

PD-ABQ-607

98165

# SUMMARY REPORT OF THE FORESTRY SUPPORT PROGRAM (FSP) 1986-1989



**United States  
Department of  
Agriculture**

Forest Service



**United States Agency  
for International  
Development**



**United States  
Department of  
Agriculture**

Office of  
International  
Cooperation and  
Development

Washington, DC

The Forestry Support Program (FSP) is managed jointly by the US Department of Agriculture's Forest Service and Office of International Cooperation and Development (OICD), with funds provided by the US Agency for International Development (USAID) Bureau for Science and Technology (S&T) through its Office of Forestry, Environment and Natural Resources (FENR)

## Preface

---

This USDA Forest Service report to the U S Agency for International Development (USAID) constitutes an end-of-project summary of the Forestry Support Program's (FSP) accomplishments. At the request of USAID, this report focuses on the period 1986–1989, an earlier multiyear review covers 1981–1985. The report contains new 1989 information that has not previously been published, it summarizes results of the formal end-of-project evaluation carried out by USAID in 1989. In addition to recording past activities,

the report aims to enhance USAID relationships with both the Forest Service and its Office of International Cooperation and Development for implementing USAID's Environment and Natural Resources Strategy throughout the remainder of this century. The time is now for revitalizing FSP to address emerging opportunities as USAID central bureaus and country missions worldwide strive to meet new congressional mandates to assist various countries in managing their tropical natural resources.

# Contents

---

<b>Preface</b>	<b>iii</b>
<b>List of Abbreviations</b>	<b>vii</b>
<b>Executive Summary</b>	<b>ix</b>
<b>Chapter 1</b>	
<b>Technical Consultations</b>	<b>1</b>
Illustrative Consultations for 1989	5
Latin America and the Caribbean	5
Asia and the Near East	5
Africa	6
Outlook	6
<b>Chapter 2</b>	
<b>Roster Development and Referrals</b>	<b>7</b>
Roster Maintenance and Promotion	7
Referrals	8
Roster Workshop	9
Outlook	9
<b>Chapter 3</b>	
<b>Forestry Program Studies and Technical Reference Services</b>	<b>11</b>
Forestry Activities Supported by USAID	11
Other Forestry Contracts	11
Technical Reference Services	14
Communications in 1989	14
Technical Support to Research	15
Outlook	15
<b>Chapter 4</b>	
<b>Training</b>	<b>17</b>
Training Strategy	17
Liaison and Technical Assistance	17
Training Courses and Materials in 1989	18
Regional Tree Seed Technology Course, Kenya	18
Educating Forestry Technicians	19
Agroforestry Sourcebook	19
1989 FSP Training Fellowships	19
Outlook	21
<b>Chapter 5</b>	
<b>The Forestry Private Enterprise Initiative</b>	<b>23</b>
Market Development Activities	23
Ecuador Accomplishments	23
Follow-up Activities in Ecuador	24
Guatemala Accomplishments	24
Follow-up Activities in Guatemala	25
Research Activities	25
Administration Activities and Outlook	25

<b>Chapter 6</b>	
<b>The Forestry-Agriculture Initiative</b>	<b>27</b>
Mission and Bureau Support	27
Agroforestry Training	28
Networking Activities	28
Documents and Reports	28
Outlook	29
<b>Chapter 7</b>	
<b>Forestry Supported by Food Aid and Voluntary Organizations</b>	<b>31</b>
Areas of Concentration	31
Outlook	33
<b>Chapter 8</b>	
<b>Social Forestry</b>	<b>35</b>
Backstopping F/FRED	35
F/FRED's Curriculum Activity	36
<b>Chapter 9</b>	
<b>Evaluation Results</b>	<b>37</b>
FSP Accomplishments and Impacts	37
Management and Staff Evaluation	37
FSP Functions	37
Relations Between USAID Natural Resources Projects	38
Emerging Development Assistance Programs	38
Outlook	38
<b>Appendix A</b>	
<b>Profiles of Current FSP Staff</b>	<b>41</b>
<b>Appendix B</b>	
<b>FSP Overseas Technical Consultations by Region, Fiscal Years 1986–1989</b>	<b>45</b>
<b>Appendix C</b>	
<b>FSP Roster Use</b>	<b>57</b>
<b>Appendix D</b>	
<b>FSP Brown-Bag Seminars</b>	<b>71</b>
<b>Appendix E</b>	
<b>Reports Produced or Directly Influenced by FSP, Fiscal Years 1986–1989</b>	<b>75</b>
<b>Appendix F</b>	
<b>Timeline</b>	<b>85</b>

## List of Abbreviations

---

AIMA	Association of Wood Industries of Ecuador (translated)
ANE	Bureau for Asia and the Near East
ANE/TR/ENR	Bureau for Asia and the Near East Technical Resources/Energy Natural Resources
ARDA	Adventist Relief Development Agency
BOSTID	National Academy of Sciences Board on Science and Technology for International Development
CATIE	Center for Tropical Agricultural Research and Training (translated), Costa Rica
CIDA	Canadian International Development Agency
CIDE	Center for International Development and Environment
CORMADERA	Center for Technical Support to Wood Products and Furniture Industries of Ecuador (translated)
CRS	Catholic Relief Services
CUMAT	Center for Investigation of Land Use Capability of Bolivia (translated)
DANIDA	Danish International Development Agency
DASP	Forest Service Disaster Assistance Support Program
DEFIL	Development Strategies for Fragile Lands Project
DIGEBOS	Dirección General de Bosques y Vida Silvestre
ESNACIFOR	Escuela Nacional Ciencias Forestales
FAO	Food and Agricultural Organization of the United Nations
FENR	Office of Forestry, Environment and Natural Resources
FEPROTUR- NATURALEZA	National Nature Tourism Agency, Ecuador
F/FRED	Forestry/Fuelwood Research and Development Project
FLAG	Fragile Lands Advisory Group
FPEI	Forestry Private Enterprise Initiative
FRM	Forest Resource Management Project
FRM II	Forest Resource Management Project (follow-up project)
FSP	Forestry Support Program
FVA	Food Aid and Voluntary Assistance
GIS	Geographic information system
HBCU	Historically Black Colleges and Universities
ICRAF	International Council for Research in Agroforestry, Kenya
ICT	International Computers and Telecommunications, Inc
IMCC	Interamerican Marketing Corporation
INFORDE	Private Forestry Initiative for Development (translated), Ecuador
INSOTEC	Institute for Socioeconomic and Technological Research (translated), Ecuador
ISEC	USDA OICD International Science and Education Council
ISTF	International Society of Tropical Foresters
ITTO	International Tropical Timber Organization
IUCN	International Union for Conservation of Nature and Natural Resources
IUFRO	International Union of Forestry Research Organizations
KENGO	Kenya Energy Non-Government Organization
LWR	Lutheran World Relief
MPTS	Multipurpose tree species
MTA	Market and Technology Access Project
NAFC	North American Forestry Commission
NAPFSC	National Association of Professional Forestry Schools and Colleges
NFTA	Nitrogen Fixing Tree Association
NGO	Nongovernmental organization
NRMS	Bureau for Africa Natural Resources Management Support Project
OAS	Organization of American States
OFDA	Office of U S Foreign Disaster Assistance
OICD	Office of International Cooperation and Development
OTS	Organization for Tropical Studies, Costa Rica

OTS	Organization for Tropical Studies, Costa Rica
PID	Project Implementation Document
PPC	Bureau for Program and Policy Coordination
PVO	Private voluntary organization
RD	Office of Rural and Institutional Development
RENARM	Regional Natural Resource Management Project
ROCAP	Regional Office for Central America Programs
RSSA	Resources Support Services Agreement
SCFER	Southeastern Center for Forest Economics Research
S&T	Bureau for Science and Technology
SMSS	Soil Management Support Services
STC	Save the Children
TFAP	Tropical Forestry Action Plan
TRD	Tropical Research and Development
USAID	U S Agency for International Development
USDA	U S Department of Agriculture
WWF	World Wildlife Fund

# Executive Summary

The Forestry Support Program (FSP) strives to reduce forest and natural resource deterioration, which threatens the rural poor, and sustains forest resources around the world. To achieve these goals, FSP provides technical assistance in forestry and related natural resources management to the U.S. Agency for International Development (USAID) and the Peace Corps.

The Office of Forestry, Environment and Natural Resources of the USAID Bureau for Science and Technology (S&T/FENR) primarily funds FSP. The funding mechanism is a Resources Support Services Agreement (RSSA) between USAID and the USDA's Office of International Cooperation and Development (OICD). The USDA Forest Service manages the program in close cooperation with OICD and S&T/FENR. FSP is guided by USAID's Environment and Natural Resources Policy (1988) and the earlier Forestry Sector Strategy (1984) and Forestry Policy and Programs (1983).

Actions undertaken on behalf of USAID broadly support the 1985 Tropical Forestry Action Plan (TFAP), a multidonor-backed strategy to maintain the world's tropical forests and to realize their full potential as instruments for rural development.

This summary progress report for 1986-1989 is structured around specific FSP objectives, as determined in the USAID Forest Resources Management Project (FRM) and its subsequent amendments. Each chapter highlights FSP activities during that period and focuses on 1989. A concluding chapter summarizes the results of the 1989 FRM Final Evaluation.

FSP has carried out its role through a number of support activities.

## Technical Consultations

FSP has provided USAID regional bureaus and field missions with technical advice and project design assistance in tropical forestry, biological diversity, and conservation of natural resources. Highlights since 1986 include assistance in designing USAID projects in Niger, Nepal, Honduras, Tunisia, Thailand, and Haiti, project evaluations in Burkina Faso, Sudan, Haiti, and Nepal, biodiversity and tropical forestry assessments in Morocco and Botswana, and special studies on contract reforestation in the Philippines, on the *Leucaena* psyllid in the Asia-Pacific region, and on improved cocoa management practices in Grenada.

## Roster Development and Referrals

FSP has designed and maintained a much emulated international skills roster of forestry and natural resource management experts. The roster identifies qualified individuals for assignments overseas with USAID or such collaborators as the Peace Corps, the World Bank, and the Food and Agriculture Organization of the United Nations (FAO). The intensively managed roster has been fully computerized and updated regularly. It is considered a model system by both public- and private-sector organizations. A workshop of roster managers, held in Washington, D.C., attracted representatives of 28 organizations to exchange information and explore opportunities for inter-roster cooperation.

## Forestry Studies and Technical Reference Services

Since its inception, FSP has monitored, with increasing sophistication and accuracy, the agency-wide forestry and natural resources management portfolio of USAID. In 1986, the ARAWAK Consulting Corporation, under FSP contract through OICD, generated data bases on projects in that portfolio, on private-sector projects with forestry potential, and on direct hire and contract personnel involved in USAID's forestry work. The survey was updated later by IDEA, Incorporated, and is currently contracted to International Computers and Telecommunications (ICT).

The information provides a basis for the USAID *Report to Congress on Biological Diversity and Tropical Forests*. In fiscal years 1988 and 1989, USAID was funding about 160 forestry projects worldwide and planning an additional 23. Total expenditures in fiscal year 1989 on forestry projects totaled approximately \$70 million. In fiscal years 1988 and 1989, USAID funded 68 biodiversity projects, half of which had forestry overlap. Total fiscal year 1989 expenditures on biodiversity projects was \$17.1 million. The dynamic nature of USAID projects causes the material to be quickly dated, but the survey provides USAID and other donor agencies and international organizations useful, up-to-date information about USAID-assisted forestry and natural resources efforts.

Throughout this period, FSP sponsored 79 brown bag seminars in a continuing effort to inform the

Washington, D C forestry and development community on the progress of field projects FSP also produced and distributed FSP Quarterly Memos to more than 600 individuals worldwide and maintained monthly contact with USAID missions and contractors and key OICD and Forest Service staff through the monthly FSP Periodic Report

FSP supports USAID forestry research efforts by reviewing projects and proposals, identifying investigators to cooperate with such efforts, funding a limited number of research activities, advertising and promoting research workshops, reviewing reports, and disseminating research results During 1986–89, FSP provided the International Union of Forestry Research Organizations (IUFRO) with a portion of the resources necessary for regional workshops in Kenya on forestry research in Africa's Sahelian-Sudanian climatic zone and in Peru on the role of multipurpose forest species in the life of rural communities

## Training

FSP prepares an Annual Training Strategy, following consultations with all primary USAID bureau contacts, and the FSP geographical coordinators The strategy focuses on how FSP can provide assistance to missions and regional offices in designing, implementing, and evaluating their natural resources training activities FSP develops training materials, conferences, and courses It also serves to link USAID missions, the National Association of Professional Forestry Schools and Colleges (NAPFSC), and Historically Black Colleges and Universities (HBCU)

FSP has awarded more than 40 fellowships to USAID-selected participants in international training activities, such as the International Seminar on Forest Administration and Management, the Alley Cropping Workshop in Nigeria, the Central American Seminar on Tropical Forests in Honduras, the Workshop on Nitrogen Fixing Trees for Agroforestry in the Humid Tropics in the Philippines, and others FSP also cosponsored the Conference on Management of the Forests of Tropical America in Puerto Rico, the International Conference on Educating Forest Technicians at Paul Smith's College in New York, and the Regional Tree Seed Technology Training Course for East Africa in Kenya

## Forestry Private Enterprise Initiative

The Forestry Private Enterprise Initiative (FPEI) spearheads FSP's efforts to increase income and employment from forests in developing countries by mobilizing the funds and talents of public and private partners FPEI consists of a market development demonstration effort in Guatemala (previously based in Ecuador), a research component, and an administrative unit Work in Ecuador focused on institutional strengthening, education and training, domestic market development, and export development The market development component of FPEI was transferred by USAID to the Market and Technology Access Project (MTAP) at the end of 1989, to enable broader contacts with the US business community and to permit "buy-ins" by USAID missions The research component of FPEI produced over 40 working papers during 1986–89 on a wide variety of topics The most recent focus areas were agroforestry economics in coastal Ecuador, international comparative advantage in wood products, efficiency and employment in Ecuador's wood industries, timber pricing policies in Latin America, and nature tourism

## Forestry-Agriculture Initiative

The Forestry-Agriculture Initiative became operational in 1986 to provide technical assistance to USAID field projects, to develop courses and materials for in-country agroforestry training, and to provide linkages between agroforesters and relevant institutions worldwide Examples of completed work include studies on the agroforestry potential of cocoa in Central America, a paper on buffer zone agroforestry in tropical forest regions, and an abstract bibliography of selected agroforestry articles In association with the Organization for Tropical Studies (OTS) and the Center for Tropical Agricultural Research and Training (CATIE) in Costa Rica, FSP conceptualized and underwrote the printing of a Spanish training manual—*Sistemas Agroforestales Principios y Aplicaciones en los Tropicos*

## **Food Aid and Voluntary Assistance**

FSP not only continues to encourage agency recognition of food aid-supported forestry, but also actively provides technical assistance to an increasing number of food aid-supported natural resources activities worldwide. Special attention is given to increase the ability of U.S. private voluntary organizations, other nongovernmental organizations, and the Peace Corps to use food aid to support their natural resource management goals. FSP helped the Peace Corps and USAID organize Food Aid and Natural Resources Programming Workshops in Kenya and Guatemala and has helped design and evaluate various USAID food aid-assisted projects overseas.

## **Social Forestry**

In 1987, the USAID S&T Office of Institutional and Rural Development entered into an RSSA with OICD to establish specific in-house expertise within FSP to address social forestry issues. The primary purpose of

the position was to backstop social science activities of the Forestry/Fuelwood Research and Development Project (F/FRED) by enhancing awareness of the integral role that local people play in all aspects of forestry. The FSP Social Forestry Coordinator prepared agency briefings on F/FRED, helped design an innovative social forestry curriculum for use in Asia, and contributed to F/FRED regional workshops in Thailand, Pakistan, and Nepal.

## **FSP Evaluation**

An evaluation of FRM, titled "The Greening of AID 1980-1990," was prepared in 1989 by Tropical Research and Development, Incorporated, under a USAID contract. The review team assessed the accomplishments, impacts, management, and staff functions associated with FRM. The evaluation also addressed USAID's most likely future directions and anticipated development assistance support needs; it concluded that FSP should be continued and enhanced.

## Chapter 1 Technical Consultations

Providing forestry and natural resources assistance to developing countries is a major component of the Forestry Support Program (FSP). The core staff of FSP consists of individuals with a variety of geographic and technical expertise who advise on the conception, design, implementation, and evaluation of U.S. Agency for International Development (USAID) projects. The geographic coordinators provide hands-on assistance to their region while also providing information to long-term and short-term USAID advisors. Other technical staff includes a forestry/agriculture coordinator, a training and education coordinator, a social forester, and a food aid and voluntary assistance coordinator who provide services worldwide. (For a complete list of FSP staff and qualifications, see Appendix A.)

In addition to FSP staff, numerous qualified advisors can be identified through the FSP roster of forestry and natural resource experts. The roster identified potential advisors for 160 positions in 1989, 147 in 1988, 137 in 1987, and 133 in 1986 (Figure 1-1). The candidates are identified based on their language skills, experience, education, and technical expertise. (See Chapter 2 for more information on the FSP roster.)

The requesting USAID mission usually provides funding for technical consultations. FSP funds some consultations in countries where USAID funding is limited. The majority of FSP's assistance is technical. FSP staff members are available for short-term assign-

ments and coordinate the identification and preparation of consultants for short-term and long-term assignments.

More than 35 countries received onsite assistance from FSP during 1986-1989. Figures 1-2, 1-3, and 1-4 show these countries and demonstrate the significant impact from FSP activities during fiscal year 1989. The maps reflect USAID geographical designations. For example, the USAID Bureau for Asia and the Near East (ANE) administers Morocco and Tunisia. Appendix B provides details on these advisors and their assignments. The maps and Appendix B reflect only consultations that FSP completely or partially funded; they do not include assignments by individuals identified by FSP but funded entirely by USAID missions, the World Bank, the Peace Corps, or other institutions. A few of the consultations occurred at conferences and workshops held in countries without a USAID mission, but most assistance directly supported specific project activities of USAID missions.

The number of overseas consultations has varied over the years. In 1989, FSP assisted with 31 in Latin America and the Caribbean, 9 in Asia and the Near East, and 10 in Africa. During 1986-1989, FSP participated in 159 consultations in Latin America and the Caribbean, 42 in Asia and the Near East, and 36 in Africa. Many of the Latin American consultations are associated with the Forestry Private Enterprise Initiative (FPEI) and account for the great increase of consultations in 1988.

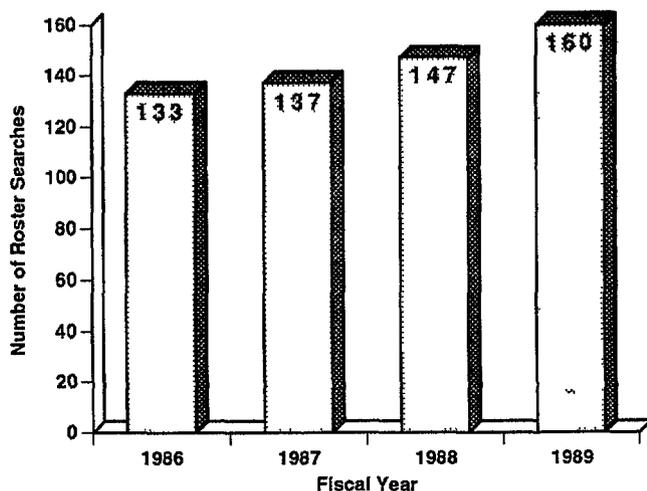


Figure 1-1 Total roster searches per year 1986-1989



Kathryn Hunter, FSP's Coordinator for Latin America and the Caribbean, assists a group of Guatemalans in a forestry project. (J.M. Kramer)



Figure 1-2 Technical consultations provided by FSP in Latin America and the Caribbean, FY 1989

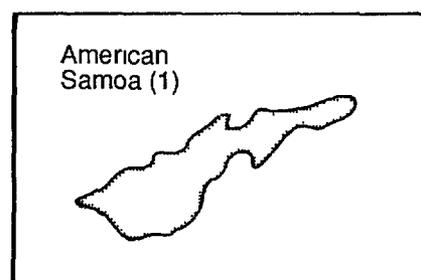
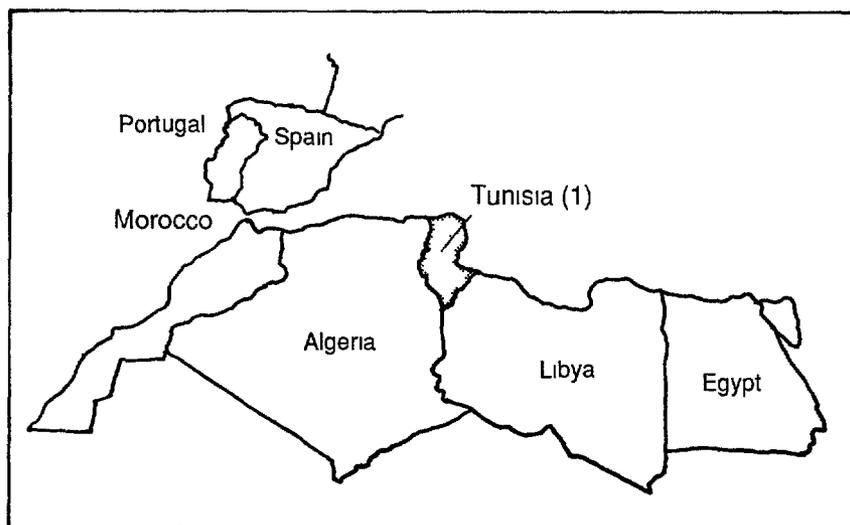


Figure 1-3 Technical consultations provided by FSP in Asia and the Near East, FY 1989



Figure 1-4 *Technical consultations provided by FSP in Africa FY 1989*

---



*Charcoal is stacked along the roadsides in Mexico in the areas where FSP participated in an environmental assessment of a World Bank charcoal production project (T O Rourke)*

## **Illustrative Consultations for 1989**

### **Latin America and the Caribbean**

In 1989 FSP consultations in Latin America and the Caribbean included the following

- The FSP Coordinator for Africa traveled to Haiti for two 1-month assignments to evaluate the Agroforestry Outreach Project and plan the follow-on project
- The FSP Coordinator for Latin America and the Caribbean represented USAID and the Forest Service at a regional conference for associate Peace Corps directors in natural resources education and training. The workshop, held in Belize, looked at the possibilities for incorporating environmental education into the training programs of incoming Peace Corps volunteers
- The FSP Special Projects Coordinator evaluated the environmental impacts of a World Bank charcoal production project in Mexico at the request of USAID/Mexico
- FSP provided the funding for a Forest Service facilitator to travel to Honduras and moderate a meeting on environmental education in association with the USAID Forestry Development Project

### **Asia and the Near East**

Among other activities, FSP consultations in Asia and the Near East included the following

- FSP, the USDA Forest Service, and USAID/Thailand co-funded the activities of a Forest Service forest geologist who worked as part of a five-person disaster mitigation and resource restoration team in southern Thailand. The team assessed damage, risks, opportunities for mitigation, and possibilities for restoration interventions in areas affected by the floods and landslides of 1988
- The FSP Coordinator for Asia and the Near East participated in the International Seminar on a National Forest Policy for Pakistan, held in Karachi. FSP also coordinated the participation of the Associate Chief of the Forest Service and a USDI Bureau of Land Management District Manager in the seminar. USAID/Pakistan paid the travel expenses of the participants
- At the request of the USAID Regional Development Office for the South Pacific, the FSP Forestry/Agriculture Coordinator participated in a technical meeting of the USAID-funded South Pacific Coconut By-Products Manufacturing Facility Feasibility Study in American Samoa. He presented a report on alternative uses, processing, and markets for non-edible coconut palm products



*At the request of USAID missions FSP provides technical assistance for forestry and natural resources projects (T O Rourke)*

## Africa

Consultations in Africa included the following

- A Forest Service geologist from the Southern Forest Experiment Station visited USAID/Zambia to advise on seed handling of the nut of the mungongo (*Ricinodendron rautanenii*) for extracting the kernels for oil production
- FSP conceptualized the tree seed technology course that was held in Kenya for experts in East Africa. FSP funded three consultants and several of the participants
- The FSP Coordinator for Food Aid and Voluntary Assistance led the final evaluation of the Burkina Faso Southwest Regional Reforestation Project implemented by AFRICARE

## Outlook

FSP will continue to work with USAID missions by providing short-term technical assistance and assisting in the identification of short and long-term consultants. FSP core staff will continue to spend 20 to 25 percent of their time in the field offering hands-on experience and assistance to USAID missions.

