assist those working in water supply and sanitation in developing countries to learn how to plan and implement water supply and sanitation schemes.

**OVERVIEW:** The course focuses on three key subject areas -- social sciences, technology and management for implementation -- through intensive classwork and discussion.

**FEES:** Contact provider

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITEC G

--- COURSE NUMBER: WR09 ---

**TITLE:** Applied Groundwater Flow Modelling

**PROVIDER:** Duke University

**DATES:** 04/20/92 - 04/24/92

**DURATION:** 5 days

**LOCATION:** Durham, North Carolina, USA

**LANGUAGE:** English

**PARTICIPANTS:** Professionals active in the field of natural resource management who do not have the time/opportunity for semester long training, but require adequate training in the complex and changing field of natural resource management.

**OVERVIEW:** Presentation of basic physical and mathematical concepts for effective modelling of groundwater systems. Application of the U.S. Geological survey groundwater flow model, MODFLOW.

**FEES:** Contact provider

**INFORMATION:** Intensive Course Coordinator, School of the Environment, Duke University, Durham, NC 27706, PH: 919 684 2135, FX: 919 684 8741.

--- COURSE NUMBER: WR10 ---

**TITLE:** Water Supply and Sanitation Projects and Programmes

**PROVIDER:** University of Bradford

**DATES:** 04/26/92 - 07/16/92

**DURATION:** 12 weeks

**LOCATION:** Bradford, United Kingdom

**LANGUAGE:** English

**PARTICIPANTS:** Intended to meet the needs of professionals involved in the planning, implementation and management of water supply and sanitation.

**OVERVIEW:** Key themes of the course include: the role of water, sanitation and hygiene behavior in preventative public health, water and sanitation infrastructure, the need for multidisciplinary approach, and differing needs of rural, urban and semi-rural areas.

**FEES:** Contact provider

**INFORMATION:** Course Director, Environmental Impact Assessment, Development & Project Planning Centre, University of Bradford, Bradford, England BD7 1DP, PH: 44 274 733466, FAX: 44 274 726918, TLX: 51309 UNIBFD G

--- COURSE NUMBER: WR11 ---

**TITLE:** General Hydrology with Environmental Aspects

**PROVIDER:** UNESCO Regional Office for Science and Technology (ROSTLAC)

**DATES:** 05/00/92 - 11/00/92 **DURATION:** 6 months, biannual

**LOCATION:** Various locations in Argentina **LANGUAGE:** Spanish

**PARTICIPANTS:** Civil engineers, hydrologists, agronomists and hydroecologists.

**OBJECTIVE:** Improve participants' knowledge of hydrology and water resources.

**FEES:** None

**INFORMATION:** Sr. Carlos A. Fernandez-Jauregui, Especialista de Programa, Ciencias del Agua y Medio Ambiente, UNESCO/ORCYT, Casilla 859, Montevideo, Uruguay, PH: 598 2 496910, FAX: 598 2 414317

--- COURSE NUMBER: WR12 ---

**TITLE:** Stream Hydrology and Hydraulics

**PROVIDER:** Texas A&M University

**DATES:** 05/18/92 - 05/22/92 **DURATION:** 5 days

**LOCATION:** College Station, Texas, USA **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers and planners.

**OBJECTIVE:** To provide professionals involved in drainage and flood problems with the basic theory and experience in the use of the U.S. Army Corps of Engineers HEC-1 and HEC-2 models for microcomputer.

**OVERVIEW:** Each participant will have a 286 computer with hard disk to gain experience in the use of several engineering/modeling programs.

**FEES:** \$750 (excluding travel and expenses)

**INFORMATION:** Wesley P. James, Department of Civil Engineering, Texas A&M University, College Station, TX 77843-3136, PH: 409 845 4550, FAX: 409 845 6156

--- COURSE NUMBER: WR13 ---

**TITLE:** Reservoir Sedimentation: Its Analysis and Control

**PROVIDER:** Colorado State University

**DATES:** 05/18/92 - 05/23/92 **DURATION:** 1 week

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** For persons actively involved with the design, operation and management of water storage systems.

**OBJECTIVE:** To train participants on existing methods of design of control structures, operational strategies and planning for sediment storage in reservoirs, both old and new.

**OVERVIEW:** Through lectures and case studies, course provides analysis of reservoir sedimentation and how to mitigate and control its adverse effects.

**FEES:** \$795 (excluding travel and living expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: WR14 ---

**TITLE:** Two-dimensional River Modeling

**PROVIDER:** Texas A&M University

**DATES:** 05/25/92 - 05/29/92 **DURATION:** 5 days

**LOCATION:** College Station, Texas, USA **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers and planners.

**OBJECTIVE:** To provide participants with background and experience in the use of two-dimensional finite element model for the analysis of flow problems in flood plains and bridge crossings.

**OVERVIEW:** Each participant will become familiar with the FESWMS-2DH model developed by the U.S. Geological Survey. The program incorporates interactive input programs, graphical analysis and plotting routines with efficient solution methods.

**FEES:** \$850 (excluding travel and expenses)

**INFORMATION:** Wesley P. James, Department of Civil Engineering, Texas A&M University, College Station, TX 77843-3136, PH: 409 845 4550, FAX: 409 845 6156

--- COURSE NUMBER: WR15 ---

**TITLE:** Drought Water Management

**PROVIDER:** International Center for Water Resources Management

**DATES:** 06/00/92 - 08/00/92 11/00/92 - 12/00/92 **DURATION:** 6 weeks

**LOCATION:** Wilberforce, Ohio, USA or requested location **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers, mid-level managers and graduate students.

**OVERVIEW:** Course work will focus on practical aspects of the allocation and management of scarce water resources during droughts, trigger mechanisms, etc.

**FEES:** \$4,000 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6530

--- COURSE NUMBER: WR16 ---

**TITLE:** Environmental Aspects of Canals and Streams

**PROVIDER:** International Center for Water Resources Management

**DATES:** 06/00/92 - 08/00/92 11/00/92 - 12/00/92 **DURATION:** 6 weeks

**LOCATION:** Wilberforce, Ohio, USA or requested location **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers, scientists, managers and graduate students.

**OVERVIEW:** Course work will focus on water quality, water chemistry and limnology of canals and streams; sampling analysis and pollution parameters associated with flowing streams; human health impacts; and hands-on field work.

**FEES:** \$4,000 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6530

--- COURSE NUMBER: WR17 ---

**TITLE:** Groundwater Hydrology

**PROVIDER:** International Center for Water Resources Management

**DATES:** 06/00/92 - 08/00/93 **DURATION:** 8 weeks

**LOCATION:** Wilberforce, Ohio, USA or requested location **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers, geologists, government personnel and graduate students.

**OVERVIEW:** Course work will focus on modern methods of groundwater resource investigation and evaluation; water well drilling and design; field visits; and computer applications in groundwater work.

**FEES:** \$4,500 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6530

--- COURSE NUMBER: WR18 ---

**TITLE:** Hydrometry

**PROVIDER:** International Center for Water Resources Management

**DATES:** 06/00/92 - 06/00/92 **DURATION:** 2 weeks

**LOCATION:** Wilberforce, Ohio, USA or requested location **LANGUAGE:** English

**PARTICIPANTS:** Upper division and graduate students, practicing engineers and other water professionals.

**OVERVIEW:** Emphasis is on field measurements and applications of hydrologic variables, including stream flow.

**FEES:** \$2,000 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6530

--- COURSE NUMBER: WR19 ---

**TITLE:** Limnology of Lakes and Reservoirs

**PROVIDER:** International Center for Water Resources Management

**DATES:** 06/00/92 - 08/00/92 11/00/92 - 12/00/92 **DURATION:** 8 weeks

**LOCATION:** Wilberforce, Ohio, USA or requested location **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers, biologists, agricultural specialists, fishery managers and graduate students.

**OVERVIEW:** Course work will focus on ecology of lakes and reservoirs, with a special emphasis on the tropics and developing countries, as well as practical aspects of controlling water quality deterioration and the elimination of nuisance fauna.

**FEES:** \$5,000 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6530

--- COURSE NUMBER: WR20 ---

**TITLE:** Water Resource Planning and Management

**PROVIDER:** Colorado State University

**DATES:** 06/01/92 - 06/05/92 **DURATION:** 1 week

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** For engineers, planners, investment analysts, government officials.

**OBJECTIVE:** To provide an interdisciplinary and integrated view of the field of water resources planning.

**OVERVIEW:** Technological, legal, economic, financial, political and environmental aspects of water supply management will be covered in the context of case studies.

**FEES:** \$895 (excluding travel and living expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: WR21 ---

**TITLE:** Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcomputers

**PROVIDER:** Colorado State University

**DATES:** 06/01/92 - 06/26/92 **DURATION:** 4 weeks

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** For people with background in forestry, agronomy, engineering, economics, natural resources or presently engaged in watershed management and soil conservation. Some knowledge of computer use required.

**OBJECTIVE:** To provide basic training in watershed and soil conservation survey, planning, monitoring and evaluation using microcomputer techniques.

**OVERVIEW:** Course will include survey and planning basics and strategies, computer fundamentals and applications, image processing and GIS. Case studies, analysis and practices will be emphasized.

**FEES:** \$3,600 (excluding travel and living expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: WR22 ---

**TITLE:** Low-cost Water Supply and Sanitation

**PROVIDER:** International Institute for Hydraulic and Environmental Engineering (IHE)

**DATES:** 06/23/92 - 09/20/92 **DURATION:** 8 weeks

**LOCATION:** Delft, The Netherlands **LANGUAGE:** English

**PARTICIPANTS:** Open to professionals and trainers working in the fields of low-cost water supply and sanitation. Participants should have a university degree plus relevant experience in water and sanitation projects.

**OBJECTIVE:** To present state-of-the-art knowledge about the various technologies and approaches in the field of low-cost water supply and sanitation and to provide training in how to apply this knowledge in practical situations.

**OVERVIEW:** Focus will be on the group development of a feasibility study for a water supply and sanitation program in a partly urbanized rural or semi-urban area. This group work is supplemented by lectures on relevant topics and individual exercises.

**FEES:** Dfl. 5,000 (excluding travel and living expenses)

**INFORMATION:** The Registrar of IHE, PO Box 3015, 2601 DA Delft, The Netherlands, PH: 31 15 788021/3404, FAX: 31 15 122921, TLX: 33099 ihe nl

--- COURSE NUMBER: WR23 ---

**TITLE:** Hydrology for Environmental Protection

**PROVIDER:** Colorado State University

**DATES:** 07/00/92 - 07/03/92 **DURATION:** 1 week, TBA

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** For all professionals who are working in the many facets of environmental protection to include engineers, hydrologists, environmental chemists, consultants and government regulators.

**OBJECTIVE:** Participants will develop an understanding of the interdependence of environmental quality and the hydrologic cycle.

**OVERVIEW:** Course will focus on the relationships between the hydrologic cycle and environmental quality. Topics will cover effects of the hydrologic cycle, man's attempts to control it, their resultant effects on environmental quality, particularly water quality.

**FEES:** \$795 (excluding travel and living expenses)

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: WR24 ---

**TITLE:** Watershed Management

**PROVIDER:** Indonesian Ministry of Forestry

**DATES:** 07/01/92 - 02/28/93 **DURATION:** 8 months

**LOCATION:** Bogor, Indonesia **LANGUAGE:** English

**PARTICIPANTS:** Five to ten non-Indonesians are accepted annually; should have background in working with water resources.

**OVERVIEW:** Course work covers a variety of natural resource management and project planning issues, with special focus on technology, ecology and watershed principles and techniques.

**FEES:** Contact provider

**INFORMATION:** Forestry Training Center (BLK) Bogor, c/o Project Officer (Name of Course), PO Box 42, Jalan Gunung Batu, Bogor, Indonesia, PH: 62 251 312841

--- COURSE NUMBER: WR25 ---

**TITLE:** Microcomputers for Water Supply and Sanitation

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 08/00/92 - 09/00/92 **DURATION:** 6 weeks, annually

**LOCATION:** Loughborough, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** For those involved with water supply and sanitation or urban engineering in developing countries.

**OBJECTIVE:** To provide hands-on experience in using microcomputers to work in solving the practical problems of development.

**OVERVIEW:** Course covers spreadsheets, databases, computer-aided design, simple programming, expert systems and word processing.

**FEES:** Contact provider

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITEC G

--- COURSE NUMBER: WR26 ---

**TITLE:** Upgrading and Management of Urban Water Supplies

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 08/00/92 - 10/00/92 **DURATION:** 8 weeks, annually

**LOCATION:** Loughborough, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** For senior and mid-level managers and engineers involved in urban water supply systems.

**OVERVIEW:** Course covers pollution control, treatment works, distribution, management, project preparation and appraisal.

**FEES:** Contact provider

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITEC G

--- COURSE NUMBER: WR27 ---

**TITLE:** Microcomputers in Water Resources Systems Management

**PROVIDER:** Colorado State University

**DATES:** 08/00/92 - 08/00/92 **DURATION:** 2 weeks, TBA

**LOCATION:** Fort Collins, Colorado, USA **LANGUAGE:** English

**PARTICIPANTS:** For government personnel involved in the planning and management of complex water resources and environmental engineering projects, academic faculty, researchers and private consultants.

**OBJECTIVE:** To provide a basic understanding of powerful simulation and optimization tools for water resources systems management.

**OVERVIEW:** Course focuses on the application of micro-computer-based simulation and optimization techniques to multipurpose projects providing irrigation, municipal and industrial water supplies; hydropower, flood control and other benefits.