FSP anticipates that the demand for consultants will increase in fiscal year 1990 and that there will be an increase in demands for natural resource economists, agroforesters, watershed managers, and social foresters. An increase in demand for specialists in parks management, biodiversity, and wildlands preservation also is anticipated.

The actual number of consultations funded by FSP may decrease in fiscal year 1990 because of the reduction in funding for FPEI, which was based in Ecuador and is now located in Guatemala. The FSP core staff will continue to provide the same level of quality technical expertise as the project draws to a close.

## Chapter 2

# Roster Development and Referrals

---

The roster is a computerized listing of forestry and natural resource professionals used to fill short-term and long-term technical assignments for development agencies. The roster, which began in the early 1980's as a box of file cards, has evolved into a computerized system of detailed personnel data.

The roster continues to be the primary source of qualified forestry and natural resource professionals for USAID missions and bureaus for short-term and long-term assignments. The roster is used not only on behalf of USAID directly, but also on behalf of close USAID cooperators, such as the Peace Corps, the World Bank, and the United Nations Food and Agriculture Organization (FAO). Conservation groups, such as the World Wildlife Fund, and U.S. Government agencies, such as the Forest Service, can access the roster to identify qualified persons to implement USAID-funded activities or others carried out in close cooperation with USAID.

### Roster Maintenance and Promotion

Frequent updates to the roster keep it functioning efficiently and help ensure up-to-date information. Roster participants are annually mailed a summary of their biographical data. They must return the summary data sheet along with a simple request form to remain on the roster. Currently, the roster files contain biographical data on more than 2,600 forestry and natural resource professionals.

The number of roster registrants has remained relatively stable during the past 3 years. Minor increases and decreases have been associated with recruitment and purges.

Recruitment efforts during 1989 included the following:

- A complete revision of the roster packet, including the roster application and code sheet, was performed on Office Publisher.
- A Forest Service-wide and Bureau of Land Management-wide announcement of the FSP roster will run continuously through fiscal year 1990.
- FSP staff gave presentations at several conferences, university seminars, and symposia.
- Specialty areas lacking in the FSP roster were identified, and a plan was formed to boost the roster in those areas.
- USAID future professional needs were identified to increase recruitment in those areas.

The portable FSP display that promotes involvement in international forestry and the FSP roster was designed in 1987-88. It highlights some of the activities of FSP and USAID. Thousands of potential roster applicants throughout the country saw this colorful display. The following is a list of conferences at which it was displayed in fiscal year 1989.

- "Healthy Forests, Healthy World," Society of American Foresters Annual Convention, Rochester, New York, October 16-19, 1988
- "Natural Resources for the 21st Century," American Forestry Association, Washington, D.C., November 14-17, 1988
- USDA Forest Service, Research Family Meeting, Arlington, Virginia, December 21, 1988
- "The United States and the Third World: Building the Future as It Ought to Be," 1989 International Development Conference, Washington, D.C., February 20, 1989
- Resources Fair, U.S. Agency for International Development, USDA Office of International Cooperation and Development, Arlington, Virginia, June 14, 1989
- "Inventing Peace," Annual Meeting of the National Council of Returned Peace Corps Volunteers, Kent, Ohio, July 21-23, 1989
- "Tree Cheers for Arboriculture," International Society of Arboriculture Convention, St. Charles, Illinois, August 12-17, 1989
- "Forestry on the Frontier," Society of American Foresters Annual Convention, Spokane, Washington, September 23-27, 1989



*The FSP roster is used to identify consultants whose projects have led to reforestation of harvested areas (T. O'Rourke)*

The roster consists of individuals who offer varied talents and qualifications. The following is a breakdown by specialty field of the current roster registrants.

148	agriculture	36	horticulture
611	agroforestry	129	hydrology, irrigation, meteorology
47	agronomy	88	international affairs, political science
89	anthropology	386	land-use planning, environmental assessment
210	arid zone forestry	1	library science
43	aviation	85	mapping
71	biological diversity	115	marketing, trade
81	biology	229	mensuration, inventory, biometrics
105	business administration	51	natural forest management, regeneration
106	botany, plant science	439	natural resources management
17	charcoal	221	nursery establishment, management
17	coastal resources, wetlands	203	parks, wildlands management
99	communications, public relations	47	pathology
137	computers, data processing	14	pesticides, toxicology
128	cooperatives, rural development	56	physiology, chemistry
102	disaster management	341	plantation establishment, management
270	economics	233	policy and institutions
213	education	15	pulp/paper
40	emergency coordination	124	range management/livestock
21	emergency medical services	134	remote sensing, photogrammetry
118	energy	74	road construction and planning
122	engineering	62	sawmills and planing mills
82	entomology	19	search and rescue
546	environment, ecology	14	secondary forest products
14	environmental law, legislation	35	seeds, orchards
184	fire management	351	silviculture
48	fisheries, marine resources	153	sociology, land tenure
5	food aid programming	178	soil science
1,006	forest management	134	tree improvement, genetics
205	forest products, wood utilization	33	urban forestry, landscape architecture
17	furniture and parts	398	watershed management, soil conservation
66	geography, geographic information system (GIS)	196	wildlife management, zoology
39	geology	40	windbreaks, shelterbelts
169	harvesting	175	writing/editing

## Referrals

USAID missions and bureaus use the roster when identifying qualified professionals to design, implement, and evaluate its forestry and natural resources projects. The roster also identifies candidates for positions with USAID contractors and cooperators, such as the Peace Corps, FAO, the World Bank, World Wildlife Fund, the Nitrogen Tree Fixing Association, CARE, the Conservation Foundation, the International Tropical Timber Organization (ITTO), and others.

FSP ran 577 searches during 1986–1989 (see Appendix C). The most commonly requested skills were agroforestry, watershed management, natural resource economics, and natural resource management.



*The most frequently requested skill from the roster is for watershed managers who propose soil conservation techniques and other soil/water-related solutions (FAO)*



*Agroforestry is another frequently requested skill where foresters and agronomists combine their knowledge to use land more efficiently (S Huke)*

In addition to direct referrals of advisors for USAID projects, FSP alerted hundreds of roster registrants to job vacancies with cooperating organizations by mailing notices of long-term international positions to potential applicants with appropriate skills

## Roster Workshop

In 1988, FSP, in cooperation with OICD and the Forest Service Disaster Assistance Support Program (DASP), organized a workshop for managers of natural resources and disaster management rosters. Forty individuals participated, representing 28 organizations, including Government agencies, private voluntary organizations, professional societies, universities, consulting firms, and consortia. The workshop provided a forum to discuss roster development and maintenance and to explore opportunities for inter-roster cooperation.

## Outlook

The roster continues to be intensively used. To maintain the current level of efficiency and to supply USAID with the most appropriate consultants, the roster is constantly evaluated. USAID plans proactive recruitment to expand the roster in fields of emerging needs. Future outreach to potential roster candidates include roster display at conferences, advertising in forestry and forestry-related journals, magazines, and newsletters, letters and invitations to government employees in other agencies with needed skills to join the roster, information on joining the roster in Peace Corps "exit packets" for all natural resources volunteers, and more visibility of International Forestry and the Forestry Support Program in Forest Service activities.



*Fuelwood experts can be identified on the roster to assist in USAID forestry- and natural resource-related projects (World Bank)*

## Chapter 3 Forestry Program Studies and Technical Reference Services

### Forestry Activities Supported by USAID

FSP undertakes various forestry studies on behalf of USAID through contracts issued by OICD. Several current examples and FSP research efforts are described below. This chapter also discusses related reports and seminars in which results are disseminated and USAID field missions are informed.

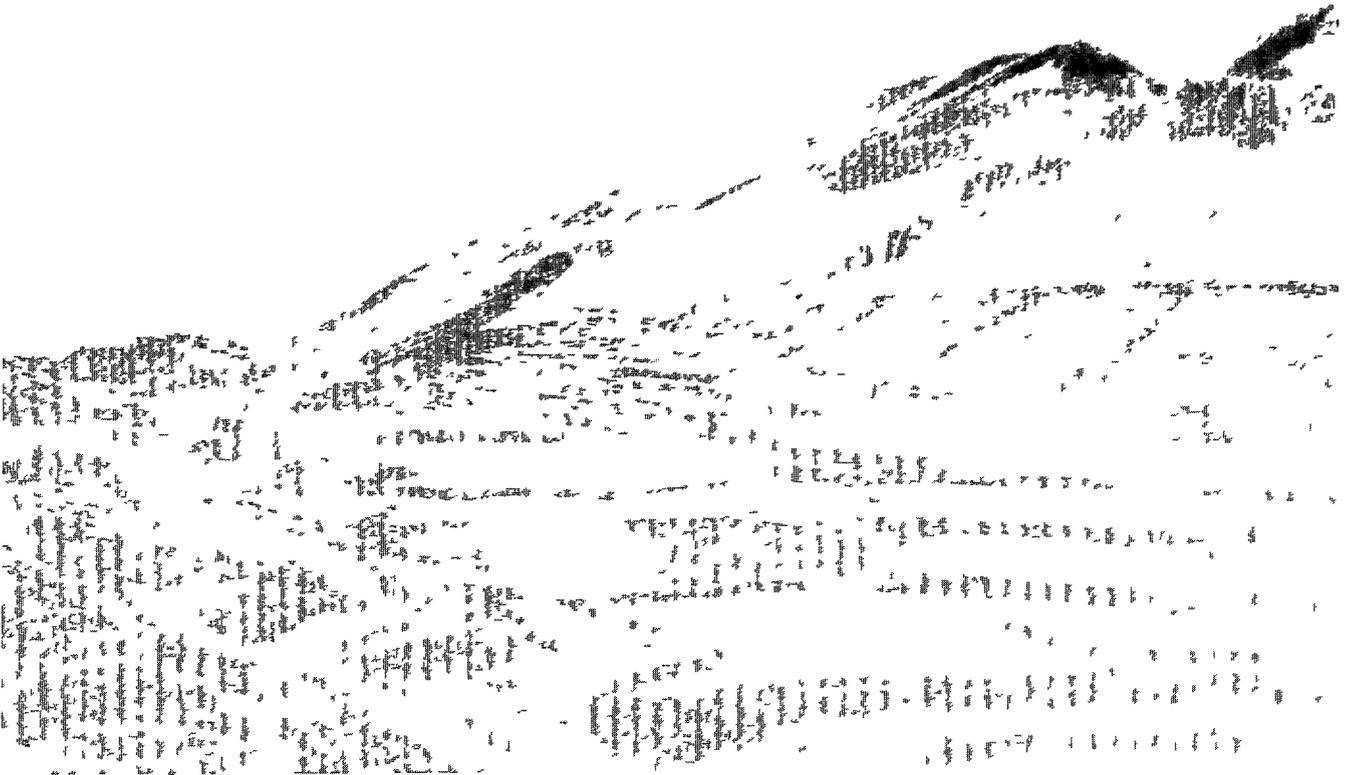
In 1986, OICD entered into a contract on behalf of FSP and FENR that developed a forestry and natural resources data base. The information gathered in these reports is used to evaluate levels of involvement and effectiveness in forestry development. The 1986 contract was with ARAWAK Consulting Corporation, followed by a contract in 1987 with IDEA, Inc.

The contractor International Computers and Technology (ICT) currently tracks and reports forestry and biodiversity activities (see Figures 3-1 and 3-2). This in-depth comprehensive study began in July 1989 and

will continue through fiscal year 1990. ICT is monitoring and updating a data base that assists USAID in writing the forests and biodiversity report to Congress. A main project data base of all USAID projects in the general area of forestry and natural resources will be created to produce updated estimates of project funding levels and numbers of projects.

### Other Forestry Contracts

The FSP Forestry/Agriculture Coordinator generated a scope of work for an OICD-contracted agroforestry consultant. The work involved conducting a literature review to determine the extent to which the short-term economic benefits of agroforestry have been investigated and documented. The results are published in the FSP document "Short-Term Economic Benefits of Agroforestry: A Survey."



*Research and training provided by FSP is crucial in developing a sustainable resource base in areas such as this. (R. Calnan)*

Pie slice size based upon <sup>number</sup> number of projects  
not the project obligations

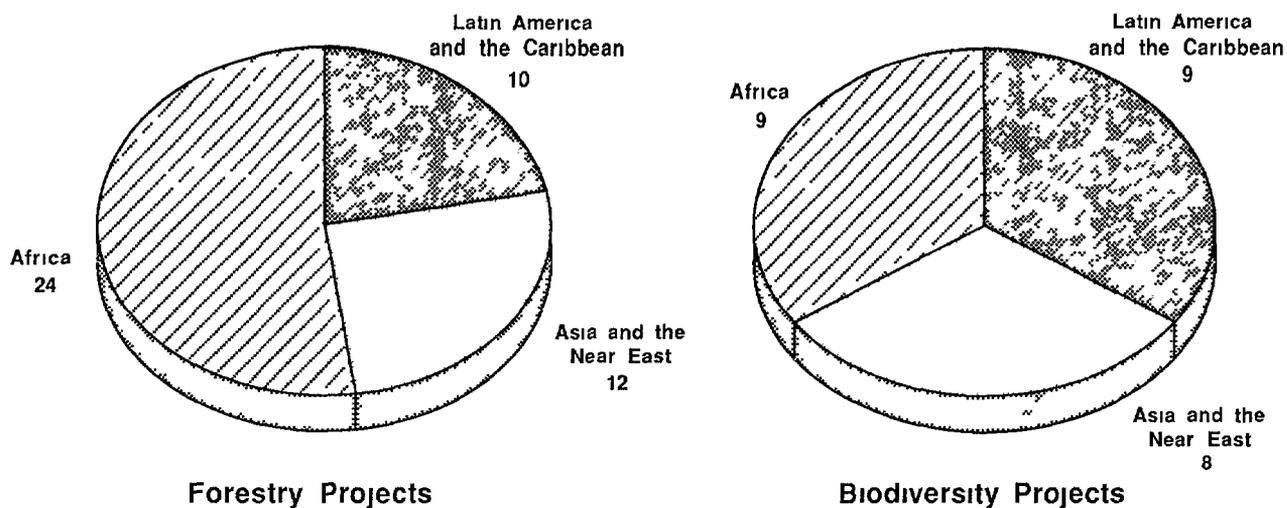


Figure 3-1 Number of countries with projects—distribution by region (includes both active and planned projects having received obligations for fiscal years 1988 and 1989)

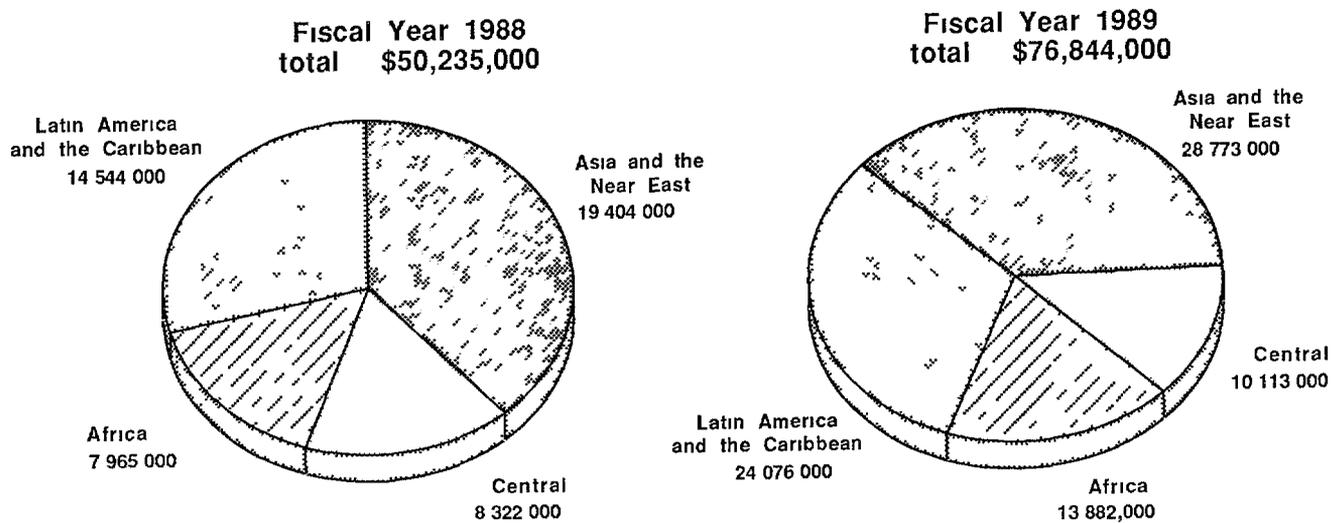


Figure 3-2 Forestry project trends for fiscal years 1988 and 1989—active forestry projects with obligations received in 1988–1989

Since 1984, FSP has financed the Forestry Private Enterprise Initiative (FPEI), which has supported market development activities in Ecuador and forestry- and private-enterprise-related research worldwide. The major concentration at this point is on Latin America, this highly successful project has been under way since 1984. Further details on FPEI are in Chapter 6.

In 1986, "The Job Seekers Guide to Opportunities in Natural Resource Management for the Developing World" was produced, it provided information on job opportunities in natural resources management in the developing world. FSP is producing a revision of this popular guide through a contract with a forestry consultant.

The non-governmental organization CARE supported and produced *Agroforestry Extension Sourcebook*. The publication was printed and distributed using FSP funds. The circulation was 550

Spanish/English books, and plans are under way for a French edition.

The University of Idaho is producing a profile of international programs of the National Association of Professional Forestry Schools and Colleges (NAPFSC) member schools. This project is in preliminary stages and has a proposed completion date of May 1990.

FSP was instrumental in planning and supporting the August 1988 international conference on "Educating Forest Technicians Into the 21st Century" held at Paul Smith's College in New York. FSP funded one participant each from Africa, Latin America, and Asia and the Near East.

Michigan State University is continuing its efforts to adapt the computer software QUICKSILVER, a forestry investment computer program, for use in Latin America. The project work began in April 1988 by a graduate student from the Dominican Republic. The work has been slow because of software difficulties.



*The Agroforestry Extension Sourcebook provides foresters information that may assist in tree planting and maintenance including watering, fertilization, and pruning (World Bank)*

and updates that are continuously being made to the English version

## Technical Reference Services

FSP staff maintain distribution files of the most commonly requested information. Information is gathered from FSP technical and geographic files and various data bases. FSP cooperates with the USDA National Agricultural Library, the Forest Service's Institute of Tropical Forestry in Puerto Rico and Institute for Pacific Islands Forestry in Hawaii, and the Technical Information Division of OICD to find information that is not available at the FSP offices.

Throughout 1986-89, FSP has provided information to USAID missions, the Peace Corps, individuals, and other requesting agencies on topics ranging from

pulp production to lethal yellowing of palm. Each geographical coordinator maintains country-specific files and technical libraries. The technical coordinators maintain project- and topic-specific data that are relevant and frequently requested. FSP also maintains a general library of reports, conference proceedings, out-of-print technical publications, and other hard-to-find information. FSP focuses on those materials that are difficult to obtain from standard libraries. Access to computerized bibliographies, such as the USDA National Agricultural Library, helps the staff readily provide requesters with relevant information.

Questions range from "What is the scientific name of the African spinach tree?" to "What are the effects of tree harvesting on global warming?" An example of information requested by a USAID mission was for a watershed management project in Morocco. The request was forwarded to OICD's technical inquiries group. FSP sent publications and other relevant information, including selections from the FAO Conservation Guide Series, documents on the economic valuation of natural resources, and pertinent texts relating to land-use issues.

## Communications in 1989

A direct link to USAID employees and cooperators in the field is the FSP Quarterly Memo. The 25- to 50-page document is distributed to more than 500 forestry and natural resources development workers worldwide and has information on new technologies and recent developments relating to forestry and natural resources. Other information includes recent news from the forestry development community, position vacancy notices, new projects and activities, academic programs, short courses, meetings and conferences, new journals and newsletters, and recent publications.

Another communications tool is the FSP Periodic Report. Published monthly, it updates readers on current FSP activities. It is distributed to more than 120 USAID direct-hire employees, USAID contractors, and associated organizations throughout the world. The report relates current support to USAID bureaus and missions, general agency support, upcoming events and visitors, and new publications. Special enclosures have included such items as an FPEI information packet, an FSP brochure, a Forest Service "Global Neighbor Growing Together" packet and world map, an American Forestry Association booklet called



*Fuelwood scarcity is a problem throughout the developing world, and many USAID projects, such as FIFRED, focus on reforestation projects and alternative energy sources (World Bank)*

"Forests and Forestry in America," and brochures announcing international seminars

FSP also sponsors brown-bag seminars for the Washington-based development community. In 1989, 23 seminars were held, ranging from "Botswana Biological Diversity Assessment" to "Soil Erosion in a Coastal Basin: A Study from the Philippines." For a complete list of the speakers and their topics for 1986-89, see Appendix D. Although the number of seminars was slightly lower than the project high of 28 in 1988, both the number of attendees at the brown-bags and the quality of the programs increased. Notices are sent to more than 200 professionals in the Washington, D.C., area.

At USAID request, FSP generates an annual report at the end of the fiscal year. In addition to this summary report, which serves as the 1989 annual report, interested readers can find historical information on FSP by referring to the *Progress Report of the Forestry Support Program 1981-1985* or the annual reports from 1986, 1987, and 1988.

## Technical Support to Research

FSP supports USAID forest research efforts by reviewing research projects and proposals, identifying investigators to cooperate with such efforts, funding a limited number of specific research activities, advertising and promoting research workshops, reviewing research reports, and disseminating research results.

During 1986-89, FSP provided the International Union of Forestry Research Organizations (IUFRO) a major portion of the resources necessary for regional workshops in Kenya on forestry research in Africa's Sahelian-Sudanian climatic zone and for workshops in Peru on the role of multipurpose forest species in the life of rural communities.

FSP also supported, on a trial basis, five graduate research studies to foster expanded cooperation between U.S. universities and developing country institutions. Fully financed research topics included the effect of light exposure level on the recruitment and growth of five tropical tree species in Panama, the production of suspended sediment from small catchments in the mid-elevation wet zone of Sri Lanka, and the effects of changing land use on erosion on the Paute watershed in Ecuador. FSP partially funded research for a Dominican on an economic model for analyzing forest energy plantations in the Dominican Republic.



*FSP provides technical support in non-traditional forestry- and natural resource-related enterprises (World Bank)*

FSP staff also contribute to or write many articles and reports. See Appendix E for a list of reports written or influenced by FSP.

## Outlook

FSP will continue to serve the needs of USAID by providing qualified consultants to design, coordinate, and evaluate forestry and natural resources activities as requested by USAID missions and bureaus. Technology transfer also will be continued and enhanced by using the most up-to-date information and methods of communication available to the forestry and natural resources community.

The FSP Quarterly Memo and FSP Periodic Report will continue to be distributed to USAID missions and collaborators. FSP will sponsor brown-bag seminars throughout fiscal year 1990. Technical reference material will be identified and catalogued, with special attention given to hard-to-find information.

## Chapter 4 Training

### Training Strategy

FSP prepares a training strategy each fiscal year that defines its goals in assisting USAID with training in forestry and related natural resources, highlights areas of training that would qualify for FSP support, and sets objectives for FSP to accomplish. FSP helps USAID missions achieve their training objectives and advises institutions in the United States and developing countries on how to meet mission needs. FSP also promotes, supports, and participates in developing training activities and materials that advance USAID regional and worldwide goals. USAID bureaus review the strategy before it is implemented.

### Liaison and Technical Assistance

FSP informs missions of training opportunities through telegrams, telexes, mail, and the FSP Quarterly Memo. In 1989, FSP provided assistance by identifying training specialists for Senegal and Côte d'Ivoire and by arranging a study tour for participants from Senegal.

Keeping an open communications line with cooperating agencies and institutions is one of the responsibilities of the FSP Training and Education Coordinator. Institutions with which communications regularly take place include the National Association of Professional Forestry Schools and Colleges (NAPFSC), Historically Black Colleges and Universities (HBCU), and the eastern and western associations of forestry technician schools. NAPFSC is the principal US institutional training contact for FSP. The Training and Education Coordinator meets annually with the International Committee of NAPFSC.

Along with providing information on USAID training needs, FSP sent the institutions announcements of employment opportunities in international forestry and natural resource development. Individuals at these institutions were encouraged to enroll in the FSP international skills roster. In 1989, the FSP Training and Education Coordinator participated in the International Workshop on Professional Education and Training in Agroforestry (Gainesville, Florida). He also participated in various portions of the International Seminar on Forest Administration and Management. Consultative visits were made to Washington State University, the University of Idaho, and the University of Montana.

Students sponsored by USAID and the United Nations Food and Agricultural Organization (FAO) were

sent information to encourage them to participate in activities of the Society of American Foresters and to join the International Society of Tropical Foresters. These students also were placed on the mailing list for the FSP Quarterly Memo.

Technical assistance was provided to the USAID Development Strategies for Fragile Lands Project (DESFIL) in organizing and implementing the First Honduran Environmental Education Workshop in August 1989. Marta Knowlton of the Southeastern Forest Experiment Station of the Forest Service advised on the design of the conference, and Jesus Andres Cota of the Southwestern Region of the Forest Service led a team of six facilitators at the conference. The conference produced a Honduran Strategy for Environmental Education. Before the conference, the Training and Education Coordinator visited Honduras to arrange FSP participation and to consult on



*FSP's training, such as the International Seminar on Forest Management, focuses on training host country professionals who can train their compatriots. (S. Huke)*

training with the Honduras Forestry Development Project and ESNACIFOR (Escuela Nacional Ciencias Forestales), the Honduran forestry technician school

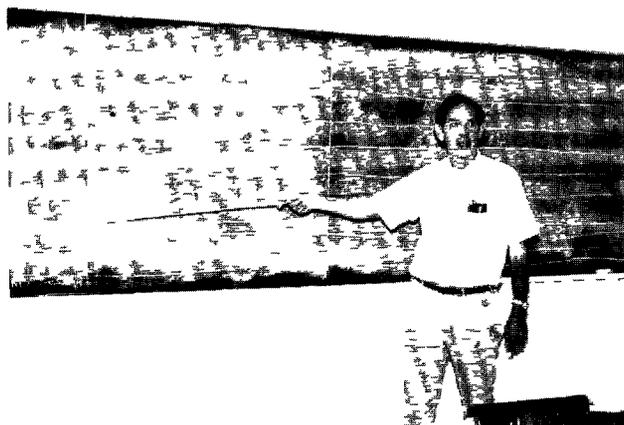
The Training and Education Coordinator serves on the Training Committee of the International Science and Education Council (ISEC), which coordinates training activities among USAID, FAO, OICD, and the universities. The Training Committee held a National Training Conference in March in Washington, D.C., and the Training and Education Coordinator presented a paper—"Internships in Natural Resource and Environmental Management in the USA"—for foreign students, and it will be published in the conference proceedings

## Training Courses and Materials in 1989

Three activities were the focal points for FSP activities: a Regional Tree Seed Technology Course in Kenya, follow-up work on a conference held at Paul Smith's College, and finalization of the CARE Agroforestry Extension Training Sourcebook

### Regional Tree Seed Technology Course, Kenya

In cooperation with the Southern Forest Experiment Station of the Forest Service, FSP conducted a 2-week course in tree seed technology in December 1988. The participants were 28 trainees from 11 countries taking the course at the Social Forestry Training Centre of the Kenya Forestry Research Institute. Course content included seed biology, seed



*Frank Bonner was the lead trainer in the Seed Tree Technology Course held in Kenya (T Geary)*



*Students in the Seed Tree Technology Course in Kenya pay close attention to Frank Bonner's instruction (T Geary)*

collection, postharvest care, extraction, cleaning, upgrading, testing for moisture, purity weight, and viability, insects and diseases, storage, labeling, germplasm conservation, applied seed research, and seed centers. The course was offered primarily for technicians from non-governmental organizations or private voluntary organizations, and these were the participants targeted with USAID funds (see the box). Participants sponsored by other donors worked for Government agencies

Funds for the course came primarily through FSP's RSSAs with S&T/FENR, the USAID Africa Bureau, and the Forest Service. However, there were important contributions from the Danish International Development Agency (DANIDA) (which sent a seed collection instructor), the Canadian International Development Agency (CIDA) (which funded two participants), FAO (which funded six participants), USAID missions and CARE (which funded four participants), the Kenya Forestry Research Institute and Japanese JICA (which provided subsidized facilities and staff), and the Kenya Energy Non-Governmental Organization, KENGO (which paid for travel of six Kenyan nongovernmental organization participants)

In August 1989, the course coordinator returned to Africa (Kenya, Uganda, Zambia, Zimbabwe, and Botswana) to evaluate the course. He interviewed trainees and investigated additional training needs, including tree improvement, seed technology, tree planting, and future technical assistance needs. He concluded that the greatest barrier to using the skills learned in the course is the lack of facilities and equipment in the workplace. He also felt a definite need exists for two types of training: (1) a basic course in

## 1989 FSP Training Fellowships

Training Fellowships granted by FSP during 1989 are as follows

### Sixth International Seminar on Forest Administration and Management

Cesar Antonio Berni, National Forest Service,  
Paraguay (joint funding with Peace Corps/  
Paraguay)

Jean Serge Antoine, Ministry of Forestry—Forest  
Service, Haiti (joint funding with Partners of the  
Americas)

Lincoln Quevedo Hurtado, Facultad de Ciencias  
Agrícolas, Universidad  
Gabriel Rene Moneno, Bolivia (joint funding with  
Partners of the Americas)

### International Workshop on Professional Education and Training in Agroforestry

Carlos Linares Bensimos, Peru

Jose DiStefano, Costa Rica

### Regional Tree Seed Technology Course, Kenya

Geo Z Dutkti, CARE, Uganda  
Dennis Vilakati, college instructor, Swaziland  
Rose M Magiroi, Maasai People's Project, Kenya  
Rosemary Nasieku, Maasai People's Project, Kenya  
O I Kariuki, Kenya Energy and Environment  
Organization  
Mark O Omondi, Kenya Energy and Environment  
Organization  
Kizito Chewa, YMCA, Kenya  
Peter Mbaye, YMCA, Kenya  
Frank J Singano, Silviculture Research Centre,  
Tanzania

Mussa R Obilla, Tanzania Tree Planting Foundation  
M B M Sekhwela, National Institute of Develop-  
ment Research and Documentation, Botswana  
Godfrey Kgolo, Forestry Association of Botswana  
Marcello Windsor, Forestry Department, Belize  
(joint funding with USAID/Belize)  
Abd Elaziz Abd Alla Ombabi, Korofan Forestry  
Association, Sudan  
Anwar Abdelhamid, CARE, Sudan  
Sayda Mahgoub Mohamed-Ibrahim, Forestry  
Research Center SOBA, Sudan

collection, cleaning, and pretreatment of seeds and the fundamentals of small-scale nurseries taught nationwide and (2) a comprehensive tree seed technology course, similar to the one given in Kenya, offered regionally every 4 to 5 years. Another high priority need was for tree seed manuals.

### Educating Forestry Technicians

The proceedings of the FSP-supported International Conference on Educating Forest Technicians into the 21st Century were published during 1989. This conference, held at Paul Smith's College in New York in 1988, was attended by 49 individuals representing 19 countries—Costa Rica, Honduras, Liberia, Nepal, Niger, Nigeria, Pakistan, Paraguay, Papua New Guinea, the Philippines, Sri Lanka, Sudan, Uganda, and Thailand. FSP provided French translation and

funded a former Peace Corps volunteer, who had worked in Niger, to assist the participants from Niger.

### Agroforestry Sourcebook

Artist services and editing of the CARE *Agroforestry Extension Training Sourcebook* that were funded by FSP in fiscal year 1988 were completed in 1989. FSP purchased 550 copies, 300 of which were purchased with funds from FSP's RSSA with the USAID Africa Bureau, and these copies were donated to CARE for training their personnel. CARE wrote the *Sourcebook*, which consists of two parts. The first part is a workbook on planning agroforestry training, and the second is an anthology of agroforestry literature. The workbook has ten modules: Beginning Agroforestry, Extension Training, Introduction to Agroforestry, Project Approach to Agroforestry Extension,

Agroforestry Extension and Communication, Land Use Diagnosis for Agroforestry, Agroforestry Design, Planning, Monitoring, and Evaluating Agroforestry Extension Activities, Seed Supply, Nursery Management, and Tree Planting, Protection, and Management

Major accomplishments in training are as follows

- Strengthened communications links to missions and the US forestry education community (FSP was instrumental in forming the International Committee within the National Association of Professional Forestry Schools and Colleges )
- Supported with funds and advisory services the International Seminar on Forestry Administration and Management produced cooperatively by the Forest Service and the University of Michigan
- Produced the first major textbook in agroforestry—*Sistemas Agroforestales, Principios y Aplicaciones en Los Tropicos*
- Produced a revised, second edition of *Profiles of U S A Forestry Schools*, a reference manual for selecting US universities for forestry training
- Sponsored the international conference, Management of the Forests of Tropical America Prospects and Technologies, and produced the proceedings of the conference
- Sponsored the International Conference on Educating Forest Technicians into the 21st Century and produced the proceedings of the conference
- Assisted CARE in producing the *Agroforestry Extension Training Sourcebook*
- Provided missions with advisory services, including plans for training of project personnel in St Vincent and the Grenadines, and international training for USAID-assisted social forestry projects in India
- Arranged for a program of field forestry training of Honduran foresters at the University of Idaho that has continued annually
- Arranged the US-based activities for the start of the India State Agricultural Universities Forestry Faculty Training Program
- Conducted a regional tree seed technology course in Kenya



Participants in the regional Seed Tree Technology Course held in Kenya learned useful information to help improve their country's resource base (T Geary)

- Assisted in conducting several courses in tree seed handling, agroforestry, and watershed management
- Provided assistance in placing USAID-funded participants in U S universities and giving them information on U S forestry activities, and arranged study tours for participants from St Vincent and Senegal
- Completed graduate student research in Sri Lanka, Indonesia, Swaziland, Panama, and Ecuador
- Assisting USAID/Thailand with planning and implementing a seminar on forest resource management for the MANRES Project
- Helping organize regional training conferences on forestry education
- Assisting REDSO/ESA with training Côte d'Ivoire agriculture and forestry specialists in identifying, designing, managing, and evaluating field projects in water- and forestry-related natural resources
- Providing follow-up assistance in tree seed technology to Africa, as financially feasible, following the recommendations of a previous consultant
- Publishing a checklist on questions to be answered before starting a natural resources project in developing countries (primary target is Peace Corps volunteers)
- Producing and publishing profiles of the international programs of member schools of NAPFSC
- Providing technical support to the International Seminar on Forest Administration and Management, and arranging for its publicity through USAID
- Technically reviewing proposals to USAID for training efforts, both in the United States and abroad
- Assessing the effectiveness of USAID-funded training in forestry by tracing careers of recently trained (past 5 years) individuals in USAID countries (including a questionnaire on how useful their training was and how it did or did not relate to their current and future job)
- Providing technical assistance for USAID project training plans and other technical assistance to missions

## Outlook

In fiscal year 1990, FSP will focus on training activities and materials that transfer agroforestry technology, improve seed tree technology, contribute to tropical forest management (with an emphasis on natural forests, and conservation of biological diversity), improve education of forest technicians, and promote conservation education. Planned activities include the following:

- Rewriting the FSP agroforestry text, *Sistemas Agroforestales*, as the preparatory stage for publishing a second edition in fiscal year 1991
- Providing training in agroforestry extension in at least two African countries in cooperation with the contractor for the USAID Bureau for Africa Natural Resources Management Support Project (NRMS)
- Providing advisory assistance of funds as needed to cooperatively produce a French translation of the CARE *Agroforestry Extension Training Sourcebook*
- Increasing assistance in training to the Peace Corps

## Chapter 5

# The Forestry Private Enterprise Initiative

The Forestry Private Enterprise Initiative (FPEI) aims to increase income and employment through multiple uses of forests in developing countries. Forests are a primary source of economic activity in many regions of both the humid and dry tropics. FPEI strives to increase economic returns through direct and indirect means. It also seeks to increase stewardship and strengthen the economy.

The Southeastern Center for Forest Economics Research (SCFER), in cooperation with North Carolina State University, Duke University, and the Southeastern Station of the Forest Service, administers FPEI. USAID, in conjunction with OICD and FSP, funds the project.

### Market Development Activities

FPEI began its technical assistance efforts in Ecuador in 1985 under the name of INFORDE (the FPEI Private Forestry Initiative for Development in Ecuador). In early 1989, the Ecuador portion of the project ended, shifting focus to Guatemala. Later in the year, S&T/FENR transferred the market demonstration component (INFORDE) of FPEI to the S&T/RD-funded contractor Interamerican Marketing Corporation (IMCC), associated with the USAID Market Technology Access Project (MTAP). This will enable the project to take advantage of IMCC working relationships already in place with the US National Association of State Development Agencies. Also, IMCC is an "8a" firm, with mission "buy-in" capabilities, it is well versed in the business aspects of USAID and has considerable experience in international trade, marketing, and industry.

FPEI began its efforts in Ecuador because of the importance of forests in Ecuador's national economy, the presence of strong institutions, and the country's excellent potential for growth in forestry and wood-based industries. The three basic strategies for Ecuador were the following:

- Increase the value of wood-based products, nature tourism, and other goods and services that can be sold from the forest
- Increase the earnings of private forest-based activities through improved technologies and training
- Encourage direct private investment in the forestry sector

During fiscal year 1988, USAID followed original plans to complete the INFORDE demonstration program in Ecuador by early fiscal year 1989. A local mission-funded operation in Central America was established to function for the balance of the year. This decision was based on expectations that the Center for Technical Support to Wood Products and Furniture Industries (CORMADERA), a nonprofit entity for wood products laboratory and training created by FPEI in 1988, and FEPROTUR-NATURALEZA (the National Nature Tourism Agency) would continue their programs in Ecuador. By late fiscal year 1988 and early fiscal year 1989, FPEI activities began to transfer to CORMADERA and FEPROTUR-NATURALEZA.

### Ecuador Accomplishments

During late 1988, the Association of Wood Industries of Ecuador (AIMA) organized productive policy roundtable sessions. Several Ecuadorian institutions from the financial, agricultural, forestry, and industrial sectors participated. Applied research work and surveys conducted by AIMA, CORMADERA, the Institute for Socioeconomic and Technological Research (INSOTEC), and FPEI provided the basis for discussions.

USAID/Quito pledged support for FEPROTUR-NATURALEZA's nature-oriented tourism initiative, which was developed with FPEI support through applied research studies, surveys, consultations, and field visits. This financial support was delivered via the IMCC mechanism in late fiscal year 1989, indicating implementation in early fiscal year 1990.



*FPEI assists forest and forest-related industries in improving their ecologic and economic base (S. Lampman)*

Several other INFORDE-sponsored activities blossomed during this period

- A dozen students from the Forestry School at the University of Loja completed field work for their theses
- An experimental agroforestry nursery and extension program was consolidated by a Peace Corps volunteer at the Agricultural Vocational School at Quinde, with support from Endesa, a private forest industry company
- CORMADERA and INSOTEC designed a cooperative bulk purchasing and technical services center for the smaller wood-based enterprises

### Follow-up Activities in Ecuador

The forestry officials of the new government, who entered office in August 1988, were unfamiliar with the proposed cooperative agreement that would have allowed CORMADERA to revive, modernize, and operate a government wood products laboratory near Quito. The impact and legacy of INFORDE's work in Ecuador will be enhanced if the new government recognizes and uses CORMADERA as an ally. Continued support of CORMADERA by AIMA and USAID/Quito also will be a key factor during this difficult transitional period.

Another critical factor in the transition was the plan to have the FSP Market Demonstration Specialist return to Quito three to four times a year for the first 2



*Assistance by FPEI includes planning for the future by establishing tree plantations (H Loyola)*

years after relocation to Guatemala, to ensure project stability. Because of unexpectedly heavy time requirements in initiating the Guatemalan program and in moving the necessary funding from Quito to Washington and then to IMCC, the initial follow-up visit was postponed.

### Guatemala Accomplishments

Before its arrival in Guatemala, INFORDE already had been "drafted" to coordinate and support local groups interested in producing a new forestry law. This effort required much of the first 6 months of the year. Working jointly with USAID/Guatemala and ROCAP personnel, a consensus draft was presented to the Congress in early June, and approved in late 1989.

The public-private image chosen for the program in Guatemala is bearing fruit. Productive working relationships have been established with many forestry- and natural-resource-related groups and organizations.

There has been good progress in developing programs in the following areas:

- A pilot management concession model for natural tropical forests in cooperation with several natural resource agencies
- A natural pine forest management demonstration integrated with industrial utilization (a joint effort with two agencies, including large training and extension components over a 7-year period)
- A pilot effort to computerize cutting permits for one region of DIGEBOS (the Guatemalan Forest Service). A modular design will allow this to develop over time into a comprehensive management system.

Among other smaller initiatives are the following:

- Conducted an evaluation of an industrial reforestation program for USAID/Guatemala
- Assisted an agency in developing a strategy and proposal to strengthen its marketing of artisan products
- Circulated a draft concept paper titled "How INFORDE Can Contribute to USAID/Guatemala and ROCAP's Forestry and Natural Resources Challenges" (providing a rationale for increased forestry involvement by USAID/Guatemala and offering specific program ideas)

## Follow-up Activities in Guatemala

The applied research component of FPEI is a key ingredient for program success in Guatemala. Some funding is available from FENR for FPEI's research component in 1990. One opportunity to enhance funding levels may be in current efforts by INFORDE to join forces with planned USAID/S&T/RD policy activities.