**FEES:** To be determined

**INFORMATION:** Office of Conference Services, Colorado State University, Fort Collins, CO 80523, PH: 303 491 6222, FX: 303 491 0667

--- COURSE NUMBER: WR28 ---

**TITLE:** Watershed Resources Management and Conservation

**PROVIDER:** University of the Philippines

**DATES:** 08/12/92 - 10/06/92 **DURATION:** 8 weeks

**LOCATION:** Laguna, The Philippines **LANGUAGE:** English

**PARTICIPANTS:** Course is open to individuals engaged in forestry and allied fields in any management level -- administrators, project managers, forest officers, extension workers, teachers, trainers, researchers, rangers, technicians, policymakers, etc.

**OBJECTIVE:** To develop and enhance the capabilities of individuals engaged in forestry-related work, thus enabling them to do their jobs better.

**OVERVIEW:** Concepts, principles, procedures and strategies of watershed management and related environmental impact assessment and monitoring techniques; integrated resources technology; management and conservation planning and decision-making.

**FEES:** To be determined

**INFORMATION:** Director, Institute of Forest Conservation, PO Box 434, U.P. Los Banos, College, Laguna 4031, Philippines, PH: 94 2268, FAX: 94 3206, TLX: 4909 RCPI LBS PI

--- COURSE NUMBER: WR29 ---

**TITLE:** Soil and Water Conservation and Management

**PROVIDER:** Utah State University

**DATES:** 08/16/92 - 09/19/92 08/15/93 - 09/18/93 **DURATION:** 5 weeks

**LOCATION:** Logan, Utah, USA **LANGUAGE:** Spanish/English

**PARTICIPANTS:** Field engineers, managers and technical staff in agriculture, natural resources and supporting social science disciplines concerned with soil and soil-water conservation.

**OVERVIEW:** Emphasis on applied field practices that protect the soil from wind and water erosion, and managing and conserving natural soil moisture to improve dryland production. Participants analyze and discuss relevant environmental concerns. Study tour included.

**FEES:** \$3,450 (excluding travel)

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: WR30 ---

**TITLE:** Water Distribution System Analysis and Design

**PROVIDER:** Texas A&M University

**DATES:** 08/17/92 - 08/21/92 **DURATION:** 5 days

**LOCATION:** College Station, Texas, USA **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers and planners.

**OBJECTIVE:** To provide participants with both basic principles of pipe network analysis and in-depth training in solving pipe network problems.

**OVERVIEW:** Theory, basic principles and general guidelines will be presented in lectures, while hands-on experience in solving network problems will be provided in workshops.

**FEES:** \$700 (excluding travel and expenses)

**INFORMATION:** Wesley P. James, Department of Civil Engineering, Texas A&M University, College Station, TX 77843-3136, PH: 409 845 4550, FAX: 409 845 6156

--- COURSE NUMBER: WR31 ---

**TITLE:** Diploma in Water Resources Engineering for Developing Countries

**PROVIDER:** University of Birmingham

**DATES:** 09/00/92 - 06/00/93 **DURATION:** 9 months

**LOCATION:** Birmingham, United Kingdom **LANGUAGE:** English

**PARTICIPANTS:** Practitioners of water resource management; must hold a Bachelors degree in a relevant engineering or science discipline.

**OBJECTIVE:** Program is oriented to the types of problems that students will meet in their own countries and the resources they are likely to have at their disposal.

**OVERVIEW:** The lectures aim to develop an understanding of topics such as: water resources, water supply and sanitation, drainage and flood alleviation, project appraisal and management and computer awareness. An individual project is required.

**FEES:** Contact provider

**INFORMATION:** Graduate School Secretary, School of Civil Engineering, University of Birmingham, PO Box 33, Birmingham B15 2TT, United Kingdom, PH: 44 21 414 5089, FX: 44 21 414 3675, TLX: 333762 UOBHAMG

--- COURSE NUMBER: WR32 ---

**TITLE:** Design of Earth Dams and Reservoir Hydrology

**PROVIDER:** International Center for Water Resources Management

**DATES:** 11/00/92 - 12/00/92 **DURATION:** 8 weeks

**LOCATION:** Wilberforce, Ohio, USA or requested location **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers, agriculturalists, water supply operators and irrigation professionals.

**OVERVIEW:** Course work will focus on technical details of the design and construction of earth dams; dam safety inspection; hydrology of reservoirs, outlet works, spillway design; computer applications; and field experience.

**FEES:** \$4,500 (excluding travel and per diem)

**INFORMATION:** Dr. Victor I. Okereke, Director, International Center for Water Resources Management, Central State University, Wilberforce, OH 45384, PH: 513 376 6153, FAX: 513 376 6530

--- COURSE NUMBER: WR33 ---

**TITLE:** River Basin Management

**PROVIDER:** Centre de Formation Internationale a la Gestion des Ressources en Eau (CEFIGRE)

**DATES:** 11/02/92 - 11/20/92 **DURATION:** 3 weeks

**LOCATION:** Bangkok, Thailand **LANGUAGE:** English

**PARTICIPANTS:** Decision-makers and senior officers in charge of water planning and management in Asia, the Middle East and Africa.

**OBJECTIVE:** To review the various water management tools and present the management systems based on Basin Unit, used in several countries.

**OVERVIEW:** Course will cover topics in water policy, planning and management including case studies; administrative, legislative and economic issues; water pollution control; water resource improvement; and water development schemes.

**FEES:** \$3,700

**INFORMATION:** International Office for Water, CEFIGRE, BP 113 Sophia Antipolis, 06561 VALBONNE CEDEX 1 - France, PH: 33 92 945800, FAX: 33 93 654402, TLX: 461311

--- COURSE NUMBER: WR34 ---

**TITLE:** Policy Seminar on Environmental Management of River Basins

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 12/00/92 - 12/00/92 **DURATION:** 1 week, TBA

**LOCATION:** Berlin, Germany **LANGUAGE:** English

**PARTICIPANTS:** For policy analysts in the water resources sector and for river basin managers in select European countries.

**OBJECTIVE:** To provide Eastern European environmental agencies with expertise in water quality management in river basins.

**OVERVIEW:** A number of approaches to water and land resources management in a river basin will be analyzed. Seminar will seek to raise awareness and insights on long-run economic and environmental implications of policies and management techniques.

**FEES:** Free if nominated by borrowing government

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: WR35 ---

**TITLE:** Water Conservation

**PROVIDER:** Centre de Formation Internationale a la Gestion des Ressources en Eau (CEFIGRE)

**DATES:** 12/07/92 - 12/18/92 **DURATION:** 2 weeks

**LOCATION:** Sophia Antipolis, France **LANGUAGE:** French

**PARTICIPANTS:** Engineers and administrators responsible for the management and use of water resources in the Mediterranean countries, Africa, Haiti and Madagascar.

**OVERVIEW:** The program will focus on technical aspects of water conservation, including techniques for conservation in all sectors, appropriate technologies and their uses, institutional methods and issues and analysis of constraints, especially socio-cultural.

**FEES:** FF. 16,400

**INFORMATION:** International Office for Water, CEFIGRE, BP 113 Sophia Antipolis, 06561 VALBONNE CEDEX 1 - France, PH: 33 92 945800, FAX: 33 93 654402, TLX: 461311

--- COURSE NUMBER: WR36 ---

**TITLE:** Water Resources Development and the Environment

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 00/00/93 - 00/00/93 00/00/94 - 00/00/94 **DURATION:** 5 days

**LOCATION:** Rabat, Morocco (1993), Dakar, Senegal (1994) **LANGUAGE:** French/English

**PARTICIPANTS:** Senior policy planners and practitioners from ministries and agencies concerned with the planning, implementation and operation of water resources projects.

**OBJECTIVE:** To raise the awareness and analytical insights of the participants to the long-run economic and environmental implications of policies and management techniques in the development and use of water resources.

**OVERVIEW:** Seminar will deal with water policy and management issues arising from increasing demand for water from competing sectors, e.g. agriculture and industry. Emphasis on policies for long term sustainable water resources development. Case studies used.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: WR37 ---

**TITLE:** Water and Other Natural Resources Management  
**PROVIDER:** Economic Development Institute (EDI)  
**DATES:** 00/00/93 - 00/00/93 00/00/93 - 00/00/93 **DURATION:** 10 days  
**LOCATION:** Dokki, Egypt; Ouagadougou, Burkina Faso **LANGUAGE:** French/English  
**PARTICIPANTS:** Senior policy advisors and managers in water resources.

**OVERVIEW:** Seminar will discuss the World Bank's policy on water resources in relation to changing demands on water use and natural resources in Africa. It will review policy objectives, regulatory frameworks and incentives for achieving sustainable development.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: WR38 ---

**TITLE:** Policies and Management of Water Resources  
**PROVIDER:** Economic Development Institute (EDI)  
**DATES:** 00/00/93 - 00/00/93 00/00/93 - 00/00/93 00/00/93 - 00/00/93 **DURATION:** 10 days  
**LOCATION:** Hungary or Czechoslovakia, Thailand, Egypt **LANGUAGE:** French/English  
**PARTICIPANTS:** Senior policy advisors and managers in water resources.

**OVERVIEW:** Seminar will discuss the World Bank's policy on water resources in relation to changing demands on it. It will review policy objectives, regulatory frameworks and incentives for achieving sustainable development. Regional focuses.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: WR39 ---

**TITLE:** Urban Water Supply Management

**PROVIDER:** Economic Development Institute (EDI)

**DATES:** 00/00/93 - 00/00/93 **DURATION:** 10 days

**LOCATION:** Paris, France **LANGUAGE:** French/English

**PARTICIPANTS:** Utility managers, engineers, economists.

**OVERVIEW:** Seminar will explore policy options that can promote the development of the water supply sector in Eastern Europe. It will discuss the technical, financial, economic and institutional arrangements necessary for effective management of the sector.

**FEES:** Free if nominated by borrowing government.

**INFORMATION:** The Coordinator, Training Support Unit, Economic Development Institute, 1818 H Street, NW, Washington, DC 20433, PH: 202 473 6461, FX: 202 676 0977

--- COURSE NUMBER: WR40 ---

**TITLE:** Flood and Flood Plain Analysis

**PROVIDER:** Texas A&M University

**DATES:** 01/04/93 - 01/08/93 **DURATION:** 5 days

**LOCATION:** College Station, Texas, USA **LANGUAGE:** English

**PARTICIPANTS:** Practicing engineers and planners.

**OBJECTIVE:** To provide participants with theory, basic principles, general guidelines and hands-on experience in flood and flood plain analysis.

**OVERVIEW:** The primary training tool will be the A&M Watershed Model used on IBM-compatible computers. Each participant will receive the modeling software, manual and course notes.

**FEES:** \$700 (excluding travel and expenses)

**INFORMATION:** Wesley P. James, Department of Civil Engineering, Texas A&M University, College Station, TX 77843-3136, PH: 409 845 4550, FAX: 409 845 6156

--- COURSE NUMBER: WR41 ---

**TITLE:** Introduccion al manejo de cuencas hidrograficas

**PROVIDER:** Instituto Tecnologico, Costa Rica

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 5 days

**LOCATION:** Cartago, Costa Rica **LANGUAGE:** Spanish

**PARTICIPANTS:** For professionals and technicians working on projects related to rural development, improvement and conservation of natural resources.

**OBJECTIVE:** To provide a panorama of the problems of development planning with regard to natural resources and sustainable development.

**OVERVIEW:** Participants will cover the concepts of river basin hydrology and sustainable development, land use, soil conservation, water quality and environmental impact.

**FEES:** Contact provider

**INFORMATION:** William Cordero, Departamento Ingenieria Forestal, Instituto Tecnologico de Costa Rica, Apartado 159-7050, Cartago, Costa Rica, PH: 506 515333, FX: 506 515348, TLX: 8013 ITCR CR

--- COURSE NUMBER: WR42 ---

**TITLE:** Streamflow Measurement and Introductory Hydrology

**PROVIDER:** Water, Engineering and Development Center (WEDC)

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 2 weeks, on demand

**LOCATION:** At chosen in-country location **LANGUAGE:** Spanish/English

**OVERVIEW:** Covers topics in flow measurements, stream flow records, runoff parameters, water in the ground, water in natural channels, stream channel patterns and processes and floods.

**FEES:** L. 12,000

**INFORMATION:** Kathy Haywood, WEDC, Loughborough, University of Technology, Leicestershire, LE11 3TU, United Kingdom, PH: 44 509 222885, FX: 44 509 211079, TLX: 34319 UNITEC G

--- COURSE NUMBER: WR43 ---

**TITLE:** Macroeconomic-based Water Resources Planning

**PROVIDER:** University of Georgia

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** To be designated **LANGUAGE:** English

**PARTICIPANTS:** Officials and planners responsible for water resources management.

**OBJECTIVE:** To provide working knowledge of both proven and state-of-the-art techniques for planning and managing water resources.

**OVERVIEW:** Course will cover theory, construction and application of macroeconomic models, database construction, MIS, GIS, institutional and organizational analysis and other key topics.

**FEES:** Contact provider

**INFORMATION:** Dr. Ronald M. North, Director, Institute of Natural Resources, Ecology Building, Rm. 13, University of Georgia, Athens, GA 30602, PH: 404 542 1555, FX: 404 542 6063

--- COURSE NUMBER: WR44 ---

**TITLE:** Field Techniques for Instream Flow Assessment Methodologies

**PROVIDER:** Utah State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 1 week, on demand

**LOCATION:** In host country **LANGUAGE:** English

**PARTICIPANTS:** For civil, environmental, water resources, irrigation or agricultural engineers with no prior experience in applied hydraulic modeling studies for instream flow assessments.