INFORDE has requested local mission funding for its ongoing projects. The concept paper noted above was intended to generate sufficient interest within USAID/Guatemala to take full advantage of what INFORDE has to offer, and to substantially increase its seed money as this new FPEI effort becomes fully operational under S&T/RD and IMCC.

## Research Activities

The transition from Ecuador to Guatemala has slowed FPEI's applied research. S&T/FENR funding has wound down as FRM nears its mid-1990 completion. In addition, during the second half of fiscal year 1989, the principal investigator received a sabbatical to undertake a Fulbright Fellowship in Costa Rica. He focused on further work in nature tourism, which has been a major strength of FPEI.

The objectives of FPEI's applied research component during fiscal year 1989 were as follows:

- To extend the analysis of comparative advantage in timber growing and wood processing to new products and countries
- To explore opportunities for SCFER/FPEI to participate in debt-for-forestry arrangements
- To examine the contribution of nature tourism in Costa Rica as a revenue base to pay operating and maintenance costs of protected areas

Fiscal year 1990 ends the funding for applied research using core funds from USAID/S&T/FENR through FSP. Future funding needs to come from missions on a project-by-project basis. During fiscal year 1989, two research projects were ongoing, in addition to the review of debt-for-forestry opportunities. Forty-three working papers have been published, with 10 scheduled for mid-1990, and more than 2,000 reprints have been mailed worldwide.



*Improving appropriate technology is an effective method to increasing forest product industry efficiency (FAO)*

## Administration Activities and Outlook

As with the other components of FPEI, fiscal year 1989 was a period of phasedown for the project administrator. Except for final report writing, the position was essentially phased out in early summer, with project management responsibilities shifted to North Carolina State University to better meet the needs for future research support. The position of administrative assistant in Raleigh also was phased out at the end of October, with ongoing project supervision and financial control assumed by the Forestry Department and Office of International Programs at North Carolina State University. INFORDE budget and operating control was transferred to IMCC during the final quarter of fiscal year 1989, and the market development specialist became an IMCC employee on October 1.

Other important administrative events during the year were as follows:

- A 3-day research planning meeting was held at North Carolina State University in early April 1989, with participation by the market development specialist and the nature tourism project leader from Ecuador. A strategy was developed for research support of field activities in Central America, as well as follow-up activities in Ecuador.
- The 12-page descriptive color brochure in English and Spanish, giving an overview of FPEI and INFORDE activities in Ecuador from 1985-89, was completed in early spring. More than 3,000 copies

already have been distributed. This brochure will be added to the list of working papers in early 1990.

- A paper titled "FPEI—Using the Private Sector for Sustainable Forestry Development" was presented by the project administrator at the International Forestry Working Group technical session at the National Convention of the Society of American Foresters meeting in Spokane, Washington, in September 1989. This paper will appear in the Conven-

tion Proceedings and also will be available as an FPEI working paper.

- A 5-year synthesis report for the project is scheduled for release in mid-1990. A small amount of fiscal year 1990 funding has been allocated by USAID/S&T/FENR through FSP. The money will help complete the printing and distribution of the working papers and maintain the basic SCFER/FPEI organizational structure.

## Chapter 6

# The Forestry-Agriculture Initiative

---

The FSP Forestry-Agriculture Initiative became operational at the mid-point of fiscal year 1986, with the appointment of a Coordinator. The Coordinator focuses on three major activities:

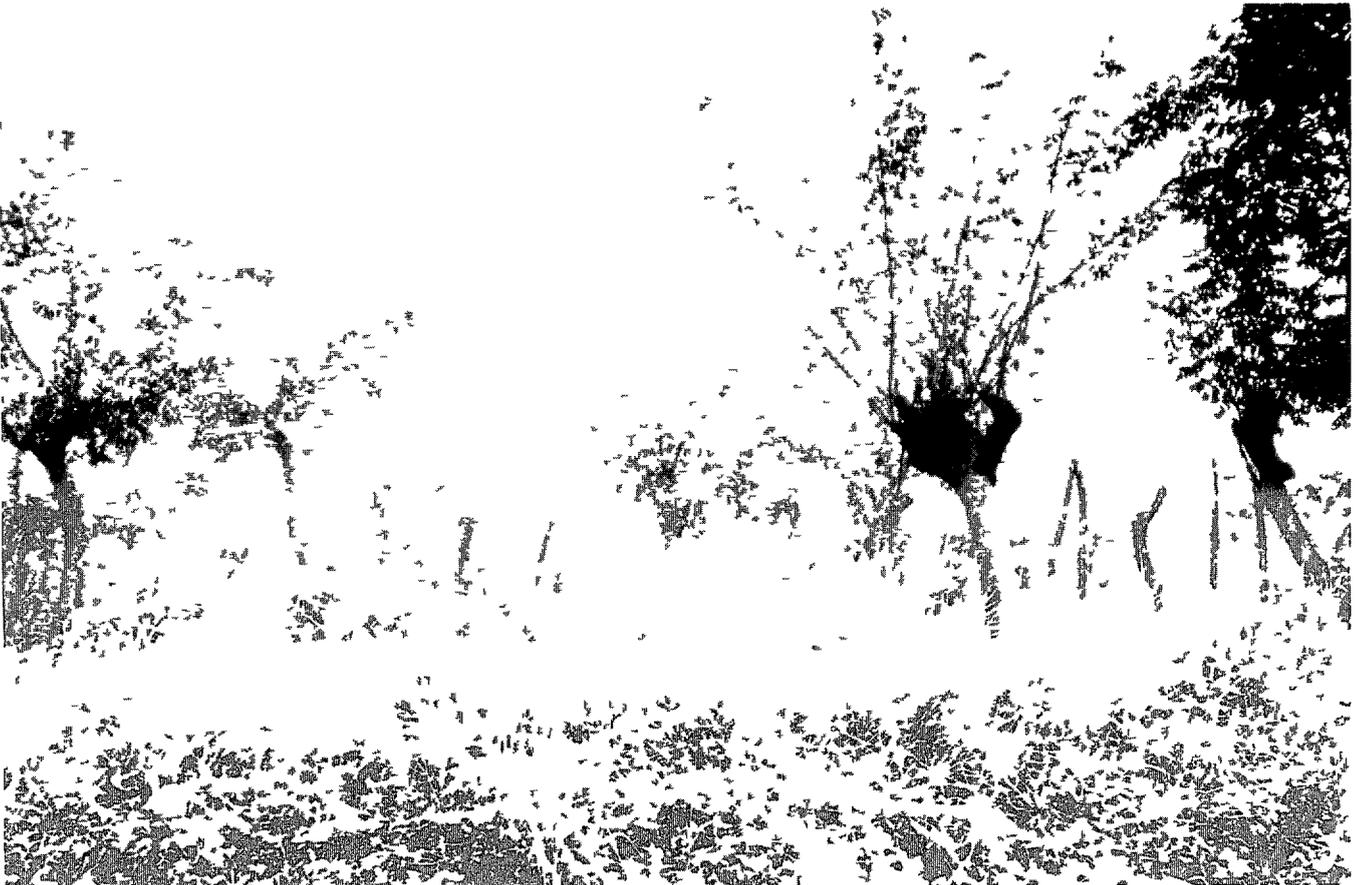
- Direct involvement in mission and centrally funded agriculture and natural resource projects to encourage a greater emphasis on agroforestry
- Development of courses and materials for agroforestry training
- Establishment of linkages with national and international professional agroforesters, as well as with institutions supporting agroforestry, to take advantage of the latest technologies developed in the field

As USAID has strengthened its support for agroforestry and increased the number of agroforestry-related projects, the role of "encouraging a greater emphasis" on agroforestry has evolved into a role of providing support for ongoing planned ac-

tivities. The advice provided to missions also has expanded beyond agroforestry to include other techniques involving an overlap of agriculture and forestry, such as farm forestry. In future years, this role will include support and encouragement for activities involving women in agroforestry.

### Mission and Bureau Support

Since 1986, the Forestry-Agriculture Initiative has been active in several areas. The Coordinator has provided support for project design, assisted with agroforestry training, networked with other donors and development organizations, participated in workshops and conferences, and disseminated information about agroforestry. Assistance has been provided primarily to Asia (including Thailand, Nepal, and Indonesia) and Latin America and the Caribbean (including the Dominican Republic, Haiti, Bolivia, Ecuador, and Grenada).



*Agroforestry actions, such as live fenceposts, are being adopted in many developing countries (T. O. Rourke)*



*Each home has its own garden that supplies food, shade, spices, and other household necessities (T O'Rourke)*

The Coordinator position was vacant for much of fiscal year 1989. Before the vacancy, an assessment was conducted on the development potential of non-edible coconut products for USAID in the South Pacific region. When the position was filled, activities focused on establishing contacts within S&T/FENR, S&T/AG, the Bureaus and Missions, and the general agroforestry and farm forestry community.

Future directions for the initiative were reassessed in light of emerging USAID needs. A new initiative on agroforestry and farm forestry economics was launched. A quick review of short-term economic benefits of agroforestry was initiated in September 1989.

### **Agroforestry Training**

Agroforestry training activities conducted or supported by FSP included the production of *Sistemas Agroforestales*, an agroforestry textbook intended for use at the university level (prepared by the Organization for Tropical Studies (OTS)). FSP also has provided financial assistance for producing an extension training manual prepared by CARE. During fiscal year 1990, the Coordinator will assist in agroforestry workshops in East Africa using this manual. FSP also will help translate this manual into French.

### **Networking Activities**

The Coordinator has attended a large number of national and international seminars and conferences to keep abreast of ever-evolving research and extension activities in agroforestry. The Coordinator has maintained contact with nationally and internationally based organizations active in the field and served on organizing committees for workshops and conferences, such as the conference on "Planning for Agroforestry" held at Oregon State University in early 1989.

### **Documents and Reports**

FSP has supported a number of agroforestry papers, including reports on the potential contribution of agroforestry to cocoa farming, palms as multipurpose cash and subsistence tree crops, buffer-zone agroforestry, an annotated agroforestry bibliography, and a review of studies concerning short-term economic benefits of agroforestry.

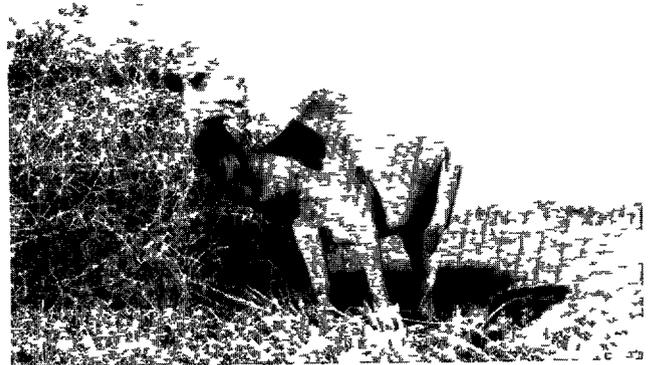


*Grasses are used for teas, pasture improvement and other agroforestry uses that are emphasized in the FSP-sponsored Agroforestry Sourcebook (D Johnson)*

## Outlook

Anticipated activities for 1990 include the following

- **Increase Awareness** USAID staff awareness of assistance available from FSP in the area of forestry and agriculture needs to be increased. This will be done through more communication with missions—through cables and correspondence—and through participation in key mission project planning sessions, such as RENARM Project Sessions in Central America
- **Agroforestry Economics** The review of short-term economic benefits of agroforestry concluded with a number of recommendations for potential FSP involvement in this sector. Future involvement may include conducting case studies of techniques that are thought to provide more short-term benefits to farmers
- **Training and Education** The Coordinator will provide training assistance at two Agroforestry Extension Training Workshops to be conducted in Rwanda and Madagascar. FSP also will provide support for revising *Sistemas Agroforestales* and for translating the CARE *Agroforestry Sourcebook* into French
- **Special Studies** A study is anticipated on the adoption of agroforestry techniques by farmers



*Agroforestry systems can improve both forested areas and pastures, which leads to an increase in the quality of feed for animals (S Huke)*

after the completion of an agroforestry project. Its purpose will be to identify criteria for ensuring the sustainability of project interventions

- **Women in Forestry and Agriculture** Ongoing investigations are addressing the possibility of conducting national workshops on women in forestry and agriculture for selected countries in Asia, Africa, and Latin America

## Chapter 7

# Forestry Supported by Food Aid and Voluntary Organizations

---

In 1986, S&T/FENR requested that FSP establish a Food Aid and Voluntary Assistance Coordinator position that would be co-funded by USAID and the Forest Service. During 1986-89, FSP moved from encouraging agency recognition of food aid-supported forestry to actively assisting an increasing number of food aid-supported natural resources activities. Special attention has focused on increasing the ability of U.S. private voluntary organizations, other non-governmental organizations, and the Peace Corps to use food aid to support their natural resource management goals. To this end, FSP helped the Peace Corps and USAID organize Food Aid and Natural Resources Programming Workshops in Kenya and Guatemala and has helped design and evaluate various USAID food aid-assisted projects overseas.

FSP has focused on improving the developmental impact of food aid-supported forestry activities through technical assistance and networks. The role of educating natural resource professionals about marshalling the food aid resource has grown to supporting natural resource management programs. FSP also educates food aid management professionals of the importance of their resource in achieving USAID goals in the management of natural resources.

FSP provides technical assistance in support of a number of legislative laws and acts. The most familiar is Public Law 480, which receives funding for its Titles I, II, and III. Another important support vehicle is Section 416 of the Agricultural Act. The food aid activities also work with the Commodity Import Program and the Economic Support Funds Program.

### Areas of Concentration

FSP's efforts to improve the developmental impacts of food aid-supported forestry and natural resource activities or those activities implemented by private voluntary organizations or non-governmental organizations remain in the following six focus areas:

- Gathering, maintaining, and monitoring information on food aid-supported forestry projects and activities worldwide
- Increasing the long-term impact of food aid-supported forestry development
- Providing direct technical assistance for food aid-supported forestry activities
- Coordinating with USAID regional bureaus, the Bureau for Peace and Voluntary Assistance, Food

for Peace Officers, and related agencies and individuals

- Assisting USAID and Peace Corps country missions with project identification, formulation, execution, and evaluation
- Cooperating with other related institutions and private voluntary organizations that are actively implementing food aid programs and forestry projects

The computerized system for identifying and monitoring food aid forestry activities overseas, developed in 1987, has been maintained. Information contained in the data base was used for the FSP *Report on Forestry Activities of USAID* and the USAID *Report to Congress on Tropical Forests and Biological Diversity* for 1988 and 1989. Some of the largest projects are supported by food aid. The World Food Program, using P.L. 480 Title II food donations, remains the world's largest implementor of forestry projects.

The long-term impact of food aid-supported projects is fostered by the integration of food aid policy in mission and bureau management statements. The USAID Policy on the Environment and Natural Resources (1988), as compared to its predecessor (1985), has additional details on the use of food aid to improve natural resources management in the developing world. Similar wording is found in many USAID missions' new Country Development Strategy Statements. The Food for Peace and Voluntary Assistance Bureau's Strengthening, Innovation, and Planning As-



*Reforestation and nursery establishment are part of many food aid-assisted projects (K Hunter)*



*Food aid-assisted projects often help people produce their own food while learning to manage the forest resources (World Bank)*

Assistance Grants' selection criteria support private voluntary organization use of food aid

The FSP Coordinator for Food Aid and Voluntary Assistance helped evaluate Tunisia's P L 480 Title I Concessional Sales Program This \$57 million local currency work relief program is substantially dedicated to soil and water conservation (40 percent) and forestry (35 percent)

A computerized mailing list of those interested in food aid-supported forestry has been created that allows for the rapid dissemination of relevant technical material Recognizing this key networking ability of FSP, numerous voluntary submissions of material were mailed to increase the awareness of food aid to support forestry

The FSP Coordinator for Food Aid and Voluntary Assistance was the team leader of a three-person mission to Niger to design the Niger Natural Resources Management Project in 1988 The proposed project incorporates Development Assistance dollars with local currency generations and a multiyear Peace Corps

support program to the project A Peace Corps programmer financed by USAID was part of the team

A Food Aid and Natural Resources Programming Workshop for Latin America was held in collaboration with the Peace Corps in February 1988 in Guatemala Representatives from USAID, the Peace Corps, government ministries involved in forestry or food aid management, international private voluntary organizations, and indigenous non-governmental organizations attended the workshop As a result of this workshop and the earlier one for Africa held in Mombasa, Kenya, several new or substantially improved food aid-supported forestry programs have been planned

FSP continued to work closely with private voluntary organizations at both the international and national levels to increase their abilities to implement



*Tree farms are established with the incentive provided by food aid (World Bank)*

USAID forestry activities Cooperators included CARE, Catholic Relief Services, Adventist Relief and Development Agency, World Vision, Lutheran World Relief, Save the Children, AFRICARE, SHARE, Conservation Foundation, World Wildlife Fund, Conservation International, World Resources Institute, Nature Conservancy, and Pan American Development Foundation The FSP Coordinator for Food Aid and Voluntary Assistance participated in the USAID Inter-agency PVO Liaison Committee, the U N Non-governmental Liaison Service, the USAID Matching and Partnership Grant Review Committees for CARE, World Wildlife Fund, and Conservation Foundation, and the USAID Bureau for Africa Food Aid Task Force FSP continued to facilitate USAID/private voluntary organization interactions with the World Food Program

## Outlook

FSP is planning to increase staff commitment to integrating food aid resources with the other developmental resources, including support from the Peace Corps, to assist environmentally sound forestry activities in the developing world This is expected to include the following

- Technical assistance to the USAID Food for Peace and Voluntary Assistance Bureau in the management of its forestry and natural resources portfolio
- Technical assistance and information sharing on the integration of food aid resources in the regular programs of the USAID regional bureaus and missions
- Representational presentations to entities on the composite USAID activities linking food aid forestry and natural resource projects or those implemented by private voluntary organizations

## Chapter 8 Social Forestry

The FSP Social Forestry Coordinator position arose from the USAID concern that social forestry issues were receiving inadequate attention in development projects. The position was established in late 1987 through a Resources Support Services Agreement (RSSA) with OICD. This position provided important support to both S&T/FENR and S&T/RD by marshalling expertise that was lacking in-house.

During 1989, FSP's full-time Social Forester accepted a long-term field assignment on a USAID-funded project in Nepal, and FSP has maintained an interim part-time person in that position through an OICD contract. The majority of the Social Forester's efforts have been to support the social science activities of USAID's Forestry/Fuelwood Research and Development Project (F/FRED), managed jointly by S&T/FENR, S&T/RD, and USAID Bureau for Asia and the Near East/Technical Resources/Energy Natural Resources (ANE/TR/ENR). The majority of

work performed by the Social Forester has been in support of field activities on behalf of the bureaus and missions. The Social Forestry Initiative promotes an enhanced awareness of the integral role that local people have in all aspects of forestry.

### Backstopping F/FRED

The Social Forestry Coordinator's support to F/FRED was designed to promote and improve social science understanding in research related to multipurpose tree species use on small farms. The project supports Asian institutions and a network of individual scientists concerned with multipurpose tree species in the tropical humid/subhumid and arid/semiarid ecological zones. The primary contractor for USAID on F/FRED is Winrock International Institute for Agricultural Development.



*Fuelwood becomes scarcer as human pressures deplete the supply (FAO)*



*Extension and environmental education are integral parts of any social forestry program (S Lampman)*



*Water supplies are diminished by deforestation, affecting the daily lives of the people living on the forest (T O'Rourke)*



*Long walks to do daily chores, such as washing and wood gathering is a negative impact of deforestation (T O'Rourke)*

Continued backstopping of F/FRED for USAID S&T/RD, in association with the S&T/FENR and ANE/TR/ENR, focused on social science components. During 1989, the Social Forestry Coordinator prepared technical materials as part of the planning for Phase II of F/FRED. The second phase was redesigned with input by the evaluation team and with involvement by the Multipurpose Tree Species Network Steering and Research Committees and USAID offices. Future resources will be allocated for similar contract work in the field, rather than providing technical support from Washington.

### **F/FRED's Curriculum Activity**

The Social Forestry Coordinator managed a special activity that was highlighted by the workshop on "Social Science for Asian Forestry Curricula" Yale University Tropical Resource Institute, under a subcontract to Winrock, designed and conducted this workshop. It was cosponsored by FAO/RAPA (UN Food and Agriculture Organization, Regional Office for Asia and the Pacific) in Bangkok, through its Asian Forestry Educator's Network. A follow-up activity was held at the Institute of Forestry (Pokhara, Nepal) to further strengthen forestry curriculum development in Nepal and the region.

## Chapter 9

### Evaluation Results

---

In 1989, USAID contracted Tropical Research and Development, Incorporated (TRD), to carry out an end-of-project evaluation of the Forest Resources Management Project (FRM), with special focus on FSP. A three-member team performed the evaluation over a 3-month period. The team conducted interviews with US-based staff associated with FSP and individuals in the various Washington bureaus of USAID. Team members made field trips to selected USAID missions in Africa, Asia, and Latin America and sent questionnaires to those missions with forestry and natural resource programs that were not visited by the team. The results were delivered during oral presentations in Washington and in a final report titled *The Greening of USAID 1980-1990: An Evaluation of the Science and Technology Forest Resources Management Project and Forestry Support Program in Partnership with USDA and USFS*. The team emphasized FSP activities since the mid-term project evaluation that was conducted in cooperation with the Society of American Foresters and released in 1983.

The evaluation assessed FSP accomplishments and impacts, the management staff in USAID, the Forest Service, and OICD, and such FSP functions as technical assistance consultancies, information outreach, and the international skills roster. It also looked at relationships between FRM and other support projects, along with emerging development assistance problems. (For a historical perspective, see Appendix F for the FSP timeline.)

#### FSP Accomplishments and Impacts

The evaluation team found that FSP had done well in delivering its products and had directly or indirectly influenced many USAID activities in the forestry sector. Particularly praised were the work through FPEI in Ecuador, the establishment of the International Seminar on Forest Administration and Management at the University of Michigan, and the sponsorship of numerous workshops, conferences, training events, and publications. The team found that the broad goals of FRM, such as halting deforestation and relieving rural poverty, were not measurable in terms of defining specific impacts.

#### Management and Staff Evaluation

The staffs of the three US Government agencies (USAID, the Forest Service, and OICD) associated

with the management and implementation of FRM received high marks from the evaluation team. Professionals both within and outside of USAID universally expressed a favorable attitude toward the various staffs and high levels of satisfaction with the project performance. FSP has evolved into a major source of institutional memory and continuity on USAID natural resource and forestry issues. A measure of USAID satisfaction with FSP staff was the expressed interest by certain Washington-based bureaus to have FSP staff members physically located within their offices, to become more "a part of their bureau's 'culture'," rather than maintain solid identification with the Forest Service.

The team noted that FSP's responsive mode to USAID field mission needs tended to result in a relatively high amount of time spent on specific tasks, somewhat to the exclusion of a larger vision that could give coherence to those actions. FSP was found not to be "a part of the 'culture' of most field missions because of the regular and rapid turnover of professional personnel in the USAID offices." The team suggested that work plans for FSP technical coordinators, such as those done annually for training and education, might help provide a means for continuous measurement and assessment of actions implemented.

#### FSP Functions

USAID bureaus and missions expressed a high level of satisfaction with technical assistance consultations undertaken directly by FSP core staff or FSP-identified advisors. When Forest Service employees were used, long-term credibility and confidence in the working relationships developed. Through its international skills roster, FSP identified numerous private-sector consultants, including university faculty members, for foreign assignments. The evaluation team indicated that the forestry profession is perceived by some as being too narrowly focused to meet the evolving needs of USAID. It also indicated that some individuals perceived the use of Government employees for technical assistance assignments as potentially competing with the private sector.

The team found that FSP has performed well in promoting information exchange among professionals. There was clear consensus for continuing the FSP brown-bag seminars in Washington, DC, the monthly FSP Periodic Reports, the FSP Quarterly Memos, and the FSP Annual Reports. The team included the mailings of job vacancy announcements to

roster participants as part of the highly regarded information outreach efforts. It also found the FSP "open door" office policy useful because it provided a natural center for visiting foresters and resource managers from throughout the world during their visits to Washington, D C

The computerized FSP international skills roster is widely considered one of the best in existence and has been repeatedly imitated by private institutions and other Government agencies. Although it has consistently provided USAID and its collaborators with access to technical advisors, the evaluation team believed that the expanding agenda of natural resource management required an even wider array of technical experts on the roster.

### **Relations Between USAID Natural Resources Projects**

FSP has had strong operational links to several centrally funded USAID projects. Ties with NRMS and F/FRED involved significant financial contributions, which helped pay for training activities, advisor services, and a social forester on the FSP staff. FSP has worked closely with the USAID Development Strategies for Fragile Lands Project (DESFIL), through jointly funded overseas assignments and regular participation in the Fragile Lands Advisory Group (FLAG). Cooperation has been less frequent with projects focused elsewhere in S&T, such as Soil Management Support Services (SMSS). The evaluation team noted that FSP regularly provides such projects with all current reports mentioned above.

At the USAID mission level, FSP has weaker operational ties. The evaluation team pointed out that "forestry is often a part of large, multiple resource projects, such as MANRES in Thailand, hence, the primary interest may be in ecology rather than traditional forestry."

### **Emerging Development Assistance Programs**

FRM was designed with a considerable amount of useful flexibility, which has allowed changes in direction or new initiatives, as appropriate. FSP has evolved to meet the changing needs of USAID during the past decade, as expressed through FRM amendments and through the incremental fund transfer process to the Department of Agriculture. Although

the team felt that the need for general support for production forestry and research forestry at the mission level is declining. An increasingly diversified agenda in forestry is creating additional requirements for assistance in agroforestry, social forestry, entrepreneurial forestry, and forest policy.

### **Outlook**

The evaluation team concluded that USAID missions and bureaus desire continuation of most FSP services, including some level of programmatic and technical advisory support. The team indicated "virtual consensus" on the continuation of roster referral services, technical backstopping to missions and regional bureaus, information services and outreach through memorandums, reports, brown-bag seminars, and the distribution of job vacancy announcements, and training activities. All of these may be modified and improved in any followup to FRM (FRM II).

Additional services and functions emerging from the evaluation team for consideration in FRM II were as follows:

- Making the FSP technical continuity function explicit and systematic as the USAID "repository of agency forestry experience"
- Assuming a more proactive role, in addition to satisfying mission requests
- Maintaining flexibility when considering new technical initiatives, including a variety of potential administrative functions
- Expanding the scope of programmatic studies that explore potential new initiatives to include in FRM II, considering all renewable natural resources on forested lands and all rural land uses where trees are important elements in sustainable development
- Conducting regional and global studies on themes associated with "advances in development assistance in renewable natural resources management"
- Following up on lessons derived from two decades of social/community forestry activities

In a related effort, the FRM project officer commissioned, through OICD and the Forest Service, the preparation of five background papers to discuss potential new program initiatives identified as priorities by S&T/FENR. These were "Cooperation in Agroforestry," "Initiative on Underutilized Tropical Forest Products," "Innovative Propagation and

Establishment of Multipurpose Trees," "Initiative on Technology of Seeds from Multipurpose, Underutilized, and Endangered Tropical Tree Species," and "Biodiversity Concepts, Applications, and Support"

TRD analyzed the five papers and made recommendations concerning their potential applicability to include in a possible followup to FRM. They concluded that important regional differences often would require support tailored specifically to regional needs, rather than a single individual working out of Washington, D.C. The analysis, "Initiatives in Forestry Support: Synthesis of Commentary and Critiques of Five Initiatives Papers," also concluded that agroforestry (or forestry-agriculture interface) and underutilized species deserved further consideration as special initiatives. TRD did not feel that emerging USAID needs required special initiatives in FRM II in the areas of biological diversity (already ongoing, congressionally mandated, with an existing support project), tree seed technology (primarily institutional strengthening, which could be managed through modified training support), and innovative propagation technologies (still too experimental and primarily suited to large plantations).

TRD pointed out that FSP developed and refined a number of potentially useful features that might be applied to a wider spectrum of programs associated with sustainable agriculture. These include (1) a management team and core staff that is essentially from the Department of Agriculture but whose mission is to assist USAID, (2) a public service spirit and long-term commitment, (3) flexibility to initiate or drop programs, and (4) a successful combination of services and support functions.

They also identified several trends that should directly affect the outlook for followup by USAID to the FRM evaluation, as well as program themes that could be pursued as special initiatives. The trends relative to the initiatives are as follows:

- A shift from traditional forest management to questions of economics, information support, policy and planning, and conservation education
- Agroforestry continuing as an administrative and technical orphan, notwithstanding an increasing appreciation of the role of multipurpose trees in agricultural livelihoods

- An increasing concern being felt at all levels for economic consideration of natural resources management and utilization
- Spontaneous private actions in forestation and agroforestry being widespread, such as private nurseries and reforestation, figure importantly in national forestry plans (Microeconomics and appropriately scaled processing technologies for timber and nontimber products are important second generation problems, following the first generation problem of tree establishment and survival)
- Decentralization of forest and other natural resource management being in certain regions, such as Nepal, parts of India, and Sahelian Africa

The program themes identified for possible further consideration were (1) use of nonwood products, (2) use of lesser known or unknown wood species in production forests, (3) agroforestry and other forestry in agricultural regions, and (4) forest management.

The above considerations set the stage for entry into a new era of support activities to USAID in the area of natural resources management through the Department of Agriculture. A followup to the very successful FRM of USAID/S&T/FENR would undoubtedly build on experiences gained through FSP. During the coming year, USAID will contract independent experts to review such considerations as those above, as well as emerging development assistance programs, budgetary realities, all relevant congressional guidance, USAID natural resource management policies, multidonor strategies (such as the Tropical Forestry Action Plan), and other factors to develop a FRM II Project Identification Document (PID) and the relevant project paper.

Operational linkages would likely be incorporated with other USAID projects, especially those dealing with soil and water management, ruminants, and mixed livestock, crop, and agroforestry systems. Many of these projects already are implemented through RSSA's or Participating Agency Service Agreements (PASA's) with USDA and its various agencies. Whatever form FRM II takes, it will provide a significant basis for centrally USAID-funded cooperation work in natural resources management through the remainder of the century.

## Appendix A Profiles of Current FSP Staff

**Gary B Wetterberg**, the FSP Program Manager since February 1985, worked nearly a decade in Latin America in various capacities, including a 2-year (1967-69) forestry assignment with the Peace Corps in Chile and various FAO legislation and teaching assignments in Colombia, Peru, Paraguay, and Ecuador. As a senior FAO advisor to the Brazilian Forestry Development Institute from 1974 to 1978, he initiated the preparation of Brazil's Park System Plan. Dr. Wetterberg later served for 6 years as the Western Hemisphere program coordinator of the National Park Service, which he represented on assignments in Latin America, Portugal, India, Japan, Pakistan, Indonesia, and Spain. Previous Forest Service work in the United States includes 2 years with the Pacific Northwest Forest and Range Experiment Station and seasonal positions on three National Forests. A native of Colorado, Dr. Wetterberg holds B.S. and M.S. degrees in forestry from Colorado State University, as well as M.F.R. and Ph.D. degrees in forestry from the University of Washington. Languages: Conversationally fluent in Spanish and Portuguese.

**Patrick B Durst**, the FSP Coordinator for Asia and the Near East, has 12 years of professional forestry experience, including 7 years of international work. Before joining FSP, Mr. Durst served as an agroforestry extensionist with the Peace Corps in the Philippines, and as a Fulbright grantee, he analyzed the economics of Philippine wood energy and agroforestry projects. He also has worked as an assistant mensurationist with the Forest Service in Georgia, and he has conducted research on alternative enterprise opportunities for tropical wildlands, forest products trade statistics, tree farm economics, and contract reforestation while working at the Forest Service's Southeastern Forest Experiment Station. Before being appointed to his current position, Mr. Durst worked 2 years as FSP Special Projects Coordinator, beginning August 31, 1986. He has a B.S. degree in forest management from the University of Wisconsin at Stevens Point and an M.S. degree in forest economics from North Carolina State University. Languages: Good Cebuano and some Tagalog (both Philippine languages).

**Thomas F Geary**, the FSP Training and Education Coordinator, has 25 years of experience in research, development, technology transfer, and administration in tropical and subtropical forestry. He is a specialist in silviculture and tree improvement of fast-growing, short rotation plantations and has authored more than

50 publications. In Puerto Rico, he led an Institute of Tropical Forestry research project on the silviculture of tropical trees and trained foreign students in research techniques. In central southern Africa, he conducted research in tree physiology. He also has taught forest pathology at the State University College of Forestry in Syracuse, New York. Dr. Geary received a B.S. degree in botany from the University of Rhode Island and a Ph.D. degree in forest pathology from the University of Wisconsin. He entered on duty in 1982 as the FSP Coordinator for Asia and the Near East. Languages: Good Spanish, as well as some French, Portuguese, and German.

**Susan M Huke**, the FSP Forestry/Agriculture Coordinator, began her duty on July 17, 1989. She has been working in tropical forestry-agroforestry for more than 8 years, much of that time in East and Central Africa. Recent consulting assignments included coordinating IIED's Tropical Forest Policy Review in Zaire, advising the World Bank's Central Africa Region on potential wood energy and agroforestry projects for Zaire, and advising USAID's Rwanda Mission on forestry-agroforestry projects suitable for Rwandan uplands. Ms. Huke coordinated an agroforestry extension program for Save the Children Federation in the Lower Shebelle Region of Somalia and authored Save the Children's handbook "Planning for Agroforestry." She has worked in Kenya, Nigeria, Uganda, Jamaica, and Mexico and completed an M.F.S. degree from the Yale School of Forestry and Environmental Studies in 1983. Languages: Good French, with knowledge of Spanish, Swahili, and Somali.

**Kathryn L Hunter** started March 15, 1987, as the FSP Coordinator for Latin America and the Caribbean. Ms. Hunter also has served as Supervisory Forester on the Conecuh National Forest in Alabama, where she had primary responsibility for planning and administering the Timber Management Program. Her previous Forest Service experience includes nearly 6 years in various capacities on National Forests in Tennessee (Cherokee), North Carolina (Nantahala), and Louisiana (Kisatchie). Kathryn worked 2 years as a Peace Corps forester in Honduras and has traveled extensively throughout Central America. Ms. Hunter is a certified silviculturalist with an M.S. degree in forestry from Yale University. She has received letters of commendation and employee suggestion awards from the Forest Service and is listed in the Directory of Women in International Natural Resources. Ms.



*FSP Staff—Bottom Row—(left to right) Marcie Norris, Management Assistant, Sue Cummings, Secretary, Colleen Poonawala, Secretary, Kathryn Hunter, Coordinator for Latin America and the Caribbean, Gary Wetterberg Program Manager Top Row—(left to right) Tom Geary, Training and Education Coordinator, Brenda Coates-Jackson, Clerk-Typist, Tere O'Rourke, Special Projects Coordinator, Tim Resch, Food Aid and Voluntary Assistance Coordinator, Susan Huke, Forestry/Agriculture Coordinator, Pat Durst, Coordinator for Asia and the Near East (S Lampman)*

Hunter has been active in community affairs, including work with singing and theater groups, voter registration, and tutoring for illiterate adults. Languages: Conversationally fluent Spanish, working knowledge of French, and learning sign language.

**Therese M. O'Rourke** began as the FSP Special Projects Coordinator on June 5, 1989. The position requires coordinating FSP's budget, contracts, annual report, and computerized skills roster. Ms. O'Rourke most recently served as the city arborist in Alexandria, Virginia. She formerly held positions as an associate director of Urban Forestry at the American Forestry Association (AFA) in Washington, D.C., where she maintained a data base (similar to the FSP skills

roster) of 20,000 individuals and prepared congressional testimony regarding tropical and urban forestry, forest extensionist with the Peace Corps in Siguatepeque, Honduras, where she coordinated reforestation projects and environmental education programs, and village forester in La Grange, Illinois. Ms. O'Rourke has a forestry degree from Michigan State University, where she was selected "Senior of the Year" in 1984. She has been a contributing author to *American Forests* magazine and managing editor of the *Urban Forest Forum*. She recently received an Award of Special Recognition from the International Society of Arboriculture for legislative and public relations work for the Illinois Arborist Association. She also has been active in competitive swimming and

cross-country running Languages Conversationally fluent in Spanish

**Timothy M Resch**, the FSP Coordinator for Food Aid and Voluntary Assistance, holds an M S degree in forestry, with specialization in artificial regeneration and container-grown tree seedlings, from Colorado State University and a B S degree in forest resource management from the University of Minnesota. An expert in dryland forestry practices, he spent 4 years in Morocco as a Peace Corps volunteer, serving first as general manager of the Izarene Arboretum and Research Forest and later as manager of the Wildland Weather Station Network. In Morocco, he also was involved with P L 480 food aid-assisted forestry projects, a decade later, he participated in an evaluation of World Food Program efforts in tree planting and soil and water conservation. As FSP Coordinator for Africa for 5 years, Mr Resch provided substantial technical support to the Peace Corps survey of food aid forestry projects and subsequent program development. In 1983, he managed a consultancy that inventoried food aid-assisted forestry projects of USAID. Prior U S experience includes approximately 5 years with the South Dakota Division of Forestry and 2 years with the Forest Service at the North Central Forest Experiment Station in Minnesota. In 1984, he received a Certificate of Merit for his work in developing and managing the FSP roster of expertise. Languages: Fluent in French and Arabic, some Spanish.

**Marcie J Norris**, Management Assistant, began with FSP on January 31, 1988, as a secretary and was promoted to her current position in April 1989, as she

demonstrated her skills with roster maintenance and office procedures. She has received two Certificates of Merit and cash awards for her dedication and performance. Office management was her specialty in business school, and she is now expanding her education into computer programming and usage. Ms Norris is responsible for maintaining the roster, along with many other duties. She also serves as secretary for the Program Manager and the Special Projects Coordinator.

**Susan Cummings**, Secretary, has a B A degree in education from the University of Montana and has been with the Forest Service since March 27, 1989. She serves as secretary for the Program Coordinator for Asia and the Near East and for the Training and Education Coordinator. In addition to her education, she has had several training courses in such areas as editing and desk-top publishing. Languages: Some knowledge of Spanish.

**Colleen Poonawala**, Secretary, studied shorthand, typing, and accounting in business school and now serves as secretary for the Program Coordinator for Latin America and the Caribbean and the Forestry/Agriculture Coordinator. She began with the Forest Service in November 1987 and has had additional training in computers. Languages: Fluent in Burmese.

**Twana Simmons**, Clerk-typist, began with FSP in January 1990. She serves as the secretary to the Coordinator for Africa and the Coordinator for Food Aid and Voluntary Assistance.

## Appendix B FSP Overseas Technical Consultations by Region, Fiscal Years 1986–1989

Country	Dates	Names	Affiliation	Purpose of Trip
<b>AFRICA</b>				
<i>Fiscal Year 1989 Consultations</i>				
Burkina Faso	5/30–6/15	Tim Resch	FSP	Team Leader for the final evaluation of the USAID-financed Southwest Regional Reforestation Project
Kenya	11/27–12/13	Bruce Crossan	OICD	Administrative support for the "Tree Seed Technology Short Course for Forest Technicians"
Kenya	11/27–12/19	Franklin Bonner	Forest Service	Principal instructor at the "Tree Seed Technology Short Course for Forest Technicians," December 5–16, 1988
Kenya	12/3–12/19	John Vozzo	Forest Service	Assistance for the instruction of the "Tree Seed Technology Short Course for Forest Technicians"
Kenya	12/10–12/23	Thomas Geary	FSP	Administrative support and evaluation for the "Tree Seed Technology Short Course for Forest Technicians"
Kenya Uganda, Zambia, Zimbabwe, Botswana	8/21–9/16	Franklin Bonner	Forest Service	Evaluation of the effectiveness of the "Tree Seed Technology Short Course held in December 1988 and consultation on technical assistance and training needed in seed technology
<i>Fiscal Year 1988 Consultations</i>				
Botswana	4/22–5/13	Gary Wetterberg, LeRoy Duvall	FSP	Conducting of biological diversity and tropical forest assessment
Kenya	5/13–5/19	Don Messerschmidt	FSP	Review of Africa forestry activities, tour of International Council for Research in Agroforestry, review of Rwanda social forestry project plans
Niger	5/13–6/16	Tim Resch	FSP	Assistance with the writing of the project identification documents for the Forest Resources Management Project
Sudan	5/9–5/13	Don Messerschmidt	FSP	Lecture on social forestry, review of social forestry plans and activities
<i>Fiscal Year 1987 Consultations</i>				
Burundi	1/1–1/19	Dennis Johnson	FSP	Review of agroforestry activities
Cote d'Ivoire	4/24–5-3	LeRoy Duvall	FSP	Participation in Forestry Fuelwood Economics Workshop
Kenya	9/10–9/21	Thomas Geary	FSP	Exploration of opportunities to strengthen forestry education in eastern and southern Africa
Kenya	10/15–10/19	Tim Resch	FSP	Examination of Kenya-based private voluntary organizations' and non-governmental organizations' forestry activities

**Appendix B**  
**FSP Overseas Technical Consultations by Region, Fiscal Years 1986–1989 (continued)**

Country	Dates	Names	Affiliation	Purpose of Trip
Kenya	5/21–5/30	Tim Resch	FSP	Participation in a workshop on using Public Law 480 food aid for forestry
Kenya, Madagascar	7/12–8/23	James Seyler	Consultant	Design of a comprehensive natural resources management plan, development of a plan of cooperation for non-governmental organizations
Niger	8/25–9/20	Hans Schreuder	Forest Service	Evaluation of Forestry and Land Use Project
Senegal	1/2–2/1	Tim Resch	FSP	Evaluation of the forestry component of Public Law 480 programs
Senegal	1/13–2/21	Peter Freeman	Consultant	Assistance for watershed management planning for the Gambia River Basin Project
Sudan	4/20–5/4	H Gyde Lund	Forest Service	Assistance for Anti-Desertification Project
Sudan, Zimbabwe	6/15–7/22	Robert Potter	Consultant	Advice on restructuring of Sudanese forestry administration
Uganda	10/19–10/31	Tim Resch	FSP	Evaluation of Uganda Village Forestry Project
Zimbabwe	8/19–9/9	Thomas Geary	FSP	Participation in the International Symposium on Forest Seed Problems, visits to forestry training institutions

*Fiscal Year 1986 Consultations*

Burundi	7/2–7/4	Dennis Johnson	FSP	Review of the Burruri Forest Project
Kenya	6/24–7/1	Dennis Johnson	FSP	Analysis of agroforestry training needs with CARE and ICRAF
Kenya, Mali	1/7–2/2	Tim Resch	FSP	Participation in IUFRO Research Planning Workshop and Africa Forestry Commission of FAO
Lesotho	7/5–7/12	Dennis Johnson	FSP	Advice to USAID on CARE's Agroforestry Project
Madagascar	6/5–6/30	Richard Calnan	FSP	Feasibility study on carbonization of pine thinnings
Rwanda	8/2–8/30	Geoffrey Chandler	Forest Service	Advice to USAID on land management planning techniques for Ruhengeri Resource Project
Senegal	5/8–6/30	Ernst Pfeiffer	Contractor	Exploration of private-sector opportunities in forestry
Sudan	10/14–11/18	Diana De Treville	Contractor	Evaluation of CARE Eastern Refugee Reforestation Project
Sudan	10/17–11/7	Tim Resch	FSP	Evaluation of CARE Eastern Refugee Reforestation Project

**ASIA AND THE NEAR EAST**

*Fiscal Year 1989 Consultations*

American Samoa	1/13–1/24	Dennis Johnson	FSP	Participation in South Pacific Coconut By-Products Manufacturing Facility Feasibility Study
Indonesia	3/12–3/18	Patrick Durst	FSP	Meetings on the USAID Bureau for Africa and the Near East Natural Resources Strategy