**OBJECTIVE:** To provide participants field techniques for acquisition of hydraulic data use for computer simulation models for assessing instream flows for the preservation and protection of aquatic environments.

**OVERVIEW:** Focuses on basic field techniques necessary for collection of hydraulic field data for use in computer simulation models of river flow for instream flow assessments.

**FEES:** To be determined

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: WR45 ---

**TITLE:** River Basin Hydrology

**PROVIDER:** Utah State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Logan, Utah, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** Civil engineers, water resources engineers, hydrologists and related planning professionals with a B.S. degree.

**OBJECTIVE:** Upon completion, trainee will be able to conduct hydrologic assessments of alternatives for river basin development and systems operations.

**OVERVIEW:** Course will cover theoretical underpinnings and practical procedures for the hydrologic assessment of alternatives for surface and groundwater management in multi-purpose water resources development and subsequent operations.

**FEES:** \$4-5,000 per trainee (based on 12 trainees)

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: WR46 ---

**TITLE:** River Basin Planning

**PROVIDER:** Utah State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 4 weeks, on demand

**LOCATION:** Logan, Utah, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** For civil and water resources engineers, hydrologists and related planning professionals with B.S. degree.

**OBJECTIVE:** Upon completion, trainee will be able to conduct reconnaissance studies comparing alternatives for river basin development and water management.

**OVERVIEW:** In addition to general theories and practical procedures, focus on training for planning at reconnaissance level will cover techniques to survey water supply and potential water uses, identify critical issues and integrate information on key issues.

**FEES:** \$4-5,000 per trainee (based on 12 trainees)

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: WR47 ---

**TITLE:** Surface Runoff Hydrology

**PROVIDER:** Utah State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 4 weeks, on demand

**LOCATION:** Logan, Utah, USA or host country **LANGUAGE:** English

**PARTICIPANTS:** For civil engineers, water resources engineers, hydrologists and related planning professions with a B.S. degree.

**OBJECTIVE:** Upon completion, trainees will have an understanding of the surface runoff processes and of procedures for quantifying runoff rates and volumes.

**OVERVIEW:** Course provides a basic understanding of various procedures for estimating hydrologic surface runoff rates and quantities for design of new structural systems, operation of existing structures, nonstructural applications.

**FEES:** \$4-5,000 per trainee (based on 12 trainees)

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

--- COURSE NUMBER: WR48 ---

**TITLE:** Water Resources Systems Analysis

**PROVIDER:** Utah State University

**DATES:** 00/00/00 - 00/00/00 **DURATION:** 14 weeks, on demand

**LOCATION:** Logan, Utah, USA or host country **LANGUAGE:** English

**OBJECTIVE:** Upon completion, the trainee will be able to operate a variety of systems tools and apply them to the solution of practical water resources planning and operations problems.

**OVERVIEW:** Through lecture, laboratory case studies, exercises and field trips, course will cover systems concepts, personal computer use, optimization techniques, water resources planning, water resources economics and other key topics.

**FEES:** \$11,500 to 13,500 for 12 trainees

**INFORMATION:** International Irrigation Center, Utah State University, Logan, UT 84322-4150, PH: 801 750 2800, FX: 801 750 1248, TLX: 3789426 UTAHSTATE LOGN

**TITLE:** Soil Erosion, Watershed Management and Upland Farming Systems Approaches

**PROVIDER:** University of Hawaii at Manoa

**DATES:** 00/00/00 - 00/00/00 **DURATION:** On demand

**LOCATION:** Honolulu, Hawaii, USA **LANGUAGE:** English

**PARTICIPANTS:** For planners, scientists, extension workers, conservationists professionally involved in soil erosion and conservation efforts.

**OBJECTIVE:** To strengthen the ability of intervention planners and implementers to interface with farmers and researchers for selecting integrated conservation measures, and to monitor the effectiveness of such measures.

**OVERVIEW:** Course will develop participants' knowledge of the interactions among primary biophysical, technical, socio-agroeconomic and institutional constraints to integrated soil conservation and watershed management in upland regions.

**FEES:** Varies by duration and scope of program

**INFORMATION:** Harold J. McArthur, Jr., Coordinator, International Programs, College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa, 214 Gilmore Hall, 3050 Maile Way, Honolulu, HI 96822, PH: 808 956 6441, FX: 808 956 6442

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## Administration, Operations

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AQ03	Ambient Air Quality Monitoring
AQ04	Air Pollution Control Technologies
EE01	Management of Training
EE07	Training of Training and Management of Training
EE10	Diploma in Natural Resources Training and Education
EE11	Tour Guide and Visitor Services
EM18	Ecological Principles for the Management of Natural Resources in Latin America
EM39	Certificate in Natural Resources Management
EM50	Project Management for Natural Resource Professionals
FM02	Forest Engineering Institute
PA02	Refuge Management Training Academy
PA08	National Parks Administration and Management Tour
WQ10	Water Quality Management for Decision-makers
WQ14	Wastewater Treatment

## Agriculture

---

EM21	Agro-ecology
EM35	Agricultural and Natural Resources Policy Analysis
EM55	Agricultural and Natural Resources Inventory and Planning
WR05	Wastewater Reuse
WR49	Soil Erosion, Watershed Management and Upland Farming Systems Approaches

## Agroforestry

---

EE04	Forestry and Agroforestry Training and Education
EM15	Agroforestry: Sustainable Land Use for the Humid Tropics

## Air Quality

---

AQ01	Stationary Source Air Pollution Monitoring
AQ02	Odor Abatement Course
AQ03	Ambient Air Quality Monitoring
EM52	Behavior of Chemicals in the Environment
EM53	Environmental Toxicology
RE07	Environmental Economics

## Arid, Drylands

---

EM28	Sustainable Development of Dryland Regions: Planning and Management for Multiple Use
EM29	Integrated Management of Semi-Arid Lands
MS17	Remote Sensing for Natural Resource Assessment
WR29	Soil and Water Conservation and Management

## Biological Diversity

---

BD01	Third Course on Biodiversity Inventories
BD02	Management for Biotic Diversity
BD03	Tropical Diversity and Conservation
FM18	9th International Seminar on Forest Administration

## Biology

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BD01	Third Course on Biodiversity Inventories
BD02	Management for Biotic Diversity
EM03	Tropical Dendrology

## Biology

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EM04	Life Zone Ecology
EM06	Population Ecology
EM08	Tropical Biology: An Ecological Approach
EM21	Agro-ecology
EM22	Tropical Biology: An Ecological Approach
EM39	Certificate in Natural Resources Management
EM45	Diploma in Environmental Science
FM01	Silviculture Institute
WM05	Introduction to Field Biology: Landbirds
WM09	Introduction to Field Biology: Shorebirds
WM10	Marine Turtle Conservation and Management
WM13	Shorebird Studies in Puerto Rico
WM14	Marine Turtle Conservation and Management

## Bufferzone

---

EM51	Natural Resource Protection through Sustainable Development Projects at the Community Level
PA03	Buffer Zone Management for Protected Areas
WM03	Certificate Course in Wildlife Management

## Chemistry

---

CM01	Coastal Zone Management
WM12	Applied Modelling of Ground Water Chemistry

## Coastal Zone

---

CM02	Integrated Coastal Resources Management
CM03	Summer Institute in Coastal Management
CM04	Coastal Zone Environmental Planning
CM05	Seminar on Coastal Zone Management
CM06	4th International Seminar on Coastal Parks and Protected Areas
CM07	Coastal Zone Management
EM38	Diploma in Resource Management and Environmental Studies

## Communication

---

EE03	Solving Natural Resource Problems through Social Marketing and Communication Strategies
EE05	Communication Planning and Strategy
EE08	Video Production for Training and Extension
EE11	Tour Guide and Visitor Services

## Community

---

EM51	Natural Resource Protection through Sustainable Development Projects at the Community Level
FM10	Certificate Course in Community Forestry
FM12	Raising the Value of Non-Timber Forest Products and Services for Local Communities
FM14	Design of Community Forestry
FM19	Forestry for Community Development

## Computer

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BD02	Management for Biotic Diversity
EM37	Computer Applications for Agricultural and Natural Resource Management
EM54	Microcomputer Applications for Natural Resources
MS01	Applied Remote Sensing

## Computer

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MS02	District Development Planning and Remote Sensing
MS03	Introduction to Geographic Information Systems (GIS)
MS04	Fundamentals of ARC/INFO
MS07	Image Processing and Digital Analysis
MS08	Geographic Information Systems
MS09	Image Processing of Satellite Data for Natural Resource Applications
MS10	Remote Sensing and GIS in Water Resources Engineering
MS11	International Geographic Information Systems Training Program
MS13	GIS and Remote Sensing for Water Resources
MS14	Advanced Techniques in GIS
MS15	Introduction to Geographic Information Systems
MS16	GIS Technology in Land and Resource Management
RE02	Economics of Water Systems Rehabilitation
WM11	Using the Computer-based Physical Habitat Simulation System (PHABSIM)
WM17	Microcomputer Applications for Teaching Population Ecology
WQ02	River Water Quality Management
WQ12	Applied Modelling of Ground Water Chemistry
WR09	Applied Groundwater Flow Modelling
WR12	Stream Hydrology and Hydraulics
WR14	Two-dimensional River Modeling
WR17	Groundwater Hydrology
WR21	Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcompute
WR25	Microcomputers for Water Supply and Sanitation
WR27	Microcomputers in Water Resources Systems Management
WR31	Diploma in Water Resources Engineering for Developing Countries
WR32	Design of Earth Dams and Reservoir Hydrology
WR40	Flood and Flood Plain Analysis
WR44	Field Techniques for Instream Flow Assessment Methodologies
WR48	Water Resources Systems Analysis

## Conservation, Protection

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BD03	Tropical Diversity and Conservation
EM01	Regional Course on Environmental Management and Development
EM02	Sub-regional Course on Environmental Management and Development
EM07	Interdependence: Economic Development and Environmental Concerns in Tropical Countries
EM12	Legal Aspects of Environment and Natural Resources Management
EM19	Fellowship Opportunities for Caribbean Conservation Professionals
EM20	Innovative Approaches for Protecting the Environment
EM40	Environmental Management Course
EM42	Environmental Management for Developing Countries
EM44	Diploma in Ecology
EM46	Certificate in Environmental Conservation
EM47	Conservation and Ecology
EM48	Legal Aspects of Environmental Resource Management in Developing Countries
EM51	Natural Resource Protection through Sustainable Development Projects at the Community Level
PA01	Management and Conservation of Protected Areas in Latin America
PA04	Management of Conservation Areas and Wildlife
PA07	Protected Areas Resources Management
WM02	Wildlife Conservation and Management Training Program
WM06	Wildlife Conservation and Management Training Program
WM15	Wildlife Conservation Law Enforcement
WR21	Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcompute
WR28	Watershed Resources Management and Conservation
WR29	Soil and Water Conservation and Management
WR35	Water Conservation

## Conservation, Protection

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- WR44 Field Techniques for Instream Flow Assessment Methodologies  
WR49 Soil Erosion, Watershed Management and Upland Farming Systems Approaches

## Data, Statistics

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- EM37 Computer Applications for Agricultural and Natural Resource Management  
EM54 Microcomputer Applications for Natural Resources  
MS02 District Development Planning and Remote Sensing  
MS03 Introduction to Geographic Information Systems (GIS)  
MS04 Fundamentals of ARC/INFO  
MS05 Introduction to Digital Image Processing  
MS07 Image Processing and Digital Analysis  
MS08 Geographic Information Systems  
MS10 Remote Sensing and GIS in Water Resources Engineering  
MS14 Advanced Techniques in GIS  
WR44 Field Techniques for Instream Flow Assessment Methodologies

## Design

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- CM02 Integrated Coastal Resources Management  
FM14 Design of Community Forestry  
WQ03 Water Analysis and Quality  
WQ06 Water Treatment Plant Design  
WQ07 Design of Water Quality Monitoring Networks  
WQ14 Wastewater Treatment  
WR13 Reservoir Sedimentation: Its Analysis and Control  
WR30 Water Distribution System Analysis and Design  
WR47 Surface Runoff Hydrology

## Development

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- EM01 Regional Course on Environmental Management and Development  
EM02 Sub-regional Course on Environmental Management and Development  
EM05 Policies for Environmental Protection  
EM07 Interdependence: Economic Development and Environmental Concerns in Tropical Countries  
EM09 Participation Resources Management and Development  
EM10 Environmental Development Planning  
EM11 District Development Planning  
EM12 Legal Aspects of Environment and Natural Resources Management  
EM13 Seminar on Environmental Policy, Resource Management, and Development  
EM20 Innovative Approaches for Protecting the Environment  
EM23 Multiple Use Management of Rangelands  
EM27 Management for Sustainable Natural Resource Development & Environmental Protection  
EM28 Sustainable Development of Dryland Regions: Planning and Management for Multiple Use  
EM32 Environmental Management Course for Development Planning  
EM34 Gender, Resource Management and Development  
EM40 Environmental Management Course  
EM41 Senior Advanced Course on Lowland Development  
EM48 Legal Aspects of Environmental Resource Management in Developing Countries  
EM49 Environmental Management Policies and Institutions  
EM51 Natural Resource Protection through Sustainable Development Projects at the Community Level  
FM03 Seminar on Project Management of Tropical Forests in Latin America  
FM05 Silviculture and the Management of Natural Tropical Forests  
FM10 Certificate Course in Community Forestry  
FM11 Social Research Design and Evaluation Studies in Community Forestry  
FM13 Social Forestry Officers Development Course