Malaysia	6/2-6/10	Patrick Durst	FSP	Participation in a Regional Symposium on Recent Developments in Plantation Management in the Humid and Subhumid Tropics
Pakistan	3/5-3/12	Patrick Durst	FSP	Participation in an International Seminar on National Forest Policy
Philippines	2/20-3/5	Patrick Durst	FSP	Participation in Scientific & Technical Cooperation Exchange in Agroforestry
Thailand	11/25-12/4	Don Messerschmidt	FSP	F/FRED meetings on social forestry curriculum development
Thailand	4/29-5/27	Jerry DeGraff	Forest Service	Conducting of landslide hazard assessment
Thailand	6/27-7/1	Patrick Durst	FSP	Assistance with plans for a forestry and natural resources seminar for Thais
Tunisia	6/15-6/22	Tim Resch	FSP	Technical advice on the scope of work and survey instrument for an evaluation of the Public Law 480 Title I local currency use program

*Fiscal Year 1988 Consultations*

Indonesia	2/26-3/4	Dennis Johnson	FSP	Investigation of the potential of rattan for agroforestry and rural development
Morocco	10/1-10/15	LeRoy Duvall	FSP	Assistance in developing a biological diversity action plan
Nepal	10/18-10/28	Don Messerschmidt	FSP	Assistance in the design of forestry project identification document, attendance at mountain area research conference
Nepal	2/9-2/25	Dennis Johnson	FSP	Review of Dang/Deokhuri Agroforestry Project component of the Rapti Development Project
Nepal	4/11-5/15	Rich Calnan	FSP	Participation in the evaluation of USAID's Resource Conservation and Utilization Project
Nepal	4/18-5/5	Don Messerschmidt	FSP	Assistance in writing Social Soundness Analysis for Forestry Development Project, attendance at F/FRED Social Science Research Workshop
Pakistan	11/16-11/23	Don Messerschmidt	FSP	Participation in the F/FRED Arid Lands Workshop, conferring with USAID foresters, tour of forestry project sites and Pakistan Forestry Institute
Philippines	2/1-2/7	Patrick Durst	FSP	Review of the progress of contract reforestation activities
Thailand	10/28-11/6	Don Messerschmidt	FSP	Participation in Multipurpose Tree Species Workshop
Thailand	10/31-11/17	Dennis Johnson	FSP	Participation in F/FRED Multipurpose Tree Species Workshop and International Rattan Seminar
Thailand	1/8-1/31	Patrick Durst	FSP	Assistance to USAID mission with the design of new Natural Resources Management Project
Thailand	5/5-5/9	Don Messerschmidt	FSP	Consultation with F/FRED, teaching a unit at Regional Community Forestry Training Centre at Kasetsart University
Thailand	8/19-8/30	Patrick Durst	FSP	Participation in International Symposium on Nature Conservation and Tourism Development
Thailand	9/16-9/22	Don Messerschmidt	FSP	Attendance at F/FRED Social Forestry Curriculum Activities Advisory Board Meeting

**Appendix B**  
**FSP Overseas Technical Consultations by Region, Fiscal Years 1986–1989 (continued)**

Country	Dates	Names	Affiliation	Purpose of Trip
Tunisia	10/27–11/17	Tim Resch	FSP	Participation in a Peace Corps programming mission in support of World Food Program Integrated Rural Development Program
<i>Fiscal Year 1987 Consultations</i>				
India	2/19–3/2	Thomas Geary	FSP	Participation in the International Union of Forestry Research Organizations' Agroforestry Workshop for Rural Development, diagnosis of training needs
Morocco	9/21–10/15	LeRoy Duvall	FSP	Assistance in developing a biological diversity action plan
Philippines	10/1–10/18	Patrick Durst	FSP	Assistance with the redesign of the Rainfed Resources Development Project, study of potential for contract reforestation
Portugal	5/30–6/13	Dennis Johnson	FSP	Evaluation of agroforestry research in southern Portugal
Thailand	2/15–3/1	Dennis Johnson	FSP	Participation in World Resources Institute workshop on nongovernmental organizations and the AID Bureau for Asia and the Near East Agricultural Development Conference
<i>Fiscal Year 1986 Consultations</i>				
India	3/21–4/21	Thomas Geary	FSP	Development of training plan for social forestry projects
India, Pakistan	12/2–12/18	Thomas Geary	FSP	Development of Public Law 480 reseach priorities
Indonesia	9/27–10/12	Jack Muench	SCFER	FAO expert consultation and FPEI
Malaysia, Philippines	10/21–11/6	Thomas Geary	FSP	Preparation of annual work plan for ASEAN Watershed Project
Nepal	3/12–3/30	Cynthia Mackie	AAAS	Investigation of potential for agroforestry projects in Nepal
New Caledonia	4/13–4/18	Max McFadden	Forest Service	Investigation and development of action plan for insect defoliation of <i>Leucaena</i>
Philippines	11/8–11/28	Franklin Bonner	Forest Service	Advice to Philippine National Forest Tree Seed Certification Center
9Philippines	4/3–4/12	Max McFadden	Forest Service	Investigation and development of action plan for insect defoliation of <i>Leucaena</i>
Philippines	5/3–5/26	Paul Van Deusen	Forest Service	Instruction at the Forest Research Institute in biometrics and microcomputer applications
Philippines	9/13–10/20	Patrick Durst	FSP	Economic analysis of contract reforestation
Thailand	10/10–10/12	Jack Muench	SCFER	Investigation of potential for FPEI in Thailand
Thailand	9/4–9/13	Patrick Durst	FSP	Survey on economics of nature-related tourism
Tunisia	6/23–6/27	M Mecherqui	Tunisia	Presentation of a paper at the International Windbreak Technology Symposium at Nebraska

**LATIN AMERICA AND THE CARIBBEAN**

*Fiscal Year 1989 Consultations*

Belize	6/15-6/24	Kathryn Hunter	FSP	Assistance to Peace Corps with implementation of the Inter-American Environmental Education Workshop
Chile	11/20-11/24	Fernando Gueron	SCFER	Comparative Advantage Study
Chile	11/25-12/3	Jorge Cabrera	SCFER	FPEI Annual Meeting
Costa Rica	2/28-3/5	Jeff Prestemon	SCFER	FPEI fact-finding mission on Natural Forest Management in the Tropics
Costa Rica	5/14-Present	Jan Laarman	SCFER	Nature Tourism and Competitive Advantage
Costa Rica	7/31-8/8	Jan Laarman	SCFER	Trip to North Carolina for meeting
Costa Rica	10/1-10/16	Enrique Laso	SCFER	Comparative Advantage Study and meetings in Washington, DC
Costa Rica	10/5-10/15	Vincente Molinos	SCFER	Project transition
Costa Rica	10/9-10/12	Doug MacKinnon	SCFER	Assist transition and end of project
Ecuador	11/24-11/25	Jorge Cabrera	SCFER	Comparative Advantage Study
Ecuador	11/25-12/5	Fernando Gueron	SCFER	Annual Meeting in North Carolina
Ecuador	12/9-12/22	Doug MacKinnon	SCFER	Assistance with close of project in Ecuador
Ecuador	10/4-10/24	Jeff Prestemon	SCFER	FPEI fact-finding mission
Ecuador	3/5-3/17	Jeff Prestemon	SCFER	Comparative Advantage Study and coordination of Working Paper Series
Ecuador	4/3-4/6	Enrique Laso	SCFER	FPEI Annual Meeting
Ecuador	12/9-12/22	Martha Bricio	SCFER	Assistance in closing of project in Ecuador
Ecuador	12/9-12/22	Jan Laarman	SCFER	Assistance in closing of project in Ecuador
Guatemala, Costa Rica, El Salvador, Honduras, Panama	5/25-6/6	Vicente Molinos	SCFER	Project transition and fact-finding mission
Guatemala	3/31-4/6	Vicente Molinos	SCFER	FPEI Annual Meeting in North Carolina
Guatemala	11/6-11/12	Vicente Molinos	SCFER	Project transition
Haiti	2/1-2/18	LeRoy Duvall	FSP	Member of a design team for followup to the Agroforestry Outreach Project
Haiti	4/2-4/8	Dennis Johnson	FSP	Development of conservation strategy for Haitian palm
Honduras	2/14-2/22	Tom Geary	FSP	Coordination of FSP assistance to natural resource education activities of USAID and the Peace Corps
Honduras	3/23-9/2	Jesus Cota	Forest Service	Assistance for Honduran Ecological Association in environmental education workshop
Mexico	4/10-4/22	Kathryn Hunter	FSP	Help in evaluating environmental organizations and their projects throughout the country
Mexico	10/3-10/8	Jan Laarman	SCFER	Attendance at Man in the Biosphere Conference
Mexico	9/24-10/15	Therese O'Rourke	FSP	Assistance in environmental assessment of a Charcoal Production Project

**Appendix B**  
**FSP Overseas Technical Consultations by Region, Fiscal Years 1986–1989 (continued)**

Country	Dates	Names	Affiliation	Purpose of Trip
<i>Fiscal Year 1988 Consultations</i>				
Barbados, Antigua and Barbuda, St Kitts and Nevis, St Vincent, Grenada, Dominica, St Lucia, Montserrat, Trinidad and Tobago	6/27–7/18	Dan Nolan	Forest Service	Assistance with the Tropical Forestry Action Plan for the Eastern Caribbean
Barbados	9/1–9/4	Dennis Johnson	FSP	Briefing for the USAID Regional Development Office on the St Vincent Agroforestry Workshop
Bolivia	10/5–10/16	Kathryn Hunter	FSP	Teaching of an agroforestry training course to Center for Investigation of Land Use Capability of Bolivia (CUMAT) extensionists
Bolivia	10/12–10/22	Dennis Johnson	FSP	Teaching of an agroforestry training course to CUMAT extensionists
Brazil	5/11–5/22	Vicente Molinos	SCFER	Participation in International Union of Forestry Research Organizations Wood Utilization Group Technical Meeting
Chile	4/4–4/12	Lourdes Orejuela	CORMADERA	Study tour of Chilean wood construction industry
Colombia	2/17–2/21	F Prado	Consultant	Consultation with bamboo construction experts, review of bamboo silviculture research
Costa Rica	1/28–1/31	Vicente Molinos	SCFER	Attendance at Species Survival Commission meeting of International Union for the Conservation of Nature and Natural Resources (IUCN) and visits to USAID's regional forestry projects
Costa Rica	1/29–2/14	Dennis Johnson	FSP	Visit to USAID Regional Tree Crops Production Project and attendance at the IUCN General Assembly
Costa Rica	3/22–3/30	Gary Wetterberg	FSP	Exploration of opportunities for expansion of FPEI to Central America
Costa Rica, Guatemala	5/24–6/3	Vicente Molinos	SCFER	Exploration of opportunities for expansion of FPEI to Central America
Costa Rica	6/8–6/12	Doug MacKinnon	SCFER	Study of economic impact of the Organization for Tropical Studies
Costa Rica	6/8–6/16	Jan Laarman	SCFER	Participation in agroforestry course for Caribbean and Pacific Islands foresters with the Center for Tropical Agricultural Research and Training (CATIE)
Dominica	6/20–6/26	Dennis Johnson	FSP	Investigation of the economic impact of nature tourism
Ecuador	10/1–12/20	Robert Healy	SCFER	Research on employment and efficiency in the forest products industries of Ecuador
Ecuador	10/3–1/31	Jeff Prestemon	SCFER	Survey of agroforestry practices
		Michael Mussack	SCFER	

Ecuador	10/25–10/27	S Hanover N Wiedhans J Denig R Meekins	Consultants	Assessment of Ecuadorian wood products industry
Ecuador	12/6–12/11	Kathryn Hunter C Van Sickle Doug MacKinnon	FSP SCFER SCFER	Administrative visit to FPEI
Ecuador	1/19–6/29	Scott Lampman	SCFER	Survey agroforestry practices
Ecuador	3/3–3/8	Ralph Alig Denise Ingram	SCFER	Research on the competitiveness of Ecuador's forest products industry
Ecuador	3/3–3/15	Francisco Castano	Consultant	Assessment of the feasibility of commercial bamboo management in Ecuador
Ecuador	4/18–4/28	A Quezada	Consultant	Advice on the operation and maintenance of bandsaws
Ecuador	5/3–5/6	Robert Youngs	Consultant	Assessment of the wood products industry
Ecuador	6/11–6/18	Jan Laarman D Contesse C Donoso Glez de Moya J Rodriguez J Sosa A Lehnhoff	SCFER Consultants	Participation in the FPEI Private Forestry Initiative for Development (INFORDE) Jornadas Forestales
Ecuador	6/26–7/5	Robert Healy	SCFER	Investigation of the economic impact of nature tourism
Ecuador	7/3–7/16	Francisco Castano	SCFER	Assessment of the feasibility of commercial bamboo management in Ecuador
Grenada	5/16–5/20	Dennis Johnson	FSP	Assistance for the Regional Cocoa Rehabilitation and Development Project with the design of a demonstration plot
Guatemala	11/9–11/14	Gary Wetterberg	FSP	Address at the National Conference on Natural Resources
Guatemala	2/7–2/12	Kathryn Hunter Tim Resch	FSP	Participation in the Peace Corps Food Aid and Natural Resources Workshop
Guatemala, Honduras	2/29–3/10	Vicente Molinos	SCFER	Exploration of opportunities for expansion of FPEI to Central America
Guatemala	4/4–4/9	Kathryn Hunter	FSP	Participation in Central American Environmental Strategy Seminar sponsored by the USAID Regional Office for Central America Programs
Guatemala	7/6–7/14	Robert Healy	SCFER	Investigation of the economic impact of nature tourism
Guatemala	8/1–8/10	Vincente Molinos	SCFER	Exploration of opportunities for expansion of FPEI to Central America
Guatemala	8/7–8/14	Doug MacKinnon	SCFER	Plan for FPEI relocation to Central America
Guatemala	9/24–9/30	Kathryn Hunter Tim Resch	FSP	Assistance to USAID/Guatemala with the design of a food-aid-supported forestry project to be implemented by SHARE/Guatemala
Haiti	8/7–9/4	LeRoy Duvall	FSP	Assistance with the planning of the new Haiti Agroforestry Project
Honduras	2/1–2/6	Kathryn Hunter	FSP	Writing of the scope of work for the Honduras Forestry Development Project

**Appendix B**  
**FSP Overseas Technical Consultations by Region, Fiscal Years 1986–1989 (continued)**

Country	Dates	Names	Affiliation	Purpose of Trip
Honduras	8/1–8/6	Kathryn Hunter	FSP	Preliminary work for the Honduras Forestry Development Project
St Vincent	9/5–9/9	Dennis Johnson	FSP	Co-conducting of an agroforestry training workshop for the Forestry Department
<i>Fiscal Year 1987 Consultations</i>				
Antigua	8/29–8/31	Loren Ford	Forest Service	Advice on Peace Corps agroforestry projects
Barbados, Grenada, Honduras	10/1–10/7	Dennis Johnson	FSP	Collection of information on cacao agroforestry practices
Barbados, St Vincent	8/24–8/28	Loren Ford Kathryn Hunter	Forest Service	Assessment of erosion and social problems of the Cumberland River Hydroelectric Project and Watershed Management Project
Belize	3/1–3/7	Loren Ford	Forest Service	Assessment of USAID forestry project opportunities
Belize	8/10–8/18	Loren Ford	Forest Service	Assistance in developing a tropical forests and biological diversity action plan
Bolivia	7/26–8/2	Dennis Johnson	FSP	Planning of an agroforestry training course
Brazil	2/6–2/15	Vicente Molinos	SCFER	Coordination of training programs at wood products laboratories and wood industries
Costa Rica	1/26–1/31	Dennis Johnson	FSP	Presentation of an agroforestry paper at the Inter-American Cocoa Forum
Costa Rica	1/27–2/7	Jan Laarman	SCFER	Research on the economic impacts of nature tourism
Costa Rica	6/13–7/11	Loren Ford	Forest Service	Design of the insect and disease control strategy for CATIE
Costa Rica	6/15–6/22	Kathryn Hunter	FSP	Planning of a Pacific-Caribbean agroforestry course
Costa Rica	8/1–8/8	Jan Laarman	SCFER	Research on the economic impacts of nature tourism
Dominican Republic	1/12–1/16	Loren Ford	Forest Service	Review of forestry and fragile lands activities
Dominican Republic	8/16–8/22	Dennis Johnson	FSP	Participation in the Peace Corps Program Managers' Workshop on Agroforestry
Ecuador	5/15–5/24	Jan Laarman Denise Ingram Doug MacKinnon	SCFER	Review of progress of INFORDE's market demonstration project
Ecuador	8/3–8/7	Dennis Johnson	FSP	Technical assistance to the Ecuador Agroforestry Project
Ecuador	8/8–8/15	Jan Laarman	SCFER	Development of work plans for FPEI INFORDE for fiscal year 1988
Ecuador	8/25–9/30	Jeff Prestemon	SCFER	Coordination of a survey of income and employment in Ecuador's forest industries
Ecuador	10/1–12/15	Mystie Wilson	SCFER	Research on wildlands tourism
Ecuador	10/1–12/16	Michael Mussack	SCFER	Study of potential markets for eucalyptus poles
Ecuador	9/14–9/18	Kathryn Hunter	FSP	Participation in conference titled "Sustainable Uses on Steep Slopes"
Ecuador	2/5–9/30	Michael Mussack	SCFER	Research on the potential for sawmill improvement

Haiti	12/5-12/13	Joann Roskowski	Consultant	Assessment of the potential for mycorrhizae introductions into Agroforestry Outreach Project nurseries
Haiti	1/26-2/5	Loren Ford	Forest Service	Evaluation of research and tree improvement proposals for the Agroforestry Outreach Project
Haiti	5/27-6/2	Kathryn Hunter	FSP	Meeting with CARE and Pan-American Development Foundation project officials
Honduras	4/5-4/10	Gary Wetterberg	FSP	Evaluation of Forestry Development Project opportunities
Honduras	6/29-7/2	Kathryn Hunter	FSP	Writing of environmental assessment for the Forestry Development Project
Jamaica	10/6-10/17	Loren Ford	Forest Service	Technical advice to the Hillside Agriculture Project
Jamaica	10/8-10/11	Dennis Johnson	FSP	Assistance with the preparation of a project paper for the Hillside Agriculture Project
Jamaica	7/20-8/1	Loren Ford	Forest Service	Preparation of a report on the protection of biological diversity, development of a subproject proposal for the Hillside Agriculture Project
Mexico	3/10-3/23	Loren Ford	Forest Service	Participation in the United Nations Food and Agricultural Organization North American Forestry Commission Silviculture Study Group Secondary Forest Management Workshop
Panama	6/23-6/28	Kathryn Hunter	FSP	Meeting with Natural Resources Management Project officials

*Fiscal Year 1986 Consultations*

Argentina, Chile	3/5-3/21	Gary Wetterberg	FSP	Review of IUCN and FAO regional resource management activities
Barbados	7/27-8/3	Loren Ford	Forest Service	Participation in the USAID meeting on tropical forestry
Barbados, St Vincent	11/17-11/22	Mervin Stevens	FSP	Development of a forestry training plan
Bolivia	3/1-3/12	Vicente Maolinos	SCFER	Preliminary investigation of the wood products industry for FPEI
Bolivia, Ecuador	5/7-6/15	Janis Petriceks	Contractor	Exploration of private-sector opportunities in the forest industry
Brazil	7/7-7/14	Loren Ford	Forest Service	Discussion on the coordination of tropical forestry research with the National Research Institute
Costa Rica	2/6-2/12	Thomas Geary	FSP	Technical review of the <i>Agroforestry Training Manual</i>
Costa Rica	2/6-2/12	Gregory Garbinsky	USDA	Technical review of the <i>Agroforestry Training Manual</i>
Costa Rica	7/12-8/10	Jan Laarman	SCFER	Identification of researchers and setting of schedule for nature-related tourism research
Costa Rica	9/28-10/7	Dennis Johnson	FSP	Investigation of the use of cocoa in agroforestry
Costa Rica	8/17-8/21	Loren Ford	Forest Service	Investigation of the potential for cooperative research with the Forest Products Department
Costa Rica	7/17-7/20	Loren Ford	Forest Service	Discussion of forest products research needs with ROCAP officials
Dominican Republic	12/1-12/10	John Palmer	FSP	Participation in the USAID Regional Soil Conservation Conference
Ecuador	1/15-9/30	Ian McCormick	SCFER	Collection and analysis of data on forest plantation investments
Ecuador	10/27-11/8	John Palmer	FSP	Evaluation of agroforestry component of the Forest Section Development Project

**Appendix B**  
**FSP Overseas Technical Consultations by Region, Fiscal Years 1986-1989 (continued)**

Country	Dates	Names	Affiliation	Purpose of Trip
Ecuador	11/10-11/15	Jimmerson Seeburg Blanchat Chapin Clarke Banz	Contractors	Participation in the Wood Products Research Seminar
Ecuador	11/9-11/18	Martha Briccio	SCFER	Preparation of Wood Products Research Seminar, installation of the INFORDE computer system
Ecuador	5/2-5/17	H Van Der Slooten	Contractor	Evaluation of the wood products industry
Ecuador	5/20-7/10	Vicente Molinos	SCFER	Accompanying group of Ecuadorean wood producers on a tour of U S industrial facilities
Ecuador	5/31-10/30	Michael Mussack	SCFER	Research on the supply and demand of eucalyptus poles and posts
Ecuador	8/15-2/15	Mistie Ann Wilson	Contractor	Research on wildlands tourism
Ecuador	7/15-7/16	Loren Ford	Forest Service	Exploration of the potential for cooperation between the Forest Products Laboratory and FPEI
Ecuador, Bolivia	2/25-3/8	Jack Muench	FSP	Review of the market development component of FPEI
Guadeloupe	5/18-5/24	Loren Ford	Forest Service	Participation in the 3rd Congress of Caribbean Area Foresters
Guatemala	8/22-8/27	Loren Ford	Forest Service	Review of forest products plants and planning of future forest products research and technology transfer
Guatemala	4/6-4/12	Loren Ford	Forest Service	Participation in the Tree Crop Production Project Trimestral Planning meeting and assistance in the design of pine rust control activities
Haiti	1/15-2/4	John Palmer	FSP	Evaluation of the Agroforestry Outreach Project
Haiti	7/8-7/18	Loren Ford	Forest Service	Evaluation of the need for technical assistance in forestry
Haiti	6/10-6/20	Loren Ford	Forest Service	Investigation of insect infestation on <i>Leucaena</i>
Honduras	6/22-6/28	Thomas Geary	FSP	Development of training plan in forestry for USAID project personnel
Honduras	8/21-8/22	Loren Ford	Forest Service	Exploration of the potential for technology transfer and cooperative research in forest products
Panama	6/28-6/31	John Palmer	FSP	Review of the Natural Resources Management Plan
Peru	10/13-12/22	Raoul Gagne	Forest Service	Ince Province Watershed Management Plan
St Lucia	9/30-10/12	Carl Johnson	North Carolina Department of Forestry	Design of interpretive program in natural science
St Vincent	4/5-4/12	George Dissmeyer	Forest Service	Development of the Watershed Management Plan

OTHER

*Fiscal Year 1988 Consultations*

Australia	9/14-9/21	Dennis Johnson	FSP	Presentation of invited lecture "Economic and Ornamental Palms for the New World"
Canada	6/19-6/23	Doug MacKinnon	SCFER	Participation in the Forest Products Research Society Annual Meeting

*Fiscal Year 1987 Consultations*

England	9/19-9/25	Dennis Johnson	FSP	Participation in the International Symposium on New Crops for Food and Industry
Italy	5/25-5/28	Karl Van Orsdol	Consultant	Gathering of information on buffer zone agroforestry at FAO
Italy	6/2-6/5	Tim Resch	FSP	Consultation with officials of FAO's World Food Program
Sweden	9/12-9/18	Dennis Johnson	FSP	Presentation of a paper at a conference on systematic botany
Switzerland	5/28-6/6	Karl Van Orsdol	Consultant	Gathering of data on buffer zone agroforestry at IUCN

## Appendix C FSP Roster Use

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties
<i>Fiscal Year 1989 Roster Searches</i>					
10/03/88	FAO	Global	Italy	2,0	Agroforestry, horticulture
	FAO	Global	Italy	2,0	Agroforestry
	FAO	AFR	Ghana	2,0	Economics, anthropology
	FAO	Global	Italy	2,0	Remote sensing, French
	FAO	Global	Italy	2,0	Hydrology, watershed
	FAO	Global	Italy	2,0	Entomology, French
10/06/88	USAID/OICD	AFR	Lesotho	0,3	Soil conservation, range
10/07/88	USAID/ANE	ANE	Washington, DC	0,2	Watershed
	World Bank	AFR	Nigeria	0,5	Agroforestry, shelterbelts
10/10/88	Kuwait Inst	ANE	Kuwait	NL	Arid zone forestry
10/12/88	FAO	Global	Italy	2,0	Fisheries, Spanish or French
10/19/88	FAO	ANE	Morocco	3,0	Watershed, hydrology French
10/19/88	Forest Service/IF	USA	Puerto Rico	5,0	Administration, Spanish
10/20/88	FAO	ANE	Pakistan	1,0	Watershed, training
	FAO	ANE	Pakistan	5,0	Plantations, watershed
	FAO	ANE	Pakistan	4,0	Range, watershed, arid zones
	USAID/Cameroon	AFR	Cameroon	NL	Wildlife management, parks
10/21/88	US FWS	AFR	African Assignment	0,6	Wildlife, parks
11/01/88	VITA	AFR	Sudan	2,0	Agroforestry, agriculture
11/04/88	USAID/LAC	LAC	Haiti	0,6	Environment, agroforestry, French
11/15/88	FAO	Global	Italy	2,0	Communications, education
11/15/88	World Bank	LAC	Washington, DC	0,4	Biology, natural resources
	FAO	Global	Rome	2,0	Economics
12/01/88	USAID/ANE	ANE	Thailand	0,2	Disaster management, watershed
12/06/88	USAID/Haiti	LAC	Haiti	0,4	Agroforestry, French
12/13/88	S&T/FENR	Global	USA	0,8	Remote sensing, geology, mapping
12/16/88	FAO	ANE	India	0,16	Fire management, training
12/19/88	USAID/Sudan	AFR	Khartoum	2,0	Agroforestry, arid zone forestry
01/03/89	Conservation Intl	LAC	Washington, DC	2,0	Project planning, Spanish
	FAO	Global	Italy	2,0	Fisheries, Spanish or French
01/04/89	USAID/Forest Service	LAC	Honduras	2,0	Sawmills, forest products
	FAO	Global	Rome	2,0	Remote sensing, geography GIS
01/05/89	USAID/Morocco	ANE	Morocco	0,4	Economics, French
	USAID/Morocco	ANE	Morocco	0,4	Anthropology, sociology, French
	USAID/Morocco	ANE	Morocco	0,4	Watershed management French
01/06/89	USAID/LAC	LAC	Washington, DC	NL	Natural resources, watershed
01/10/89	USAID/OICD	LAC	Washington, DC	2,0	Natural resource planning, Spanish

**Appendix C**  
**FSP Roster Use (continued)**

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties
01/11/89	USAID/Winrock	ANE	Pakistan	NL	Research, Training
01/11/89	US FWS	ANE	India	0,12	Wildlife management
01/12/89	FAO	LAC	Chile	2,0	Fisheries, Spanish
01/13/89	USAID/CATIE	LAC	Costa Rica	2,0	Agroforestry, research, Spanish
01/23/89	S&T/FENR	AFR	Senegal	0,8	Energy, charcoal, French
	S&T/FENR	AFR	Senegal	0,8	Biological diversity, French
	S&T/FENR	AFR	Senegal	0,8	Secondary forest products, French
	S&T/FENR	AFR	Senegal	0,8	Operational mgmt , research
	S&T/FENR	AFR	Senegal	0,12	Wildlife mgmt , parks, French
	S&T/FENR	AFR	Senegal	0,8	Fisheries, French
	USAID/Thailand	ANE	Thailand	0,4	Ecology, parks, environment
	USAID/Thailand	ANE	Thailand	0,4	Resource Economics
01/27/89	Forest Service/IF/FSP	Global	Washington, DC	NL	RPCVs
01/31/89	World Bank	LAC	Brazil	0,5	Land use planning, Portuguese
02/02/89	World Bank	LAC	Colombia	NL	Watershed, Spanish
02/14/89	USAID/Dakar	ANE	Bangladesh	0,4	Natural resources management
	USAID/Dakar	ANE	Bangladesh	0,4	Natural resources assessment
02/15/89	USAID/Bangkok	ANE	Thailand	0,4	Coastal hydrology
	USAID/Bangkok	ANE	Thailand	0,4	Sociology, anthropology, forestry
02/17/89	FAO	LAC	Chile	2,0	Fisheries, Spanish
02/22/89	USAID/Honduras	LAC	Honduras	0,8	Plantation establishment, Spanish
	USAID/Honduras	LAC	Honduras	0,8	Economics, Spanish
03/02/89	Peace Corps	Global	Washington, DC	0,12	Environmental education
03/14/89	USAID/ANE	ANE	Philippines	0,8	Agroforestry, project design
03/15/89	OICD	LAC	Washington, DC	NL	Agriculture, marketing, Spanish
03/17/89	S&T/FENR	AFR	Senegal	0,5	Land use planning, French
03/20/89	Forest Service/IF/FSP	Global	Washington DC	2,0	Agroforestry, agriculture
03/29/89	Forest Service/IF/FSP	Global	Washington, DC	0,2	Biological diversity, silviculture
03/30/89	FAO	Global	Italy	1,24	Tropical forestry, AFR experience
03/31/89	FAO	Global	Italy	1,24	Social forestry, Asia experience
04/04/89	USAID/AFR	AFR	Mali	0,8	Ecology, environmental law
04/07/89	ANL	ANE	Nepal	5,0	Research, forestry
04/12/89	IUCN	AFR	Madagascar	0,4	Agroforestry, parks, French
	IUCN	ANE	Indonesia	0,4	Natural resources silviculture
04/20/89	USAID/AFR	AFR	Africa assignments	0,8	Range management, French
04/23/89	FAO	LAC	Italy	2,0	Economics, Spanish
04/26/89	USAID/ROCAP	LAC	ROCAP	NL	Anthropology, sociology
05/01/89	USAID/DASP	AFR	Senegal	0,8	Training, pesticides
05/02/89	USAID/AFR	AFR	Rwanda	2,0	Agroforestry, French
	USAID/VA Tech	AFR	USA	0,2	Natural resources, French

05/11/89	USAID/FAO	Global	Global assignments	NL	Forestry law, administration
	USAID/Forest Service	LAC	Honduras	2,0	Spanish
	USAID/Forest Service	LAC	Honduras	0,4	Business mgmt , computers
	FAO	LAC	Italy	2,0	Natural resources, Spanish
05/16/89	USAID/Quito	LAC	Ecuador	2,0	Training, parks, Spanish
	USAID/ANE	ANE	Philippines	0,6	Economics, fisheries, forestry
05/23/89	USAID/FSP	ANE	Washington, DC	0,4	Asia experience
	USAID/FSP	AFR	Washington, DC	0,4	Africa experience
05/26/89	USAID/REDSO/ESA	AFR	Sudan	0,6	Natural resources management
05/30/89	USAID/Senegal	AFR	Senegal	0,8	Wildlife, French
05/31/89	ITTO	Global	Japan	2,0	Administration, French or Spanish
	ITTO	Global	Japan	2,0	Environment, biology
06/05/89	FAO	Global	Italy	2,0	Sawmills, forest products
	FAO	Global	Italy	2,0	Natural resources, French
06/06/89	FAO	Global	Italy	2,0	Agroforestry, watershed, forestry
06/08/89	FAO	Global	Italy	2,0	Project planning, operational
	USAID/SRAAD	AFR	Sudan	ST	Agroforestry, Arabic
06/13/89	Forest Service/IF	AFR	Malawi	0,1	Africa experience
	USAID/OICD	AFR	Ivory Coast	0,4	Training, French
	Peace Corps	LAC	Paraguay	0,8	Agroforestry, Spanish
06/14/89	USAID/AFR	AFR	Somalia	2,0	Range management
06/22/89	World Bank	AFR	Africa assignments	0,6	Forest economics, French
	World Bank	AFR	Mozambique	0,3	Project design, Portuguese
	World Bank	AFR	Africa assignments	0,6	Forestry, project design, French
06/27/89	USAID/LAC	LAC	Guatemala	0,10	Policy analysis, economics, Spanish
	FAO	ANE	Indonesia	0,8	Watershed, hydrology
	FAO	Global	Italy	2,0	Land use planning, natural resources
06/29/89	USAID/FSP	AFR	Washington, DC	2,0	Africa experience, French
06/30/89	USAID/Nepal	ANE	Nepal	1,0	Administration, economics
	Forest Service/IF	Global	Ann Arbor, MI	3,0	Training, extension, project planning
07/03/89	World Bank	LAC	Venezuela	0,4	Natural resources, Spanish
	USAID/Jakarta	ANE	Indonesia	0,10	Project design, training
	FAO	AFR	Malawi	0,1	Mensuration, Africa experience
07/05/89	World Bank	ANE	Asia assignments	NL	Biological diversity, botany, parks
	USAID/LAC	LAC	Washington, DC	2,0	Project planning, Spanish
07/06/89	OICD	AFR	Washington, DC	2,0	Economics, forestry, administration
07/10/89	FAO	Global	Italy	2,0	Training, extension
07/18/89	WWF	LAC	Ecuador	ST	Harvesting Spanish
	USAID/Burkina Faso	AFR	Burkina Faso	ST	Parks, wildlife, French
	USAID/FVA	Global	Global assignments	ST	Agriculture, project planning
07/19/89	Peace Corps	AFR	Togo	0,6	Horticulture
07/20/89	OTA	Global	Washington, DC	NL	Policy analysis, administration
	USAID/Forest Service	LAC	Honduras	1,24	Administration, Spanish
	USAID/Senegal	AFR	USA	0,2	Natural resources French
07/24/89	S&T/FENR	Global	Washington, DC	2,0	Economics, natural resources
	USAID/AFR	AFR	Niger	0,4	Arid zone forestry, French

**Appendix C**  
**FSP Roster Use (continued)**

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties
07/26/89	Conservation Found	Global	Washington, DC	2,0	Natural resources, policy analysis
07/31/89	OICD	Global	Washington, DC	1,0	Project planning, French
08/01/89	Forest Service/IF/DASP	Global	USA	0,2	Fire management, Portuguese
	Forest Service/IF	AFR	Sudan	1,24	Mensuration, Arabic
08/04/89	USAID/LAC	LAC	Washington, DC	2,0	Entomology, pesticides, Spanish
	USAID/Jakarta	ANE	Indonesia	0,6	Research, Asia experience
	USAID/Jakarta	ANE	Indonesia	0,10	Economics, project planning
	FAO	LAC	Chile	2,0	Hydrology, Spanish
08/08/89	USAID/Quito	LAC	Ecuador	0,20	Biological diversity, Spanish
	USAID/Quito	LAC	Ecuador	0,20	Training, environment, Spanish
	FAO	LAC	Ecuador	0,24	Natural resources mgmt , Spanish
	S&T/FENR	Global	Arlington, VA	NL	Administration, geography, computers
08/16/89	USAID/India	ANE	India	1,12	Economics, natural resources
	USAID/India	ANE	India	1,12	Silviculture, forestry, plantations
	USAID/India	ANE	India	1,12	Mensuration
08/22/89	FAO	LAC	Italy	2,0	Economics Spanish
	IRG	AFR	Sudan	2,24	Agroforestry, agronomy, Arabic
08/25/89	World Bank	LAC	Brazil	0,4	Silviculture, natural resources
	FAO	ANE	Italy	2,0	Project planning, operational
	FAO	Global	Italy	2,0	Research, administration
	FAO	Global	Italy	2,0	Policy analysis, sociology
08/29/89	S&T/FENR	AFR	Niger	2,0	Policy analysis, French
	USAID/Jakarta	ANE	Indonesia	0,6	Economics, Asia experience
08/31/89	USAID/ANE	ANE	Nepal	NL	Nepal experience
09/01/89	IF/FSP	ANE	Washington, DC	0,4	Asia or Near East experience
09/05/89	APHIS	AFR	Chad	NL	Project planning, wildlife, biology
	NFTA	Global	Hawaii	2,0	Administration, research
	USAID/Nepal	ANE	Nepal	3,0	Administration, Asia experience
09/07/89	S&T/FENR	LAC	Guatemala	0,5	Forest products, sawmills, Spanish
09/08/89	FAO	Global	Italy	2,0	Communications, writing, extension
09/12/89	S&T/FENR	Global	Global assignments	NL	Anthropology, Asia experience
	S&T/FENR	Global	Global assignments	NL	Sociology, LAC experience
	S&T/FENR	Global	Global assignments	NL	Sociology, Africa experience
09/20/89	FAO	AFR	Mozambique	0,3	Training, university instruction
09/21/89	ITTO	Global	Yokohama	2,0	Economics, computers
09/22/89	USAID/Cameroon	AFR	Cameroon	ST	Forest products marketing, French
09/25/89	OICD	AFR	Congo	0,6	Forestry, natural resources, French
09/27/89	FAO	Global	Italy	2,0	Forestry, Spanish

*Fiscal Year 1988 Roster Searches*

10/6/87	USAID	Global	Washington, DC	3,0	Ecology, botany, wildlife management
	USAID	LAC	Washington, DC	3,0	Ecology, botany, plant science, Spanish
10/9/87	USAID	LAC	Guatemala	2,0	Environment, land use planning, Spanish
10/13/87	USAID/U Minn	LAC	Costa Rica	2,0	Economics, Spanish
10/16/87	USAID	ANE	Nepal	4,0	Administration
	USAID	ANE	Nepal	0,12	Policy, administration, legislation
10/20/87	USAID	ANE	Indonesia	0,4	Economics, policy
10/23/87	World Bank	ANE	Nepal	0,4	Training
	USAID	LAC	Costa Rica	1,24	Extension, Spanish
	USAID	LAC	Peru	2,0	Project management, Spanish
10/28/87	USAID/CARE	AFR	Sudan	0,5	Anthropology, sociology
	USAID	AFR	Sudan	0,3	Arid-zone forestry, policy
	USAID	AFR	Sudan	0,3	Arid-zone forestry, project management
10/29/87	Peace Corps	AFR	Niger	0,12	Arid-zone forestry, training, French
11/18/87	USAID	AFR	Sudan	0,4	Anthropology, sociology, extension
11/23/87	USAID	LAC	Peru	2,0	Forest management, Spanish
12/3/87	USAID/Yale U	Global	United States	5,0	Ecology, botany, research
12/8/87	USAID/Forest Service	Global	Global assignments	2,0	Anthropology, sociology
12/9/87	USAID/DASP	LAC	Argentina	0,4	Fire management, disaster management
	World Bank	LAC	Mexico	0,5	Land use planning
12/12/87	AIT	ANE	Thailand	3,0	Communications, anthropology
	AIT	ANE	Thailand	3,0	Environmental assessment, range
12/14/87	World Bank	LAC	Mexico	0,5	Harvesting, Spanish
12/16/87	World Bank	LAC	Brazil	0,8	Extension, Portuguese
12/23/87	USAID	ANE	Egypt	0,4	Biology, fisheries, Near East experience
12/28/87	ITTO	ANE	Japan	7,0	Sawmilling products
	USAID	AFR	Sudan	0,5	Sociology, anthropology
12/30/87	USAID/Forest Service	LAC	Honduras	2,0	Forest management, silviculture, Spanish
	USAID/Forest Service	LAC	Honduras	2,0	Communications, computers, Spanish
	USAID/Forest Service	LAC	Honduras	2,0	Sawmilling, products, Spanish
1/5/88	Ford Foundation	ANE	Thailand	3,0	Agroforestry, economics, anthropology
	Ford Foundation	ANE	Philippines	3,0	Agroforestry, sociology
1/7/88	USAID	ANE	Nepal	0,6	Watershed management, hydrology
1/7/88	USAID	ANE	Nepal	0,6	Policy, economics
1/12/88	FAO	Global	Italy	2,0	Agroforestry, agronomy
1/13/88	Peace Corps	Global	Global assignments	2,0	Natural resource management
1/14/88	USAID	AFR	Niger	0,6	Economics, land use assessment, French
	USAID	AFR	Niger	0,6	Arid-zone forestry, silviculture, French
	USAID	AFR	Niger	0,6	Biometrics, mensuration, French
1/15/88	USAID	LAC	Haiti	0,2	Entomology, French, Creole
1/19/88	USAID	ANE	Nepal	0,6	Sociology, anthropology
1/20/88	World Bank	LAC	Mexico	0,3	Roads, engineering, Spanish
1/22/88	World Bank	LAC	Mexico	0,3	Harvesting, Spanish
1/26/88	AIT	ANE	Thailand	5,0	Forest management, silviculture

**Appendix C**  
**FSP Roster Use (continued)**

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties
1/27/88	World Bank	ANE	Bhutan	0,24	Range management, soil science
1/29/88	USAID	AFR	Niger	0,4	Project design, French
2/5/88	USAID	AFR	Rwanda	0,3	Agroforestry, policy, French
2/8/88	USAID/IIED	AFR	Burundi	0,4	Private voluntary organizations, French
2/17/88	USAID	LAC	Jamaica	0,2	Park management, environmental assessment
2/19/88	USAID	AFR	Niger	2,0	Project management, French
3/1/88	USAID/Forest Service	LAC	Honduras	0,12	Project design, land use planning
	FAO	Global	Italy	0,8	Harvesting
	USAID	AFR	Sudan	2,0	Arid-zone forestry, agroforestry
3/2/88	USAID	LAC	Costa Rica	2,0	Anthropology, sociology, computers
3/8/88	USAID/STC	AFR	Somalia	0,4	Somalia experience, project design
	OICD	LAC	Washington, DC	2,0	Administration, project management
	USAID	LAC	Belize	0,4	Economics
3/14/88	Forest Service	ANE	Saipan	2,0	Asia experience, US Government employee
3/15/88	USAID	ANE	Burma	0,4	Agroforestry, Asia experience
	OPIC	LAC	Costa Rica	0,4	Forest management, Spanish
3/21/88	USAID	LAC	Peru	2,0	Land use planning, Spanish
3/21/88	USAID	LAC	Belize	0,3	Park management
3/22/88	USAID/DASP	ANE	Morocco	0,12	Aviation, disaster management, French
	FAO	ANE	Philippines	0,5	Fire Management
3/23/88	IUCN	AFR	Uganda	1,0	Agroforestry, land use planning
3/31/88	USAID	ANE	Oman	1,0	Environmental assessment, policy, Arabic
	USAID	ANE	Oman	1,0	Watershed management hydrology
	USAID	AFR	Niger	0,5	Agroforestry, soil science, research
4/6/88	USAID/DAI	AFR	Rwanda	3,0	Economics French
	USAID	LAC	Haiti	1,24	Agroforestry, French, Creole
	USAID	LAC	Haiti	1,24	Economics, French, Creole
	USAID/DASP	Global	Global assignments	0,4	Disaster management
4/7/88	USAID	AFR	Guinea	0,5	Agroforestry, watershed management
	USAID	AFR	Guinea	0,5	Anthropology, sociology, French
4/13/88	World Bank	LAC	Mexico	0,4	Agroforestry, forest management, Spanish
4/14/88	USAID	ANE	Nepal	0,8	Land use planning, remote sensing
4/22/88	USAID	LAC	Costa Rica	0,6	Harvesting, forest management, Spanish
4/27/88	IUCN	Global	Switzerland	2,0	Writing, Spanish, French
4/28/88	USAID	Global	Washington, DC	1,0	Computers
5/2/88	USAID/Forest Service	Global	Washington, DC	0,4	Education, extension
5/3/88	FAO	ANE	Nepal	3,0	Anthropology, sociology, cooperatives
5/5/88	Peace Corps	AFR	Washington, DC	0,12	Writing, French
5/6/88	USAID/Winrock	ANE	Thailand	0,8	Tree improvement, seed technology
5/10/88	USAID	AFR	Ghana	0,3	Training, education, extension