## Development

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FM14	Design of Community Forestry
FM15	Forestry Planning and Management Course
FM19	Forestry for Community Development
FM21	Forestry Management for Sustainable Development
FM23	Preparation and Evaluation of Forestry Projects
IA01	Environmental Assessment Procedures and Methods
IA02	Environmental Impact Assessment and Project Appraisal
IA05	13th International Seminar on Environmental Assessment and Management
IA06	Environmental Assessment and Management in Agricultural Development
IA07	Environmental Impact Assessment
IA08	7th International Training Course on Environmental Assessment and Management
IA09	Environmental Impact Assessment for Developing Countries
IA10	Environmental Impact Assessment
IA11	Environmental Impact Assessment
MS02	District Development Planning and Remote Sensing
SW03	Course on Urban and Industrial Waste Management in Latin America
WM09	Post-graduate Diploma Course in Wildlife Management
WR03	Water, Life and Development
WR36	Water Resources Development and the Environment
WR37	Water and Other Natural Resources Management
WR38	Policies and Management of Water Resources
WR41	Introduccion al manejo de cuencas hidrograficas
WR45	River Basin Hydrology

## Ecology

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EM06	Population Ecology
EM08	Tropical Biology: An Ecological Approach
EM18	Ecological Principles for the Management of Natural Resources in Latin America
EM21	Agro-ecology
EM22	Tropical Biology: An Ecological Approach
EM23	Multiple Use Management of Rangelands
EM26	Applied Ecology
EM44	Diploma in Ecology
EM47	Conservation and Ecology
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WM02	Wildlife Conservation and Management Training Program
WM06	Wildlife Conservation and Management Training Program
WM12	Migration Ecology of Fall Landbirds
WM15	Wildlife Conservation Law Enforcement
WM17	Microcomputer Applications for Teaching Population Ecology
WM18	Fish and Wildlife Management
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## Economics

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EM20	Innovative Approaches for Protecting the Environment
EM56	Development and Management of Natural Resources for Tourism and Education
EM57	Ecology and Economics in the Third World
EM60	Environmental Policy Analysis and Environmental and Resource Economics
FM01	Silviculture Institute
FM04	Forest Appraisal - Part I
FM07	Silviculture for Non-Silviculturists
FM08	Forest Appraisal - Part II

## Economics

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FM09	Growth and Return for Plantation and Natural Forests
FM12	Raising the Value of Non-Timber Forest Products and Services for Local Communities
FM16	Forestry Extension Officers Development Course
IA04	Environmental Impact Assessment
IA12	Economic, Social & Environmental Impact Assessment in Developing Countries
RE01	Timberland Investment
RE02	Economics of Water Systems Rehabilitation
RE03	Advanced Recreation Economic Techniques
RE04	Environmental Economics
RE05	Economics of Resource Management
RE06	Natural Resource Economics
RE07	Environmental Economics
RE08	Ecotourism Economics
RE09	Forest and Natural Resource Economics
WQ01	Seminar on Institutional Development for Water Quality
WQ13	Water Pollution and Pricing Policy
WR20	Water Resource Planning and Management
WR22	Low-cost Water Supply and Sanitation
WR33	River Basin Management
WR34	Policy Seminar on Environmental Management of River Basins
WR36	Water Resources Development and the Environment
WR39	Urban Water Supply Management
WR43	Macroeconomic-based Water Resources Planning
WR48	Water Resources Systems Analysis

## Ecosystem

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BD03	Tropical Diversity and Conservation
EM04	Life Zone Ecology
EM06	Population Ecology
EM08	Tropical Biology: An Ecological Approach
EM22	Tropical Biology: An Ecological Approach
EM24	International Integrated Resource Management
EM26	Applied Ecology
EM52	Behavior of Chemicals in the Environment

## Education

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EE02	Post-Graduate Certificate in Environmental Education
EE03	Solving Natural Resource Problems through Social Marketing and Communication Strategies
EE04	Forestry and Agroforestry Training and Education
EE05	Communication Planning and Strategy
EE06	Water Resources and Environment: Education, Training and Publications
EE07	Training of Training and Management of Training
EE08	Video Production for Training and Extension
EE09	Certificate of Education
EE10	Diploma in Natural Resources Training and Education
EE11	Tour Guide and Visitor Services
EE12	Teacher Training Workshops
EM19	Fellowship Opportunities for Caribbean Conservation Professionals

## Energy, Fuels

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RE06	Natural Resource Economics
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## Engineering

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WR30	Water Distribution System Analysis and Design
WR31	Diploma in Water Resources Engineering for Developing Countries

## Environment

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EE02	Post-Graduate Certificate in Environmental Education
EE03	Solving Natural Resource Problems through Social Marketing and Communication Strategies
EM12	Legal Aspects of Environment and Natural Resources Management
EM13	Seminar on Environmental Policy, Resource Management, and Development
EM20	Innovative Approaches for Protecting the Environment
EM32	Environmental Management Course for Development Planning
EM33	Women in the Environmental Management Process
EM40	Environmental Management Course
EM42	Environmental Management for Developing Countries
EM45	Diploma in Environmental Science
EM46	Certificate in Environmental Conservation
EM49	Environmental Management Policies and Institutions
EM52	Behavior of Chemicals in the Environment
EM53	Environmental Toxicology
EM59	Environmental Conflict Resolution
EM60	Environmental Policy Analysis and Environmental and Resource Economics
IA01	Environmental Assessment Procedures and Methods
IA02	Environmental Impact Assessment and Project Appraisal
IA03	Environmental Impact Assessment Workshop
IA05	13th International Seminar on Environmental Assessment and Management
IA06	Environmental Assessment and Management in Agricultural Development
IA07	Environmental Impact Assessment
IA08	7th International Training Course on Environmental Assessment and Management
IA09	Environmental Impact Assessment for Developing Countries
IA10	Environmental Impact Assessment
IA12	Economic, Social & Environmental Impact Assessment in Developing Countries
IA13	Environmental Impact Assessment
RE04	Environmental Economics
RE07	Environmental Economics
WR23	Hydrology for Environmental Protection

## Evaluation, Appraisal

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EM14	Habitat Evaluation Procedures
FM11	Social Research Design and Evaluation Studies in Community Forestry
FM23	Preparation and Evaluation of Forestry Projects

## Extension

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EE04	Forestry and Agroforestry Training and Education
EE05	Communication Planning and Strategy
EE08	Video Production for Training and Extension
FM16	Forestry Extension Officers Development Course

## Fish, Fisheries

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EM38	Diploma in Resource Management and Environmental Studies
RE06	Natural Resource Economics
WM18	Fish and Wildlife Management

## Forestry, Forests

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EE04	Forestry and Agroforestry Training and Education
EM24	International Integrated Resource Management
FM01	Silviculture Institute
FM02	Forest Engineering Institute
FM03	Seminar on Project Management of Tropical Forests in Latin America
FM04	Forest Appraisal - Part I
FM05	Silviculture and the Management of Natural Tropical Forests
FM06	Short Course on Forest Tree Improvement
FM07	Silviculture for Non-Silviculturists
FM08	Forest Appraisal - Part II
FM09	Growth and Return for Plantation and Natural Forests
FM10	Certificate Course in Community Forestry
FM11	Social Research Design and Evaluation Studies in Community Forestry
FM12	Raising the Value of Non-Timber Forest Products and Services for Local Communities
FM13	Social Forestry Officers Development Course
FM14	Design of Community Forestry
FM15	Forestry Planning and Management Course
FM16	Forestry Extension Officers Development Course
FM17	Applied Forest Inventory
FM18	9th International Seminar on Forest Administration
FM19	Forestry for Community Development
FM20	Management of Forest Diseases
FM21	Forestry Management for Sustainable Development
FM22	Utilization and Forestry in Tropical Forests
FM23	Preparation and Evaluation of Forestry Projects
RE01	Timberland Investment
RE06	Natural Resource Economics
RE09	Forest and Natural Resource Economics
WM04	Wildlife Habitat Management
WR07	Basic Groundwater Hydrology

## Geographic Information Systems

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CM04	Coastal Zone Environmental Planning
EM24	International Integrated Resource Management
EM43	Diploma in Rural and Regional Resources Planning
MS03	Introduction to Geographic Information Systems (GIS)
MS04	Fundamentals of ARC/INFO
MS08	Geographic Information Systems
MS10	Remote Sensing and GIS in Water Resources Engineering
MS11	International Geographic Information Systems Training Program
MS13	GIS and Remote Sensing for Water Resources
MS14	Advanced Techniques in GIS
MS15	Introduction to Geographic Information Systems
MS16	GIS Technology in Land and Resource Management
WR21	Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcompute
WR43	Macroeconomic-based Water Resources Planning

## Global Climate Change

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EM60	Environmental Policy Analysis and Environmental and Resource Economics
GC01	Global Environmental Change
MS17	Remote Sensing for Natural Resource Assessment

## Groundwater

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WQ04	Modeling of Groundwater Flow and Pollution
WQ11	Applied Modelling of Ground Water Pollution
WQ12	Applied Modelling of Ground Water Chemistry
WR07	Basic Groundwater Hydrology
WR09	Applied Groundwater Flow Modelling
WR17	Groundwater Hydrology
WR45	River Basin Hydrology

## Habitat

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EM14	Habitat Evaluation Procedures
WM03	Certificate Course in Wildlife Management
WM04	Wildlife Habitat Management
WM09	Post-graduate Diploma Course in Wildlife Management
WM11	Using the Computer-based Physical Habitat Simulation System (PHABSIM)
WM18	Fish and Wildlife Management

## Hazardous Waste

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EE12	Teacher Training Workshops
SW02	Solid and Hazardous Waste Management

## Human Resources

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EE10	Diploma in Natural Resources Training and Education
PA02	Refuge Management Training Academy

## Hydrology

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WR01	Andean Hydrology
WR02	Short Course in Water Sciences
WR06	Regional Course in Hydrology and Water Science
WR07	Basic Groundwater Hydrology
WR11	General Hydrology with Environmental Aspects
WR12	Stream Hydrology and Hydraulics
WR17	Groundwater Hydrology
WR23	Hydrology for Environmental Protection
WR32	Design of Earth Dams and Reservoir Hydrology
WR41	Introducción al manejo de cuencas hidrográficas
WR42	Streamflow Measurement and Introductory Hydrology
WR45	River Basin Hydrology
WR47	Surface Runoff Hydrology

## Hydrometry

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WR18	Hydrometry
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## Image Processing

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MS01	Applied Remote Sensing
MS05	Introduction to Digital Image Processing
MS07	Image Processing and Digital Analysis
MS09	Image Processing of Satellite Data for Natural Resource Applications
MS13	GIS and Remote Sensing for Water Resources
WR21	Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcompute

## Impact Assessment, Mitigation

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AQ04	Air Pollution Control Technologies
CM03	Summer Institute in Coastal Management
EM01	Regional Course on Environmental Management and Development
EM02	Sub-regional Course on Environmental Management and Development
EM05	Policies for Environmental Protection
EM14	Habitat Evaluation Procedures
EM36	Environmental Planning and Management
IA01	Environmental Assessment Procedures and Methods
IA02	Environmental Impact Assessment and Project Appraisal
IA03	Environmental Impact Assessment Workshop
IA04	Environmental Impact Assessment
IA05	13th International Seminar on Environmental Assessment and Management
IA06	Environmental Assessment and Management in Agricultural Development
IA07	Environmental Impact Assessment
IA08	7th International Training Course on Environmental Assessment and Management
IA09	Environmental Impact Assessment for Developing Countries
IA10	Environmental Impact Assessment
IA11	Environmental Impact Assessment
IA12	Economic, Social & Environmental Impact Assessment in Developing Countries
IA13	Environmental Impact Assessment
SW03	Course on Urban and Industrial Waste Management in Latin America
WM11	Using the Computer-based Physical Habitat Simulation System (PHABSIM)
WQ08	The Battle Against Industrial Pollution
WR13	Reservoir Sedimentation: Its Analysis and Control
WR28	Watershed Resources Management and Conservation
WR34	Policy Seminar on Environmental Management of River Basins
WR41	Introducción al manejo de cuencas hidrográficas

## Implementation

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CM02	Integrated Coastal Resources Management
FM15	Forestry Planning and Management Course

## Institutions

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CM07	Coastal Zone Management
EM13	Seminar on Environmental Policy, Resource Management, and Development
EM39	Certificate in Natural Resources Management
FM18	9th International Seminar on Forest Administration
WQ01	Seminar on Institutional Development for Water Quality
WR35	Water Conservation
WR39	Urban Water Supply Management
WR43	Macroeconomic-based Water Resources Planning

## Inventory

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BD01	Third Course on Biodiversity Inventories
FM17	Applied Forest Inventory

## Lakes, Reservoirs

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WR13	Reservoir Sedimentation: Its Analysis and Control
WR19	Limnology of Lakes and Reservoirs
WR32	Design of Earth Dams and Reservoir Hydrology

## Land Use

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EM04	Life Zone Ecology
EM15	Agroforestry: Sustainable Land Use for the Humid Tropics
EM25	Land Use Planning for Community Forestry and Natural Resource Development
EM31	Land Tenure and Natural Resource Management Short Course
EM36	Environmental Planning and Management
EM55	Agricultural and Natural Resources Inventory and Planning
MS01	Applied Remote Sensing
MS08	Geographic Information Systems
WR41	Introducción al manejo de cuencas hidrográficas

## Law, Regulations, Legislation

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CM01	Coastal Zone Management
CM07	Coastal Zone Management
EM12	Legal Aspects of Environment and Natural Resources Management
EM48	Legal Aspects of Environmental Resource Management in Developing Countries
WM15	Wildlife Conservation Law Enforcement
WQ08	The Battle Against Industrial Pollution
WR20	Water Resource Planning and Management
WR37	Water and Other Natural Resources Management
WR38	Policies and Management of Water Resources

## Lowlands, Floodplains, Wetlands

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EM41	Senior Advanced Course on Lowland Development
WR14	Two-dimensional River Modeling
WR40	Flood and Flood Plain Analysis

## Management

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BD02	Management for Biotic Diversity
CM01	Coastal Zone Management
CM03	Summer Institute in Coastal Management
CM05	Seminar on Coastal Zone Management
CM06	4th International Seminar on Coastal Parks and Protected Areas
EE01	Management of Training
EE07	Training of Training and Management of Training
EM07	Interdependence: Economic Development and Environmental Concerns in Tropical Countries
EM09	Participation Resources Management and Development
EM16	Outdoor Recreation
EM18	Ecological Principles for the Management of Natural Resources in Latin America
EM23	Multiple Use Management of Rangelands
EM24	International Integrated Resource Management
EM26	Applied Ecology
EM27	Management for Sustainable Natural Resource Development & Environmental Protection
EM28	Sustainable Development of Dryland Regions: Planning and Management for Multiple Use
EM29	Integrated Management of Semi-Arid Lands
EM32	Environmental Management Course for Development Planning
EM33	Women in the Environmental Management Process
EM37	Computer Applications for Agricultural and Natural Resource Management
EM38	Diploma in Resource Management and Environmental Studies
EM41	Senior Advanced Course on Lowland Development
EM42	Environmental Management for Developing Countries
EM43	Diploma in Rural and Regional Resources Planning
EM49	Environmental Management Policies and Institutions
EM50	Project Management for Natural Resource Professionals

## Management

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EM54	Microcomputer Applications for Natural Resources
EM58	Resource Management Training
FM01	Silviculture Institute
FM03	Seminar on Project Management of Tropical Forests in Latin America
FM05	Silviculture and the Management of Natural Tropical Forests
FM07	Silviculture for Non-Silviculturists
FM15	Forestry Planning and Management Course
FM18	9th International Seminar on Forest Administration
FM21	Forestry Management for Sustainable Development
FM22	Utilization and Forestry in Tropical Forests
IA05	13th International Seminar on Environmental Assessment and Management
IA08	7th International Training Course on Environmental Assessment and Management
IA09	Environmental Impact Assessment for Developing Countries
PA01	Management and Conservation of Protected Areas in Latin America
PA03	Buffer Zone Management for Protected Areas
PA04	Management of Conservation Areas and Wildlife
PA05	Management of Wildlands and Protected Areas
SW01	Solid Waste and Environmental Management
WM02	Wildlife Conservation and Management Training Program
WM03	Certificate Course in Wildlife Management
WM04	Wildlife Habitat Management
WM06	Wildlife Conservation and Management Training Program
WM07	Program for Wildlife Preserve Managers
WM09	Post-graduate Diploma Course in Wildlife Management
WM10	Marine Turtle Conservation and Management
WM14	Marine Turtle Conservation and Management
WM16	Wildlife Utilization
WM18	Fish and Wildlife Management
WQ03	Water Analysis and Quality
WQ10	Water Quality Management for Decision-makers
WQ11	Applied Modelling of Ground Water Pollution
WR03	Water, Life and Development
WR08	Community Water Supply and Sanitation
WR10	Water Supply and Sanitation Projects and Programmes
WR15	Drought Water Management
WR20	Water Resource Planning and Management
WR24	Watershed Management
WR26	Upgrading and Management of Urban Water Supplies
WR28	Watershed Resources Management and Conservation
WR29	Soil and Water Conservation and Management
WR33	River Basin Management
WR34	Policy Seminar on Environmental Management of River Basins
WR39	Urban Water Supply Management
WR46	River Basin Planning

## Mapping

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MS03	Introduction to Geographic Information Systems (GIS)
MS04	Fundamentals of ARC/INFO
MS11	International Geographic Information Systems Training Program
MS13	GIS and Remote Sensing for Water Resources
WM03	Certificate Course in Wildlife Management

## Marine, Ocean

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CH01	Coastal Zone Management
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## Marine, Ocean

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CM02	Integrated Coastal Resources Management
CM03	Summer Institute in Coastal Management
CM04	Coastal Zone Environmental Planning
CM05	Seminar on Coastal Zone Management
CM06	4th International Seminar on Coastal Parks and Protected Areas
CM07	Coastal Zone Management
EM38	Diploma in Resource Management and Environmental Studies
MS12	Remote Sensing in Oceanography
WQ05	Analysis of Marine Pollution

## Modelling

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FM09	Growth and Return for Plantation and Natural Forests
MS03	Introduction to Geographic Information Systems (GIS)
WQ02	River Water Quality Management
WQ04	Modeling of Groundwater Flow and Pollution
WQ11	Applied Modelling of Ground Water Pollution
WQ12	Applied Modelling of Ground Water Chemistry
WR09	Applied Groundwater Flow Modelling
WR14	Two-dimensional River Modeling
WR40	Flood and Flood Plain Analysis
WR44	Field Techniques for Instream Flow Assessment Methodologies

## Monitoring, Inspection

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AQ01	Stationary Source Air Pollution Monitoring
IA04	Environmental Impact Assessment
IA08	7th International Training Course on Environmental Assessment and Management
WQ07	Design of Water Quality Monitoring Networks

## Natural Resources

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CM01	Coastal Zone Management
EE03	Solving Natural Resource Problems through Social Marketing and Communication Strategies
EE09	Certificate of Education
EE10	Diploma in Natural Resources Training and Education
EM07	Interdependence: Economic Development and Environmental Concerns in Tropical Countries
EM09	Participation Resources Management and Development
EM10	Environmental Development Planning
EM12	Legal Aspects of Environment and Natural Resources Management
EM14	Habitat Evaluation Procedures
EM16	Outdoor Recreation
EM18	Ecological Principles for the Management of Natural Resources in Latin America
EM19	Fellowship Opportunities for Caribbean Conservation Professionals
EM25	Land Use Planning for Community Forestry and Natural Resource Development
EM27	Management for Sustainable Natural Resource Development & Environmental Protection
EK30	Natural Resources Policy
EM31	Land Tenure and Natural Resource Management Short Course
EM34	Gender, Resource Management and Development
EM35	Agricultural and Natural Resources Policy Analysis
EM36	Environmental Planning and Management
EM37	Computer Applications for Agricultural and Natural Resource Management
EM38	Diploma in Resource Management and Environmental Studies
EM39	Certificate in Natural Resources Management
EM43	Diploma in Rural and Regional Resources Planning
EM46	Certificate in Environmental Conservation

## Natural Resources

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EM47	Conservation and Ecology
EM48	Legal Aspects of Environmental Resource Management in Developing Countries
EM54	Microcomputer Applications for Natural Resources
EM56	Development and Management of Natural Resources for Tourism and Education
EM57	Ecology and Economics in the Third World
EM	Resource Management Training
MS09	Image Processing of Satellite Data for Natural Resource Applications
MS17	Remote Sensing for Natural Resource Assessment
RE06	Natural Resource Economics
RE09	Forest and Natural Resource Economics
WR24	Watershed Management
WR37	Water and Other Natural Resources Management

## Photo Interpretation

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MS06	Photogrammetry and Aerial Photo Interpretation
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## Planning, Plans

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CH02	Integrated Coastal Resources Management
CH04	Coastal Zone Environmental Planning
CH05	Seminar on Coastal Zone Management
CH06	4th International Seminar on Coastal Parks and Protected Areas
EE01	Management of Training
EE02	Post-Graduate Certificate in Environmental Education
EE05	Communication Planning and Strategy
EN10	Environmental Development Planning
EN11	District Development Planning
EN24	International Integrated Resource Management
EN25	Land Use Planning for Community Forestry and Natural Resource Development
EN26	Applied Ecology
EN30	Natural Resources Policy
EN32	Environmental Management Course for Development Planning
EN36	Environmental Planning and Management
EN41	Senior Advanced Course on Lowland Development
EN43	Diploma in Rural and Regional Resources Planning
EN55	Agricultural and Natural Resources Inventory and Planning
EN58	Resource Management Training
FM23	Preparation and Evaluation of Forestry Projects
MS01	Applied Remote Sensing
MS02	District Development Planning and Remote Sensing
MS08	Geographic Information Systems
MS10	Remote Sensing and GIS in Water Resources Engineering
RE05	Economics of Resource Management
WM09	Post-graduate Diploma Course in Wildlife Management
WQ01	Seminar on Institutional Development for Water Quality
WR21	Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcomputer
WR24	Watershed Management
WR43	Macroeconomic-based Water Resources Planning
WR46	River Basin Planning
WR48	Water Resources Systems Analysis

## Policy, Decision-making

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EM13	Seminar on Environmental Policy, Resource Management, and Development
EN30	Natural Resources Policy

## Policy, Decision-making

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EM31	Land Tenure and Natural Resource Management Short Course
EM35	Agricultural and Natural Resources Policy Analysis
EM49	Environmental Management Policies and Institutions
EM57	Ecology and Economics in the Third World
EM59	Environmental Conflict Resolution
EM60	Environmental Policy Analysis and Environmental and Resource Economics
FM03	Seminar on Project Management of Tropical Forests in Latin America
FM18	9th International Seminar on Forest Administration
FM21	Forestry Management for Sustainable Development
IA06	Environmental Assessment and Management in Agricultural Development
IA11	Environmental Impact Assessment
WR33	River Basin Management
WR34	Policy Seminar on Environmental Management of River Basins
WR36	Water Resources Development and the Environment
WR37	Water and Other Natural Resources Management
WR38	Policies and Management of Water Resources

## Pollution, Pollution Control

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AQ02	Odor Abatement Course
AQ04	Air Pollution Control Technologies
EM17	Environmental Toxicology and Risk Assessment
EM52	Behavior of Chemicals in the Environment
EM53	Environmental Toxicology
RE07	Environmental Economics
SW01	Solid Waste and Environmental Management
SW05	Solid Waste Management
WQ02	River Water Quality Management
WQ04	Modeling of Groundwater Flow and Pollution
WQ05	Analysis of Marine Pollution
WQ08	The Battle Against Industrial Pollution
WQ11	Applied Modelling of Ground Water Pollution
WQ14	Wastewater Treatment
WR16	Environmental Aspects of Canals and Streams
WR26	Upgrading and Management of Urban Water Supplies
WR33	River Basin Management

## Population, Demographics

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EM06	Population Ecology
EM44	Diploma in Ecology
EM54	Microcomputer Applications for Natural Resources
WM17	Microcomputer Applications for Teaching Population Ecology
WM18	Fish and Wildlife Management

## Protected Areas

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PA01	Management and Conservation of Protected Areas in Latin America
PA02	Refuge Management Training Academy
PA03	Buffer Zone Management for Protected Areas
PA04	Management of Conservation Areas and Wildlife
PA05	Management of Wildlands and Protected Areas
PA06	Conservation Land Acquisition
PA07	Protected Areas Resources Management
PA08	National Parks Administration and Management Tour
WM07	Program for Wildlife Preserve Managers

## Protected Areas

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WM10 Marine Turtle Conservation and Management  
WM14 Marine Turtle Conservation and Management

## Public Participation, Awareness

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CM06 4th International Seminar on Coastal Parks and Protected Areas  
EM09 Participation Resources Management and Development  
EM25 Land Use Planning for Community Forestry and Natural Resource Development  
EM59 Environmental Conflict Resolution  
IA04 Environmental Impact Assessment  
IA11 Environmental Impact Assessment

## Range Management

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EM23 Multiple Use Management of Rangelands  
EM55 Agricultural and Natural Resources Inventory and Planning  
WM16 Wildlife Utilization

## Recreation

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EM16 Outdoor Recreation  
EM58 Resource Management Training  
FM07 Silviculture for Non-Silviculturists  
RE03 Advanced Recreation Economic Techniques

## Remote Sensing

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CM04 Coastal Zone Environmental Planning  
MS01 Applied Remote Sensing  
MS02 District Development Planning and Remote Sensing  
MS05 Introduction to Digital Image Processing  
MS07 Image Processing and Digital Analysis  
MS10 Remote Sensing and GIS in Water Resources Engineering  
MS12 Remote Sensing in Oceanography  
MS13 GIS and Remote Sensing for Water Resources  
MS14 Advanced Techniques in GIS  
MS17 Remote Sensing for Natural Resource Assessment

## Research

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EM42 Environmental Management for Developing Countries  
EM44 Diploma in Ecology  
EM45 Diploma in Environmental Science  
FM11 Social Research Design and Evaluation Studies in Community Forestry  
WM01 Bird Communities of the Tropical Forest  
WM07 Program for Wildlife Preserve Managers  
WM12 Migration Ecology of Fall Landbirds  
WM13 Shorebird Studies in Puerto Rico  
WM16 Wildlife Utilization

## Resources Assessment

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CM07 Coastal Zone Management

## Risk Assessment

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EM17 Environmental Toxicology and Risk Assessment

## River/Stream

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WQ02 River Water Quality Management  
WR12 Stream Hydrology and Hydraulics  
WR14 Two-dimensional River Modeling  
WR16 Environmental Aspects of Canals and Streams  
WR42 Streamflow Measurement and Introductory Hydrology  
WR44 Field Techniques for Instream Flow Assessment Methodologies

## Rural

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EM09 Participation Resources Management and Development  
EM10 Environmental Development Planning  
EM11 District Development Planning  
EM13 Seminar on Environmental Policy, Resource Management, and Development  
EM34 Gender, Resource Management and Development  
EM43 Diploma in Rural and Regional Resources Planning  
EM56 Development and Management of Natural Resources for Tourism and Education  
FM10 Certificate Course in Community Forestry  
FM11 Social Research Design and Evaluation Studies in Community Forestry  
FM13 Social Forestry Officers Development Course  
FM14 Design of Community Forestry  
FM15 Forestry Planning and Management Course  
FM19 Forestry for Community Development  
MS02 District Development Planning and Remote Sensing  
SW05 Solid Waste Management  
WR10 Water Supply and Sanitation Projects and Programmes

## Social, Society

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EM25 Land Use Planning for Community Forestry and Natural Resource Development  
FM11 Social Research Design and Evaluation Studies in Community Forestry  
FM13 Social Forestry Officers Development Course  
FM16 Forestry Extension Officers Development Course  
IA01 Environmental Assessment Procedures and Methods  
IA12 Economic, Social & Environmental Impact Assessment in Developing Countries  
PA01 Management and Conservation of Protected Areas in Latin America  
PA02 Refuge Management Training Academy

## Soil

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PA05 Management of Wildlands and Protected Areas  
RE05 Economics of Resource Management  
WR21 Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcompute  
WR29 Soil and Water Conservation and Management  
WR49 Soil Erosion, Watershed Management and Upland Farming Systems Approaches

## Solid Waste

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EE12 Teacher Training Workshops  
SW01 Solid Waste and Environmental Management  
SW02 Solid and Hazardous Waste Management  
SW05 Solid Waste Management

## Survey

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EM03	Tropical Dendrology
EM45	Diploma in Environmental Science
EM55	Agricultural and Natural Resources Inventory and Planning

## Sustainable

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EM01	Regional Course on Environmental Management and Development
EM02	Sub-regional Course on Environmental Management and Development
EM05	Policies for Environmental Protection
EM07	Interdependence: Economic Development and Environmental Concerns in Tropical Countries
EM10	Environmental Development Planning
EM15	Agroforestry: Sustainable Land Use for the Humid Tropics
EM20	Innovative Approaches for Protecting the Environment
EM26	Applied Ecology
EM27	Management for Sustainable Natural Resource Development & Environmental Protection
EM28	Sustainable Development of Dryland Regions: Planning and Management for Multiple Use
EM29	Integrated Management of Semi-Arid Lands
EM34	Gender, Resource Management and Development
EM35	Agricultural and Natural Resources Policy Analysis
EM40	Environmental Management Course
EM49	Environmental Management Policies and Institutions
EM51	Natural Resource Protection through Sustainable Development Projects at the Community Level
FM03	Seminar on Project Management of Tropical Forests in Latin America
FM05	Silviculture and the Management of Natural Tropical Forests
FM10	Certificate Course in Community Forestry
FM14	Design of Community Forestry
FM18	9th International Seminar on Forest Administration
FM21	Forestry Management for Sustainable Development
FM22	Utilization and Forestry in Tropical Forests
IA09	Environmental Impact Assessment for Developing Countries
WR36	Water Resources Development and the Environment
WR37	Water and Other Natural Resources Management
WR38	Policies and Management of Water Resources
WR41	Introduccion al manejo de cuencas hidrograficas

## Tourism, Ecotourism

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EE11	Tour Guide and Visitor Services
EM16	Outdoor Recreation
EM56	Development and Management of Natural Resources for Tourism and Education
PA08	National Parks Administration and Management Tour
RE08	Ecotourism Economics

## Toxic

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EM17	Environmental Toxicology and Risk Assessment
EM52	Behavior of Chemicals in the Environment
EM53	Environmental Toxicology

## Training

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EE01	Management of Training
EE04	Forestry and Agroforestry Training and Education
EE06	Water Resources and Environment: Education, Training and Publications
EE07	Training of Training and Management of Training
EE08	Video Production for Training and Extension

## Training

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EE10            Diploma in Natural Resources Training and Education  
EE12            Teacher Training Workshops

## Tropical, Tropics

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BD03            Tropical Diversity and Conservation  
EM03            Tropical Dendrology  
EM08            Tropical Biology: An Ecological Approach  
EM15            Agroforestry: Sustainable Land Use for the Humid Tropics  
EM22            Tropical Biology: An Ecological Approach  
FM03            Seminar on Project Management of Tropical Forests in Latin America  
FM05            Silviculture and the Management of Natural Tropical Forests  
FM20            Management of Forest Diseases  
FM22            Utilization and Forestry in Tropical Forests  
RE04            Environmental Economics  
WM01            Bird Communities of the Tropical Forest  
WR19            Limnology of Lakes and Reservoirs

## Urban, Partly Urbanized

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SW03            Course on Urban and Industrial Waste Management in Latin America  
WR04            Urban Water Supply  
WR10            Water Supply and Sanitation Projects and Programmes  
WR22            Low-cost Water Supply and Sanitation  
WR39            Urban Water Supply Management

## Waste

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SW03            Course on Urban and Industrial Waste Management in Latin America

## Water Quality

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EM53            Environmental Toxicology  
PA05            Management of Wildlands and Protected Areas  
RE05            Economics of Resource Management  
RE07            Environmental Economics  
WQ01            Seminar on Institutional Development for Water Quality  
WQ02            River Water Quality Management  
WQ03            Water Analysis and Quality  
WQ07            Design of Water Quality Monitoring Networks  
WQ08            The Battle Against Industrial Pollution  
WQ10            Water Quality Management for Decision-makers  
WQ12            Applied Modelling of Ground Water Chemistry  
WQ13            Water Pollution and Pricing Policy  
WR05            Wastewater Reuse  
WR16            Environmental Aspects of Canals and Streams  
WR19            Limnology of Lakes and Reservoirs  
WR23            Hydrology for Environmental Protection  
WR34            Policy Seminar on Environmental Management of River Basins  
WR41            Introduccion al manejo de cuencas hidrograficas

## Water Resources

-----  
EE06            Water Resources and Environment: Education, Training and Publications  
EE12            Teacher Training Workshops  
EM05            Policies for Environmental Protection

## Water Resources

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EM19	Fellowship Opportunities for Caribbean Conservation Professionals
IA11	Environmental Impact Assessment
IA12	Economic, Social & Environmental Impact Assessment in Developing Countries
MS10	Remote Sensing and GIS in Water Resources Engineering
MS13	GIS and Remote Sensing for Water Resources
RE02	Economics of Water Systems Rehabilitation
WM11	Using the Computer-based Physical Habitat Simulation System (PHABSIM)
WR01	Andean Hydrology
WR02	Short Course in Water Sciences
WR03	Water, Life and Development
WR04	Urban Water Supply
WR06	Regional Course in Hydrology and Water Science
WR11	General Hydrology with Environmental Aspects
WR15	Drought Water Management
WR20	Water Resource Planning and Management
WR27	Microcomputers in Water Resources Systems Management
WR29	Soil and Water Conservation and Management
WR30	Water Distribution System Analysis and Design
WR31	Diploma in Water Resources Engineering for Developing Countries
WR34	Policy Seminar on Environmental Management of River Basins
WR35	Water Conservation
WR36	Water Resources Development and the Environment
WR37	Water and Other Natural Resources Management
WR38	Policies and Management of Water Resources
WR39	Urban Water Supply Management
WR43	Macroeconomic-based Water Resources Planning
WR45	River Basin Hydrology
WR46	River Basin Planning
WR47	Surface Runoff Hydrology
WR48	Water Resources Systems Analysis

## Water Treatment, Waste Water

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WQ01	Seminar on Institutional Development for Water Quality
WQ03	Water Analysis and Quality
WQ06	Water Treatment Plant Design
WQ09	International Course on Anaerobic Waste Water Treatment
WQ14	Wastewater Treatment
WQ15	Basic Wastewater Collection and Treatment
WR05	Wastewater Reuse
WR08	Community Water Supply and Sanitation
WR10	Water Supply and Sanitation Projects and Programmes
WR22	Low-cost Water Supply and Sanitation
WR25	Microcomputers for Water Supply and Sanitation
WR26	Upgrading and Management of Urban Water Supplies
WR31	Diploma in Water Resources Engineering for Developing Countries

## Watershed, River Basin

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FH02	Forest Engineering Institute
FH07	Silviculture for Non-Silviculturists
IA12	Economic, Social & Environmental Impact Assessment in Developing Countries
WR21	Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcompute
WR24	Watershed Management
WR28	Watershed Resources Management and Conservation
WR33	River Basin Management

## Watershed, River Basin

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WR34	Policy Seminar on Environmental Management of River Basins
WR45	River Basin Hydrology
WR46	River Basin Planning
WR49	Soil Erosion, Watershed Management and Upland Farming Systems Approaches

## Wildlife

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EM06	Population Ecology
EM19	Fellowship Opportunities for Caribbean Conservation Professionals
PA02	Refuge Management Training Academy
PA05	Management of Wildlands and Protected Areas
PA08	National Parks Administration and Management Tour
WM01	Bird Communities of the Tropical Forest
WM02	Wildlife Conservation and Management Training Program
WM03	Certificate Course in Wildlife Management
WM05	Introduction to Field Biology: Landbirds
WM06	Wildlife Conservation and Management Training Program
WM07	Program for Wildlife Preserve Managers
WM08	Introduction to Field Biology: Shorebirds
WM09	Post-graduate Diploma Course in Wildlife Management
WM10	Marine Turtle Conservation and Management
WM12	Migration Ecology of Fall Landbirds
WM13	Shorebird Studies in Puerto Rico
WM14	Marine Turtle Conservation and Management
WM15	Wildlife Conservation Law Enforcement
WM16	Wildlife Utilization
WM18	Fish and Wildlife Management

## Women

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EM09	Participation Resources Management and Development
EM33	Women in the Environmental Management Process
EM34	Gender, Resource Management and Development

**INDEX OF COURSE LISTINGS  
BY LANGUAGE**

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Courses in Spanish

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BD01	3rd Course on Biodiversity Inventories
EM01	Regional Course on Environmental Management and Development
EM02	Sub-regional Course on Environmental Management and Development
EM03	Tropical Dendrology
EM04	Life Zone Ecology
EM06	Population Ecology
EM15	Agroforestry: Sustainable Land Use for the Humid Tropics
EM18	Ecological Principles for the Management of Natural Resources in Latin America
EM21	Agro-ecology
EM22	Tropical Biology: An Ecological Approach
EM49	Environmental Management Policies and Institutions
EM51	Natural Resource Protection through Sustainable Development Projects at the Community Level
EM57	Ecology and Economics in the Third World
FM03	Seminar on the Management of Tropical Forests in Latin America
FM05	Silviculture and the Management of Natural Tropical Forests
FM06	Short Course on Forest Tree Improvement
FM09	Growth and Return for Plantation and Natural Forests
FM12	Raising the Value of Non-Timber Forest Products and Services for Local Communities
FM20	Management of Forest Diseases
FM22	Utilization and Forestry of the Tropical Forests
FM23	Preparation and Evaluation of Forestry Projects
IA11	Environmental Impact Assessment
PA01	Management and Conservation of Protected Areas in Latin America
PA03	Buffer Zone Management for Protected Areas
PA05	Management of Wildlands and Protected Areas
PA08	National Parks Administration and Management Tour
SW03	Course on Urban and Industrial Waste Management in Latin America
WA02	Wildlife Conservation and Management Training Program
WM10	Marine Turtle Conservation and Management
WQ01	Seminar on Institutional Development for Water Quality
WR01	Andean Hydrology
WR02	Short Course in Water Sciences
WR03	Water, Life and Development
WR06	Regional Course in Hydrology and Water Science
WR11	General Hydrology with Environmental Aspects
WR29	Soil and Water Conservation and Management
WR41	Introducción al manejo de cuencas hidrográficas
WR42	Streamflow Measurement and Introductory Hydrology

Courses in French

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EM12	Legal Aspects of Environment and Natural Resources Management
EM31	Land Tenure and Natural Resource Management Short Course
EM49	Environmental Management Policies and Institutions
RE08	Ecotourism Economics
RE09	Forest and Natural Resource Economics
WQ08	The Battle Against Industrial Pollution
WR35	Water Conservation
WR36	Water Resources Development and the Environment
WR37	Water and Other Natural Resources Management
WR38	Policies and Management of Water Resources
WR39	Urban Water Supply Management

Courses in Arabic

---

EM13	Seminar on Environmental Policy, Resource Management, and Development
EM49	Environmental Management Policies and Institutions

**INDEX OF COURSE LISTINGS  
BY PROVIDER**

Provisional Course Book

ANUTECH Pty Ltd.

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EM58 Resource Management Training  
EM59 Environmental Conflict Resolution  
EM60 Environmental Policy Analysis and Environmental and Resource Economics  
FM15 Forestry Planning and Management Course  
IA13 Environmental Impact Assessment

Asian Institute of Technology (AIT)

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CM04 Coastal Zone Environmental Planning  
EH10 Environmental Development Planning  
MS01 Applied Remote Sensing  
MS08 Geographic Information Systems

Atlantic Center for the Environment

---

EM19 Fellowship Opportunities for Caribbean Conservation Professionals

Bermuda Biological Station for Research

---

GC01 Global Environmental Change  
MS12 Remote Sensing in Oceanography  
WQ05 Analysis of Marine Pollution

California State Polytechnic University, Pomona

---

EM36 Environmental Planning and Management

Carribean Conservation Corps

---

WM10 Marine Turtle Conservation and Management  
WM14 Marine Turtle Conservation and Management

Center of Resource Management and Environmental Studies (CERMES)

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CM07 Coastal Zone Management  
EM38 Diploma in Resource Management and Environmental Studies  
IA03 Environmental Impact Assessment Workshop  
RE04 Environmental Economics

Centre de Formation Internationale a la Gestion des Ressources en Eau (CEFIGRE)

---

IA04 Environmental Impact Assessment  
WQ02 River Water Quality Management  
WQ08 The Battle Against Industrial Pollution  
WR05 Wastewater Reuse  
WR33 River Basin Management  
WR35 Water Conservation

Centro Agronomico Tropical de Investigacion y Ensenanza (CATIE)

---

FM05 Silviculture and the Management of Natural Tropical Forests

Clark University

---

EM09 Participation Resources Management and Development  
EM34 Gender, Resource Management and Development

College of African Wildlife Management - Mweka

---

EE11 Tour Guide and Visitor Services  
PA07 Protected Areas Resources Management  
WM15 Wildlife Conservation Law Enforcement  
WM16 Wildlife Utilization

Colorado State University

---

BD02 Management for Biotic Diversity  
EE06 Water Resources and Environment: Education, Training and Publications  
EM24 International Integrated Resource Management  
EM29 Integrated Management of Semi-Arid Lands  
MS10 Remote Sensing and GIS in Water Resources Engineering  
PA05 Management of Wildlands and Protected Areas  
WQ06 Water Treatment Plant Design  
WQ07 Design of Water Quality Monitoring Networks  
WR13 Reservoir Sedimentation: Its Analysis and Control  
WR20 Water Resource Planning and Management  
WR21 Watershed and Soil Conservation Survey and Planning for Developing Countries Using Microcompute  
WR23 Hydrology for Environmental Protection  
WR27 Microcomputers in Water Resources Systems Management

Cornell University

---

EE05 Communication Planning and Strategy

Ducks Unlimited de Mexico (DUMAC)

---

PA01 Management and Conservation of Protected Areas in Latin America

Duke University

---

CM01 Coastal Zone Management  
EM17 Environmental Toxicology and Risk Assessment  
FM04 Forest Appraisal - Part I  
FM08 Forest Appraisal - Part II  
FM17 Applied Forest Inventory  
PA06 Conservation Land Acquisition  
RE01 Timberland Investment  
WR07 Basic Groundwater Hydrology  
WR09 Applied Groundwater Flow Modelling

Economic Development Institute (EDI)

---

EM05 Policies for Environmental Protection  
EM13 Seminar on Environmental Policy, Resource Management, and Development  
EM49 Environmental Management Policies and Institutions  
FM03 Seminar on Project Management of Tropical Forests in Latin America  
FM21 Forestry Management for Sustainable Development  
IA01 Environmental Assessment Procedures and Methods  
IA11 Environmental Impact Assessment  
WQ01 Seminar on Institutional Development for Water Quality  
WQ13 Water Pollution and Pricing Policy  
WR34 Policy Seminar on Environmental Management of River Basins  
WR36 Water Resources Development and the Environment  
WR37 Water and Other Natural Resources Management  
WR38 Policies and Management of Water Resources

Economic Development Institute (EDI)

WR39 Urban Water Supply Management

Food Research Institute

EM35 Agricultural and Natural Resources Policy Analysis

Fundacion Neotropica

EM51 Natural Resource Protection through Sustainable Development Projects at the Community Level

INTRADOS/International Management Group

EM20 Innovative Approaches for Protecting the Environment

Ian McDonald Associates (IMA)

EM32 Environmental Management Course for Development Planning

EM33 Women in the Environmental Management Process

Indonesian Ministry of Forestry

PA04 Management of Conservation Areas and Wildlife

WR24 Watershed Management

Instituto Tecnologico, Costa Rica

FM09 Growth and Return for Plantation and Natural Forests

FM20 Management of Forest Diseases

FM22 Utilization and Forestry in Tropical Forests

FM23 Preparation and Evaluation of Forestry Projects

WR41 Introduccion al manejo de cuencas hidrograficas

International Agricultural Center

FM14 Design of Community Forestry

International Center for Water Resources Management

RE02 Economics of Water Systems Rehabilitation

SW02 Solid and Hazardous Waste Management

WR15 Drought Water Management

WR16 Environmental Aspects of Canals and Streams

WR17 Groundwater Hydrology

WR18 Hydrometry

WR19 Limnology of Lakes and Reservoirs

WR32 Design of Earth Dams and Reservoir Hydrology

International Development Law Institute

EM12 Legal Aspects of Environment and Natural Resources Management

EM48 Legal Aspects of Environmental Resource Management in Developing Countries

International Institute for Aerial Survey and Earth Science (ITC)

MS05 Introduction to Digital Image Processing

International Institute for Education

---

AQ01 Stationary Source Air Pollution Monitoring  
AQ03 Ambient Air Quality Monitoring  
AQ04 Air Pollution Control Technologies

International Institute for Hydraulic and Environmental Engineering (IHE)

---

CM05 Seminar on Coastal Zone Management  
EM26 Applied Ecology  
EM41 Senior Advanced Course on Lowland Development  
WQ09 International Course on Anaerobic Waste Water Treatment  
WQ10 Water Quality Management for Decision-makers  
WQ11 Applied Modelling of Ground Water Pollution  
WQ12 Applied Modelling of Ground Water Chemistry  
WR22 Low-cost Water Supply and Sanitation

Jordanhill College of Education

---

EE02 Post-Graduate Certificate in Environmental Education

Maine Audubon Society

---

EE12 Teacher Training Workshops

Management Training and Development Institute

---

EE07 Training of Training and Management of Training  
EE08 Video Production for Training and Extension

Manawatu Polytechnic

---

EM47 Conservation and Ecology

Manomet Bird Observatory

---

WM01 Bird Communities of the Tropical Forest  
WM05 Introduction to Field Biology: Landbirds  
WM08 Introduction to Field Biology: Shorebirds  
WM12 Migration Ecology of Fall Landbirds  
WM13 Shorebird Studies in Puerto Rico

National Biodiversity Institute

---

BD01 Third Course on Biodiversity Inventories

New Mexico State University

---

EM23 Multiple Use Management of Rangelands  
PA08 National Parks Administration and Management Tour

North American Association for Environmental Education (NAAEE)

---

EE03 Solving Natural Resource Problems through Social Marketing and Communication Strategies

North Carolina State University

---

FM06 Short Course on Forest Tree Improvement

Oregon State University

---

EM37 Computer Applications for Agricultural and Natural Resource Management  
EM52 Behavior of Chemicals in the Environment  
EM53 Environmental Toxicology  
FM01 Silviculture Institute  
FM02 Forest Engineering Institute  
MS06 Photogrammetry and Aerial Photo Interpretation  
MS16 GIS Technology in Land and Resource Management  
RE05 Economics of Resource Management  
WQ15 Basic Wastewater Collection and Treatment

Organization for Tropical Studies (OTS)

---

BD03 Tropical Diversity and Conservation  
EM06 Population Ecology  
EM07 Interdependence: Economic Development and Environmental Concerns in Tropical Countries  
EM08 Tropical Biology: An Ecological Approach  
EM18 Ecological Principles for the Management of Natural Resources in Latin America  
EM21 Agro-ecology  
EM22 Tropical Biology: An Ecological Approach

Regional Community Forestry Training Center (RECOFTC)

---

FM10 Certificate Course in Community Forestry

Smithsonian Institution

---

WM02 Wildlife Conservation and Management Training Program  
WM06 Wildlife Conservation and Management Training Program

Tairawhiti Polytechnic

---

EM46 Certificate in Environmental Conservation

Texas A&M University

---

WQ04 Modeling of Groundwater Flow and Pollution  
WR12 Stream Hydrology and Hydraulics  
WR14 Two-dimensional River Modeling  
WR30 Water Distribution System Analysis and Design  
WR40 Flood and Flood Plain Analysis

The IPACE Institute

---

AQ02 Odor Abatement Course

Tropical Science Center

---

EM03 Tropical Dendrology  
EM04 Life Zone Ecology  
EM57 Ecology and Economics in the Third World

U.N. Economic Commission for Latin America and the Caribbean (ECLAC)

-----  
EM01            Regional Course on Environmental Management and Development  
EM02            Sub-regional Course on Environmental Management and Development  
SW03            Course on Urban and Industrial Waste Management in Latin America

U.S. Department of Agriculture

-----  
EM30            Natural Resources Policy

U.S. Fish and Wildlife Service

-----  
EM14            Habitat Evaluation Procedures  
PA02            Refuge Management Training Academy  
RE03            Advanced Recreation Economic Techniques

UNEP/Tufts University

-----  
EM40            Environmental Management Course

UNEP/UNESCO/Dresden University of Technology

-----  
EM42            Environmental Management for Developing Countries

UNESCO Regional Office for Science and Technology (ROSTLAC)

-----  
WR01            Andean Hydrology  
WR02            Short Course in Water Sciences  
WR03            Water, Life and Development  
WR06            Regional Course in Hydrology and Water Science  
WR11            General Hydrology with Environmental Aspects

University for Peace

-----  
EM15            Agroforestry: Sustainable Land Use for the Humid Tropics  
FM12            Raising the Value of Non-Timber Forest Products and Services for Local Comm.  
PA03            Buffer Zone Management for Protected Areas

University of Aberdeen

-----  
IA05            13th International Seminar on Environmental Assessment and Management  
IA08            7th International Training Course on Environmental Assessment and Management

University of Aberdeen, Department of Geography

-----  
EM43            Diploma in Rural and Regional Resources Planning

University of Aberdeen, Department of Zoology

-----  
EM44            Diploma in Ecology  
EM45            Diploma in Environmental Science

University of Arizona

-----  
EM28            Sustainable Development of Dryland Regions: Planning and Management for Multiple Use  
MS17            Remote Sensing for Natural Resource Assessment

University of Birmingham

---

WR31            Diploma in Water Resources Engineering for Developing Countries

University of Bradford

---

IA02            Environmental Impact Assessment and Project Appraisal  
WR10            Water Supply and Sanitation Projects and Programmes

University of Georgia

---

WR43            Macroeconomic-based Water Resources Planning

University of Hawaii at Manoa

---

WR49            Soil Erosion, Watershed Management and Upland Farming Systems Approaches

University of Idaho

---

EM25            Land Use Planning for Community Forestry and Natural Resource Development  
EM50            Project Management for Natural Resource Professionals  
MS15            Introduction to Geographic Information Systems  
WM07            Program for Wildlife Preserve Managers

University of Miami

---

CM06            4th International Seminar on Coastal Parks and Protected Areas

University of Michigan

---

EM39            Certificate in Natural Resources Management  
FM18            9th International Seminar on Forest Administration

University of Nebraska, Lincoln

---

MS03            Introduction to Geographic Information Systems (GIS)  
MS04            Fundamentals of ARC/INFO  
MS07            Image Processing and Digital Analysis  
MS13            GIS and Remote Sensing for Water Resources  
MS14            Advanced Techniques in GIS

University of New Mexico

---

MS09            Image Processing of Satellite Data for Natural Resource Applications

University of Nottingham

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EM11            District Development Planning  
MS02            District Development Planning and Remote Sensing

University of Oklahoma

---

IA07            Environmental Impact Assessment  
IA10            Environmental Impact Assessment

University of Queensland

---

MS11 International Geographic Information Systems Training Program

University of Rhode Island

---

CM02 Integrated Coastal Resources Management

CM03 Summer Institute in Coastal Management

University of Tennessee

---

EM27 Management for Sustainable Natural Resource Development & Environmental Protection

IA09 Environmental Impact Assessment for Developing Countries

University of Wisconsin, Land Tenure Center

---

EM31 Land Tenure and Natural Resource Management Short Course

University of Wyoming

---

EM55 Agricultural and Natural Resources Inventory and Planning

EM56 Development and Management of Natural Resources for Tourism and Education

RE06 Natural Resource Economics

RE07 Environmental Economics

WM18 Fish and Wildlife Management

University of the Philippines

---

FM11 Social Research Design and Evaluation Studies in Community Forestry

FM13 Social Forestry Officers Development Course

FM16 Forestry Extension Officers Development Course

FM19 Forestry for Community Development

WR28 Watershed Resources Management and Conservation

Utah State University

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EM16 Outdoor Recreation

FM07 Silviculture for Non-Silviculturists

IA12 Economic, Social & Environmental Impact Assessment in Developing Countries

WM04 Wildlife Habitat Management

WM11 Using the Computer-based Physical Habitat Simulation System (PHABSIM)

WR29 Soil and Water Conservation and Management

WR44 Field Techniques for Instream Flow Assessment Methodologies

WR45 River Basin Hydrology

WR46 River Basin Planning

WR47 Surface Runoff Hydrology

WR48 Water Resources Systems Analysis

Washington State University

---

EM54 Microcomputer Applications for Natural Resources

RE08 Ecotourism Economics

RE09 Forest and Natural Resource Economics

WM17 Microcomputer Applications for Teaching Population Ecology

Water, Engineering and Development Center (WEDC)

---

SW01	Solid Waste and Environmental Management
SW05	Solid Waste Management
WQ03	Water Analysis and Quality
WQ14	Wastewater Treatment
WR04	Urban Water Supply
WR08	Community Water Supply and Sanitation
WR25	Microcomputers for Water Supply and Sanitation
WR26	Upgrading and Management of Urban Water Supplies
WR42	Streamflow Measurement and Introductory Hydrology

Wildlife Institute of India

---

WM03	Certificate Course in Wildlife Management
WM09	Post-graduate Diploma Course in Wildlife Management

Wolverhampton Polytechnic

---

EE01	Management of Training
EE04	Forestry and Agroforestry Training and Education
EE09	Certificate of Education
EE10	Diploma in Natural Resources Training and Education

Wye College, University of London

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IA06	Environmental Assessment and Management in Agricultural Development
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**ANNEX I**  
**INDIVIDUALS AND INSTITUTIONS CONTACTED**  
**DURING SURVEY**

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## ANNEX I

### Individuals and Institutions Contacted during Survey

\* Organizations with training opportunities listed in the directory.

\*\* Organizations which offer short-term training, but did not meet the criteria and/or categories for inclusion in the directory.

#### **Academy for Educational Development**

1255 23rd Street, NW  
Suite 400  
Washington, DC 20037  
PH: 202 262 1900  
FX: 202 862 1947  
TLX: ACADEW WSH  
John Helwig  
Martha Monroe

#### **African Development Fund**

PH: 202 673 3916  
Chris Fowles

#### **African Wildlife Foundation**

1717 Massachusetts Avenue, NW  
Washington, DC 20056  
PH: 202 265 8393  
FX: 202 265 2361  
Cynthia Jensen  
Program Liaison Officer

#### **Africare\*\***

Africare House  
440 R Street, NW  
Washington, DC 20001  
PH: 202 462 3614  
FX: 202 387 1034  
Kevin G. Lowther  
Regional Director,  
Southern Africa

#### **Alabama A&M University**

International Programs  
Carver Complex South, Rm. 104  
PO Box 1177  
Normal, AL 35762  
PH: 205 859 0436  
FX: 205 851 9157  
Orume Okezle

#### **Alcorn State University**

Agriculture Research and  
Applied Science  
Room 423  
PO Box 750  
New Administration Building  
Lorman, MS 39096

#### **Alliance for Environmental Education**

10751 Ambassador Drive  
Suite 201  
Manassas, VA 22110  
PH: 703 335 1025  
FX: 703 631 1651  
Thomas Benjamin

#### **American University of Cairo**

Science Department  
El Sheikh Rehan Street  
Cairo, Egypt  
PH: 20 2 357 5290  
FX: 20 2 355 7565  
Farkhanda Hassan

#### **American Water Foundation\*\***

1616 17th Street  
Denver, CO 80202  
PH: 303 628 5516  
FX: 303 628 5469

#### **Aniloch Graduate School**

Department of Environmental Studies  
103 Roxbury Street  
Keene, NH 03431  
PH: 603 357 3122  
FX: 603 357 0718  
Rick Van de Poll  
Core Faculty

#### **ANUTECH Pty. Ltd.\***

Forestry Division  
G.P.O. Box 4  
Canberra ACT 2601  
Australia  
PH: 61 6 249 0617  
FX: 61 6 249 5875  
Ken Shepard

#### **Arab Office of Youth and Environment (PVO)**

PO Box 2  
Magles El Shaab Street  
Cairo, Egypt  
PH: 20 2 363 8534  
FX: 20 2 355 1063  
Emad Adley  
Secretary General

**Arizona-Sonora Field School\*\***  
2201 North Indian Ruins Road  
Tucson, AZ 85715  
PH: 602 722 9798  
FX: 602 298 1538  
TLX: 825867  
Michael Palmbach

**ASEAN Institute of Forest Management**  
Suite 903  
IGB Plaza  
Jalan Kampar  
Kuala Lumpur, Malaysia  
PH: 60 3 4429251  
FX: 60 3 4422340  
Hashim bin Saad  
Director

**Asian Development Bank**  
Office of the Environment  
PO Box 789  
1099 Manila, Philippines  
PH: 63 2 711 3851  
FX: 63 2 741 7961  
J. Warren Evans  
Senior Environmental Specialist

**Asian & Pacific Development Centre**  
Pesaian Duta  
PO Box 12224  
50770 Kuala Lumpur  
Malaysia  
PH: 60 3 254 48088  
FX: 60 3 255 0316  
Professor Suk Bum Yoon  
Director

**Asia-Pacific Forum of Environmental Journalists**  
PO Box 1843  
1099 Manila  
Philippines  
PH: 63 2 522 4582  
FX: 63 2 522 4365  
Adlai J. Amor  
Chairman

**Asian Institute of Technology\***  
PO Box 2754  
Bangkok 10501  
Thailand  
PH: 66 2 516 0110  
FX: 66 2 516 2126  
TLX: 84276TH  
Howard Daugherty  
Coordinator  
Natural Resources Program

**Asian Wetland Bureau**  
Institute for Advanced Studies  
University of Malaya  
Lembah Pantai  
59100 Kuala Lumpur  
Malaysia  
PH: 60 3 757 2176  
FX: 60 3 757 1225  
Duncan Parish  
Executive Director  
(Mr.) Nasaruddin Rahman  
Training and Information Officer

**The Atlantic Center for the Environment\***  
39 S. Main Street  
Ipswich, MA 01938  
PH: 508 356 0038  
FX: 508 356 7322  
Jessica Brown  
Director, Inter-Regional Exchange and Policy

**Auburn University**  
International Programs  
209 Samford Hall  
Auburn, AL 36849  
PH: 205 844 5766  
FX: 205 844 4983  
Mason Marvel

**Australian Center for International Agricultural Research (ACIAR)**  
10 Moore Street  
Drake Center, 3rd Floor  
Canberra ACT 2601  
Australia  
PH: 61 6 248 8588  
FX: 61 6 257 3051  
George H.L. Rothschild  
Director

**Australian International Development Assistance Bureau (AIDAB)**  
Appraisals, Evaluation and Sectoral Studies Branch  
GPO Box 887  
Canberra ACT 2601  
Australia  
PH: 61 6 276 4009  
FX: 61 6 276 4626  
Bob Stensholt

**Australian Maritime College\*\***  
School of Fisheries  
Box 21  
Beaconsfield, Tasmania 7270  
Australia  
PH: 61 3 83 4404  
FX: 61 3 83 4766  
Michael King

**(Austria) Department for Development  
Cooperation**  
Federal Chancellery  
Ballhausplatz 2  
1010 Wien  
Austria  
PH: 43 1 531150  
FX: 43 1 531153619  
Peter Wilfling

**Belize Audubon Society**  
PO Box 282  
Belize City  
Belize  
PH: 50 12 44015  
FX: 50 12 74819  
Janet Patricia Gibson  
President

**Bermuda Biological Station for Research\***  
17 Biological Lane  
Ferry Reach GEO 01  
Bermuda  
PH: 809 297 1830  
FX: 809 297 8143  
Susan B. Cook  
Education Director

**Bicentennial Volunteers Inc.**  
400 W. Summit Hill Drive  
ET PA c/o TVA  
Knoxville, TN 39702  
PH: 615 632 8089  
FX: 615 632 8546  
Russel L. Allen  
Executive Director

**Biodiversity Support Program**  
1250 24th Street, NW  
Washington, DC 20037  
PH: 202 293 4800  
FX: 202 223 6971  
Bruce Leighty  
Kate Newman

**Brown University**  
Box 1943  
Providence, RI 02912  
PH: 401 863 3449  
FX: 401 863 3503  
Harold Ward  
Director

**California State Polytechnic University\***  
International Center  
3801 West Temple Avenue  
Pomona, CA 91768  
PH: 714 869 3992  
FX: 714 869 3282  
Darleen K. Stoner  
Professor, Environmental Education

**California State University, Chico\*\***  
Center for Regional & Continuing Education  
Chico, CA 95929-0250  
PH: 916 898 6105  
FX: 916 898 4020  
Debra Barger  
Director, Summer Session and  
Extension Programs

**Canadian International Development Agency  
(CIDA)**  
200, Promenade du Portage  
Hull K1A 0G4  
Quebec, Canada  
PH: 819 994 4654  
FX: 819 997 4762  
Phil Brady  
Senior Policy Advisor  
Policy & Programming Professional Services

**CARE**  
660 First Avenue  
New York, NY 10016  
PH: 212 686 3110  
FX: 212 696 4005  
Remko Vonk  
Director, Agriculture and Natural Resources

**Caribbean Conservation Association**  
Savannah Lodge  
The Garrison  
St. Michaels, Barbados  
PH: 809 426 5373  
FX: 809 429 8483  
David Simmons

**Caribbean Conservation Corps\***  
PO Box 2866  
Gainesville, FL 32602-2866  
PH: 809 426 5373  
FX: 809 429 8483  
Charles S. Luthin  
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**ANNEX II**  
**ADDITIONAL SOURCES OF INFORMATION**  
**ON SHORT-TERM TRAINING**

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**ANNEX II**  
**Additional Sources of Information on Short-term Training**

Canadian University Expertise in Environmental Education and Training in and for Developing Countries.  
This document is the result of a survey of Canadian universities undertaken in 1988. The report provides an overview of Canadian resources for developing countries' environmental education and training and profiles of selected Canadian universities. Published by: Canadian International Development Agency, Natural Resource Division, Environment Sector, 200 Promenade du Portage, Hull Quebec, Canada K1A 0G4.

Chronological Schedule of Air Pollution Training Courses, January 1992 through December 1992.  
This catalog lists over 30 short courses ranging from one to five days both in lecture and laboratory formats. Subject areas include: engineering and enforcement; air toxics, hazardous wastes, air quality management, meteorology and modelling; sampling and analysis; and mobile sources. Published by: U.S. Environmental Protection Agency, Air Pollution Training Institute, MD 17, Environmental Research Center, Research Triangle Park, NC 27711, USA, PH: 919 541 2497.

Environmental Training Green Pages Referral Directory 1991-1992.  
This annual directory lists certified environmental trainers and training firms in the United States. Trainers are primarily skilled in the areas of waste management and hazardous materials safety. Published by: National Environmental Training Association, 2930 East Camelback Road, Suite 185, Phoenix, AZ 85016, USA, PH: 602 956 6099, FX: 602 956-6399.

Global Non-Degree Training Opportunities in Agriculture, June 1991.  
The directory is published on a bi-annual basis and lists over 1000 opportunities in a wide range of agricultural related fields, including many in environment and natural resources management. Topics include: irrigation, project management, sustainable development, livestock production, computer applications. A considerable number of "on demand" opportunities are listed from institutions in the United States, as well as developing countries. Published by: Winrock International, Morrilton, AK, USA. Available from: Winrock International, Agribookstore, 1611 N. Kent Street, Arlington, VA 22209-2134, USA, PH: 703 525 9430, FAX: 703 525 1744.

INRES Training Data Base.  
As part of the United Nations Development Program's effort to foster cooperation among developing countries, an extensive data base has been developed which lists training capabilities and course offerings in developing countries. Much of the training offered is in-service training for government employees, but there are a considerable number of institutions and research centers listed, as well. The data base can be accessed by filling out a standard questionnaire. A print-out is compiled of institutions which offer training to match the needs outlined in the questionnaire. Information available from: UNDP-INRES, 1 United Nations Plaza, New York, NY 10017, USA, PH: 212 906 5000.

International Directory of Institutions Active in the Field of Environmental Education, 1989.  
This is a world-wide directory of institutions active in the field of environmental education. The directory provides contact information, fields of interest, function, and target audiences for each listed organization. Indexes according to functions and focus allow reader to search for institutions active in training. Published by: UNESCO, Environmental Education Section, Division of Science, Technical and Environmental Education, 7 Place de Fontenoy, 75700 Paris, France.

Profiles of U.S.A. Natural Resource Schools: International Programs at National Association of Professional Forestry Schools and Colleges (NAPFSC) Member Institutions.  
The report published by the Forestry Support Program in 1990 outlines the educational, research and extension resources concerning international forestry that U.S. forestry schools have to offer U.S. and foreign students. Published by: Forestry Support Program, International Forestry Staff, PO Box 96090, Washington, DC 20090, USA, PH: 202 453 9589, FX: 202 453 3603.

SECID Training Capabilities in Environment/Natural Resources.

Draft document. This manual provides a comprehensive overview of the types of education and training programs available at the member institutions of SECID, the South-East Consortium for International Development. The document reviews the focus of each institution, degree offerings, short-term training opportunities and on-going research at each of the 30 land grant colleges and the research institute belonging to SECID. Published by: South-East Consortium for International Development, 1510 K Street, NW, Washington, DC, 20036, USA, PH: 202 628 4551, FX: 202 628 4561.

Short Term Training Courses Offered by Universities of the Consortium for International Development, 1992.

The directory lists over 250 short courses which have specific relevance to developing country situations and many in the field of environment and natural resources. Course topics include: health, agriculture, water resources, administration, intensive English language training, engineering, computer science, and urban development. The CID consortium is comprised of 11 state and land grant universities and colleges in the western U.S. Published by: CID, 6367 East Tanque Verde, Suite 200, Tucson, Arizona, 85715-3832, USA, PH: 602 885 0055, FX: 602 886 3244.

Urban Environmental Training Courses: A Compendium of Programs around the United States.

This directory developed by the International City Managers Association (ICMA) for the U.S. Agency for International Development Office of Housing and Urban Programs lists seminars and short courses offered by U.S. universities and accreditation courses offered by U.S. professional associations. The focus of the directory is air and water quality, hazardous and solid waste management and energy conservation. Published by: ICMA, 777 N. Capitol Street, NE, Washington, DC 20002-4201, USA, PH: 202 289 4262, FX: 202 962 3500.