	IDB	LAC	Brazil	0,8	Ecology, environment, Spanish, Portuguese
5/11/88	USAID	LAC	Haiti	0,4	Agroforestry, economics
5/12/88	World Bank	LAC	Haiti	0,8	Project design, Haitian experience
5/17/88	USAID	AFR	Rwanda	0,2	Economics, policy, marketing
5/18/88	FAO	ANE	Bhutan	1,0	Silviculture, research
	USAID	AFR	African assignments	2,0	Agroforestry, wildlife management, French
5/25/88	World Bank	ANE	Indonesia	2,0	Economics, policy
5/26/88	FAO	Global	Italy	2,0	Economics, sociology, communications
5/27/88	FAO	ANE	Bhutan	2,0	Nursery management, plantations
6/2/88	FAO	Global	Italy	2,0	Legislation, policy
6/3/88	USAID	LAC	Costa Rica	3,0	Policy, administration
6/8/88	IUFRO	LAC	Brazil	0,1	Products, utilization, sawmilling
	USAID/IIED	LAC	Guatemala	0,3	Economics, anthropology, Spanish
	AOD/IIED	LAC	Guatemala	0,3	Park management, Spanish
	USAID/IIED	LAC	Guatemala	0,3	Ecology, plant science, botany, Spanish
6/13/88	WFP	Global	Italy	3,0	Writing, communications
6/14/88	USAID/Forest Service	Global	Global assignments	0,2	Agroforestry, training, ecology
	USAID/Forest Service	Global	Global assignments	0,2	Extension, agroforestry, ecology
6/24/88	USAID/WWF	Global	Washington, DC	5,0	Project management, administration
6/27/88	USAID/VITA	AFR	Sudan	2,0	Agroforestry, nursery management, Arabic
6/27/88	FAO	Global	Italy	2,0	Economics
6/27/88	FAO	Global	Italy	2,0	Economics, agriculture
	FAO	LAC	Argentina	1,0	Economics, agriculture, Spanish
	FAO	Global	Italy	2,0	Hydrology
6/28/88	USAID/Forest Service	ANE	Washington, DC	2,0	Asia experience, US Government employee
7/1/88	FAO	Global	Italy	2,0	Harvesting, utilization, products
7/4/88	USAID/Forest Service	ANE	Washington, DC	0,4	FS employees, Asia experience
7/5/88	ISTF	Global	Washington, DC	5,0	Writing, Spanish
	USAID	ANE	Indonesia	0,12	Project design, administration
	USAID	ANE	Indonesia	0,8	Land use planning, policy, Bahasa
	USAID	ANE	Indonesia	0,20	Park management, biology, Bahasa
7/21/88	USAID/Forest Service	AFR	United States	0,1	French, FS employee, African experience
	USAID/Forest Service	Global	Washington, DC	0,12	Plant science, tree improvement
7/26/88	FAO	Global	Italy	2,0	Harvesting, products, utilization
	FAO	Global	Italy	2,0	Forest management, Spanish, French
	FAO	Global	Italy	2,0	Project management, Spanish
	FAO	AFR	Italy	2,0	Project management, French
7/28/88	FAO	ANE	Indonesia	2,0	Remote sensing, mapping
	FAO	ANE	Indonesia	2,0	Biometrics, Mensuration
	FAO	ANE	Indonesia	4,24	Biometrics, project management
8/1/88	USAID	LAC	Ecuador	0,4	Entomology, Spanish
8/2/88	USAID	LAC	Dominican Republic	0,3	Writing, Spanish
8/3/88	FAO	LAC	Honduras	2,0	Project management, administration
	USAID	LAC	Guatemala	2,0	Roads, Spanish
8/4/88	USAID/CARE	AFR	Rwanda	2,0	Agroforestry, French
	USAID/CARE	AFR	Regional assignment	2,0	Agroforestry, French

**Appendix C**  
**FSP Roster Use (continued)**

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties
8/10/88	USAID	ANE	Regional assignment	0,5	Computers
8/18/88	FAO	AFR	Italy	2,0	Economics, policy, French
8/29/88	CATIE	LAC	Costa Rica	2,0	Agroforestry, education, Spanish
8/30/88	USAID/Forest Service	LAC	Honduras	2,0	Watershed management, Spanish
9/8/88	WWF	FUR	Greece	1,0	Wildlife management, Greek
9/12/88	FAO	LAC	Chile	2,0	Communications, writing, Spanish
9/13/88	OICD	EUR	Washington, DC	1,0	Peace Corps experience, Spanish
	FAO	Global	Italy	2,0	Project management, French
9/14/88	USAID	ANE	Bangladesh	0,4	Watershed management, hydrology
9/21/88	USAID/DASP	Global	Washington, DC	2,0	Disaster management
	USAID/NFTA	Global	Hawaii	2,0	Writing, communications
	USAID/WWF	Global	Washington, DC	1,0	Botany, ecology, Spanish, Portuguese
	USAID	LAC	Peru	0,2	Watershed management, hydrology
	USAID/WWF	Global	Washington, DC	2,0	Policy
9/23/88	USAID/Forest Service	Global	Washington, DC	2,0	Project management
9/27/88	USAID/WWF	Global	Washington, DC	3,0	Biology, ecology, project management
<i>Fiscal Year 1987 Roster Searches</i>					
10/1/86	NFTA	ANE	Hawaii	2,0	Agroforestry
	ARD	ANE	Pakistan	2,0	Agronomy
	FAO	EUR	Italy	2,0	Harvesting
	ICRAF	AFR	Kenya	2,0	Agroforestry
	CATIE	LAC	Costa Rica	2,0	Biometrics, mensuration
				2,0	Sociology, communications
				2,0	Ecology, botany
11/1/86	Forest Service	AFR	Washington, DC	0,8	FS, Africa
	World Bank	AFR	Washington, DC	0,2	Economics
	Forest Service	AFR	Washington, DC	2,0	FS USGO, French
	USAID	ANE	Pakistan	0,13	Economics
11/10/86	Forest Service	LAC	Honduras	0,4	Fire, Spanish
11/13/86	Forest Service	LAC	Washington, DC	2,0	FS, USGO, Spanish
11/15/86	World Bank	AFR	Ghana	0,2	Economics 11/20/86
	World Bank	ANE	Bhutan	0,5	Economics
				0,5	Entomology
12/1/86	USAID	LAC	Ecuador	0,4	Products, utilization, furniture
		AFR	Washington, DC	2,0	Forestry French
	PADF	LAC	Haiti	2,0	Agroforestry, nursery management
	USAID (DESFIL)	LAC	Ecuador	1,0	Agroforestry
	U of Florida	Global	Florida	1,0	Agroforestry

	World Bank	LAC	Dominican Republic	0,4	Economics
	Forest Service	Global	Global study	0,4	Agroforestry
12/3/86	FAO	ANE	Thailand	2,0	Extension
	Forest Service	Global	Global assignments	0,4	Soil science, hydrology
12/24/86	U of Maine	LAC	Haiti	2,0	Silviculture
1/12/87	Winrock	ANE	Pakistan	2,0	Training
1/21/87	IDB	LAC	Ecuador	0,6	Economics, plantation management
	FAO	AFR	Regional	0,12	Range management
	OICD	AFR	Regional	0,8	Entomology, French
				0,8	Entomology
	Peace Corps	LAC	Paraguay	0,4	Project design
	USAID	LAC	Panama	1,0	Business management, communications
				2,0	Policy, management
1/23/87	Forest Service	Global	Washington, DC	0,6	Data processing
	USAID	LAC	Mexico	0,1	Charcoal
1/27/87	USAID	ANE	Portugal	0,3	Agroforestry
2/9/87	USAID	ANE	ASEAN	0,4	Watershed management
		LAC	Honduras	2,0	FS employees
	USAID	LAC	Honduras	3,0	FS, Latin America experience
				2,0	FS, Honduras experience
2/17/87	USAID	LAC	Honduras	0,2	Road construction, harvesting
		LAC	Peru	0,6	Silviculture, management
			Regional	2,0	Environment
3/4/87	USAID	AFR	Senegal	0,4	Economics, French
3/6/87	USAID	Global	Global assignments	2,0	Agroforestry
		LAC	Bolivia	0,7	Agroforestry, plantation management
	FAO	EUR	Italy	3,0	Sawmills, utilization
				3,0	Engineering, harvesting, roads
3/16/87	Forest Service	Global	Washington, DC	0,10	Natural resources, parks and recreation
	OICD	AFR	Regional	0,6	Range management
	USAID	LAC	Bolivia	0,4	Geology, engineering
3/24/87	USAID	LAC	Regional	2,0	Environment, natural resources
3/30/87	USAID	AFR	Sudan	0,2	Remote sensing, mensuration
4/3/87	FAO	ANE	Bhutan	2,0	Silviculture, forest management
			Bangladesh	1,0	Land use assessment
			Burma	1,0	Agroforestry
	USAID	LAC	Haiti	2,0	Economics
				2,0	Nursery establishment
4/6/87	World Bank	ANE	Indonesia	0,4	Soil science, watershed management
	USAID	ANE	Portugal	0,2	Agroforestry, economics
			Pakistan	0,12	Forestry
				0,8	Economics
				0,8	Sociology, anthropology
4/9/87	IDB	LAC	Dominican Republic	0,8	Economics
4/16/87	FAO	ANE	Pakistan	1,0	Watershed management
4/17/87	USAID	AFR	Sudan	0,6	Anthropology, sociology

**Appendix C**  
**FSP Roster Use (continued)**

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties
4/22/87	Forest Service	LAC	Honduras	3,0	Project management
	USAID	AFR	Sudan	0,2	Soil science, agronomy
4/23/87	FAO	ANE	Pakistan	0,2	Watershed management
5/5/87	Forest Service	LAC	Honduras	3,0	FS, Spanish
				3,0	FS, senior
				2,0	Management, mesuration, silviculture
				2,0	FS, policy
				2,0	FS, sawmills
		Global	Washington, DC	0,8	Anthropology, sociology
	USAID	AFR	Senegal	0,3	Agroforestry
5/10/87	FAO	ANE	Pakistan	2,0	Watershed management
5/10/87	FAO	ANE	Nepal	2,0	Watershed management
5/18/87	IITA	AFR	Regional	2,0	Agriculture, agronomy, agroforestry
	Forest Service	LAC	Puerto Rico	0,2	Watershed management, soil science
	USAID (DASP)	ANE	China	0,3	FS, Chinese
5/26/87	USAID	AFR	Niger	0,16	Fire, aviation
			Cameroon	1,0	Agriculture, biometrics, remote sensing
5/28/87	USAID	AFR	Regional	2,0	Ecology, economics, environment
6/1/87	USAID	ANE	Pakistan	0,4	Pulp, paper
		AFR	Sudan	0,2	Economics
	Peace Corps	LAC	Paraguay	0,12	Agroforestry, nursery management
6/8/87	USAID	AFR	Madagascar	0,5	Agroforestry, French
6/12/87	USAID	LAC	Honduras	0,2	Land use assessment
6/16/87	PADF	LAC	Haiti	3,0	Nursery management
6/30/87	USAID	AFR	Sudan	0,24	Agroforestry
			Regional	2,0	Ecology, environment, natural resources
		LAC	Ecuador	2,0	Agroforestry
				2,0	Pathology
7/1/87	USAID	ANE	Morocco	0,4	Environment, French
7/6/87	USAID	LAC	Regional	2,0	Ecology, environment, natural resources
7/7/87	FAO	EUR	Italy	3,0	Writer, editor
7/10/87	WWF	Global	Washington, DC	3,0	Writer communications
7/20/87	Smithsonian	LAC	Panama	0,24	Wildlife management, zoology, ecology
	USAID	AFR	Niger	0,4	Biometrics, mensuration, remote sensing
7/21/87	USAID	AFR	Niger	0,4	Economics
				0,4	Policy, agroforestry
			Gambia	0,7	Harvesting, sawmill
7/23/87	USAID	ANE	Nepal	0,12	Economics, marketing
7/28/87	USAID	ANE	Indonesia	0,8	Indonesian
7/29/87	USAID	ANE	ASEAN	0,4	Watershed management

8/3/87	USAID	ANE	Pakistan	2,0	Agroforestry, training
8/6/87	USAID	AFR	Sudan	0,4	Roads, remote sensing, geology
8/25/87	USAID	LAC	Bolivia	2,0	Anthropology, sociology, communications
	USAID	AFR	Niger	0,4	Remote sensing
		LAC	Sahel	0,4	Biology, botany, ecology
		LAC	Haiti	2,0	Watershed, soil science, management
	OICD	ANE	Morocco	2,0	Economics, agriculture, agronomy
	ILCA	AFR	Regional	2,0	Agriculture, training, extension
	Peace Corps	LAC	Guatemala	0,4	Anthropology, sociology
8/27/87	Peace Corps	ANE	Tunisia	0,3	Range management
9/1/87	USAID	AFR	Somalia	0,12	Agroforestry
				0,12	Arid-zone forestry, administration
	Winrock	ANE	Regional	3,0	Agroforestry
9/3/87	USAID (DASP)	AFR	Niger	0,5	Communications, emergency coordination
9/10/87	USAID	AFR	Cape Verde	0,4	Arid-zone forestry, ecology
				0,4	Economics
				0,4	Arid-zone forestry, watershed management
		ANE	China	0,24	Harvesting
			Nepal	0,4	Project design
9/15/87	Chemonics	LAC	Bolivia	0,4	Ecology, natural resources
9/23/87	IIED	LAC	Regional	2,0	Extension
		AFR	Regional	2,0	Research design
	Winrock	ANE	Pakistan	2,0	Agroforestry, arid-zone, forestry
9/28/87	FAO	EUR	Italy	3,0	Economics, export-import trading
				3,0	Soil science land use assessment
9/29/87	FAO	LAC	Venezuela	0,10	Silviculture, plantation management

*Fiscal Year 1986 Roster Searches*

10/01/85	USAID	LAC	Ecuador	0,4	Silviculture
	Africare	AFR	Somalia	1,0	Arid Zone
	FAO	AFR	Ghana	3,0	Forestry
	Peace Corps	AFR	Niger	0,7	Forestry, Africa experience
	REDSO/WCA	AFR	West-Central Africa	2,0	Harvest
	Peace Corps	LAC	Honduras	2,0	Training
	WWF	LAC	Panama	2,0	Policy
10/7/85	PC/Washington	LAC	Honduras	2,0	Business
10/15/85	Forest Service	Global	Washington	3,0	Training
	PC/Washington	LAC	Honduras	2,0	Education
10/20/85	WWF	LAC	Panama	2,0	Policy
11/1/85	PVO	AFR	Rwanda	0,12	Sociology
	USAID	LAC	Dominican Republic	0,4	Forest management
	IIED	LAC	Dominican Republic	0,4	Economics
	USAID	ANE	Pakistan	0,13	Economics
	USAID	ANE	Pakistan	0,13	Agroforestry
	USAID	LAC	Ecuador	0,3	Harvesting

**Appendix C**  
**FSP Roster Use (continued)**

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties
11/5/85	CATIE	LAC	Costa Rica	2,0	Miscellaneous
	USAID	LAC	Caribbean Islands	0,3	Political science
11/8/85	IIED	Global	Washington	2,0	Agriculture
11/19/85	USAID/ROCAP	LAC	Costa Rica	2,0	Silviculture
11/30/85	Winrock	ANE	Pakistan	2,0	Agroforestry
	Winrock	ANE	Pakistan	2,0	Economics
12/1/85	Peace Corps	AFR	Benin	0,4	Forestry
	USAID	ANE	Philippines	0,2	Seed
	USAID	AFR	Sudan	0,3	Genetics
	USAID	AFR	Sudan	0,5	Policy
12/5/85	USAID	LAC	Dominican Republic	0,6	Sociology
	USAID	LAC	Dominican Republic	0,6	Communications
12/12/85	USAID	LAC	Haiti	0,3	Parks
12/20/85	IIED	ANE	Pakistan	0,8	Environment
1/1/86	USAID	LAC	Peru	2,0	Silviculture
	USAID	LAC	Mexico	0,4	Plantations
	USAID	AFR	Senegal	0,2	Wood products
	OICD	ANE	Yemen	2,0	Forestry, Italian
	USAID	AFR	Washington	0,8	Forestry, Africa experience
	USAID	ANE	Philippines	0,2	Entomology
	IIED	ANE	Pakistan	1,0	Environment
	USAID	ANE	Philippines	0,3	Biometrics
	USAID	ANE	Philippines	0,3	Entomology
	Africare	AFR	Somalia	0,12	Arid Zone
2/1/86	Smithsonian	ANE	Malaysia	0,1	Economics
	USAID	LAC	Haiti	0,6	Sociology
	USAID	LAC	Haiti	0,6	Agriculture
	USAID	LAC	Haiti	0,6	Extension
	Forest Service/IF	Global	Washington	2,0	Fire
	FSP	ANE	Washington	2,0	Forestry, Asia experience
	PVO	AFR	Somalia	2,0	Arid Zone
	PVO	AFR	Chad	2,0	Forestry, Africa experience
	CARE	Global	Global	2,0	Forestry
	FAO	LAC	Grenada	0,12	Roads
	FAO	LAC	Grenada	0,12	Harvesting
	USAID	ANE	Pakistan	0,6	Forestry
	USAID	LAC	Bolivia	0,7	Wood products
3/1/86	BOSTID	ANE	Philippines	0,2	Research
	USAID	AFR	Zaire	2,0	Engineering
	USAID	AFR	Sudan	2,0	Roads

	USAID	ANE	Philippines	0,2	Entomology
	USAID	ANE	S Pacific Islands	0,1	Entomology
	USAID	LAC	St Vincent	0,1	Watershed
	USAID	ANE	India	0,3	Traming
	Forest Service	LAC	Puerto Rico	2,0	Administration
	USAID/OPIC	AFR	Ghana	0,4	Sawmill
	USAID	LAC	Ecuador	0,2	Genetics
	USAID	AFR	Madagascar	0,4	Economics
	UNDP	AFR	Cameroon	1,0	Forestry, Africa experience
	USAID	LAC	Dominican Republic	0,4	Business
	USDA/BOSTID	ANE	Philippines	0,4	Silviculture
	USAID	LAC	Ecuador	0,4	Silviculture
4/1/86	FAO-USAID	AFR	Sahel	0,6	Economics
	PC/Washington	AFR	Washington, DC	2,0	Forestry, Africa experience
	Peace Corps	ANE	Philippines	0,12	Agroforestry
4/4/86	FAO	LAC	Chile	2,0	Parks
5/1/86	USAID	LAC	Panama	2,0	Forestry, Latin America experience
	USAID	LAC	Dominican Republic	0,4	Wood Products
5/8/86	DASP	LAC	Caribbean Islands	0,3	Fire
5/9/86	DASP	LAC	Caribbean Islands	0,3	Fire
6/1/86	USAID	AFR	Mali	4,0	Agroforestry
	WWF	AFR	Regional	2,0	WildlifePeace Corps
		AFR	Regional	0,4	Forestry
	USAID	LAC	Costa Rica	1,0	Economics
	USAID	LAC	Ecuador	1,0	Nurseries
	USAID	ANE	Nepal	0,9	Economics
6/30/86	FAO	ANE	Burma	2,0	Watershed
7/1/86	FAO	ANE	Burma	2,0	Watershed
	USAID	ANE	India	0,4	Training
	WRI	Global	Washington	0,8	Writer
	PADF	LAC	Haiti	2,0	Agroforestry
	PADF	LAC	Haiti	2,0	Genetics
	PADF	LAC	Haiti	2,0	Extension
	PADF	LAC	Haiti	2,0	Forestry, Creole
	USAID	ANE	ASEAN	0,3	Watershed
	Forest Service	World	World	2,0	Administration
	FSP	World	World	2,0	Forestry, Latin America experience
	FSP	World	World	2,0	Plantations
	FSP/USAID	World	World	2,0	Sociology
	USAID	LAC	Guatemala	0,4	Management
	ITF	LAC	Puerto Rico	2,0	Hydrology
7/8/86	CATIE	LAC	Costa Rica	2,0	Biometrics
7/31/86	ASEAN	ANE	Philippines	0,4	Watershed
	USAID	LAC	Guatemala	2,0	Management
	ITF	LAC	Puerto Rico	3,0	Research
	CATIE	LAC	Costa Rica	2,0	Extension

**Appendix C**  
**FSP Roster Use (continued)**

Date	Requester	Region	Location	Duration (yrs,wks)	Specialties	
8/1/86	CATIE	LAC	Costa Rica	2,0	Biometrics	
	CATIE	LAC	Costa Rica	2,0	Ecology	
	PVO	AFR	Rwanda	0,2	Agroforestry	
	PVO	AFR	Niger	0,12	Forestry, Africa experience	
	USAID	AFR	Somalia	3,0	Arid Zone	
	FAO	ANE	Bhutan	1,0	Wood products	
	FAO	ANE	Bhutan	0,4	Entomology	
	FAO	ANE	Bhutan	0,4	Harvesting	
	WWF	LAC	Costa Rica	2,0	Forestry, Latin America experience	
	CARE	AFR	Niger	2,0	Forestry, Africa experience	
	WWF	Global	Washington	2,0	Forestry	
	USAID	LAC	Ecuador	2,0	Nursery	
	8/8/86	USAID	AFR	Gambia	0,3	Sawmill
	9/1/86	USAID	AFR	Ivory Coast	0,4	Charcoal
	USAID	ANE	Indonesia	4,0	Watershed	
	USAID	ANE	Indonesia	2,0	Forestry, Asia experience	
	FAO	ANE	Bhutan	0,5	Economics	
	FAO	ANE	Bhutan	0,4	Harvesting	

## Appendix D

### FSP-Sponsored Brown-Bag Seminars

---

#### Fiscal Year 1989

- Juan Seve**, Senior Natural Resources Economist, "Niger's Forestry and Land Use Planning Project (FLUP)," October 5, 1988
- Donald H Marx**, Director, Institute for Mycorrhizal Research, "Improving Reforestation and Fuelwood Production in the Tropics Through Nursery Cultural Practices and Mycorrhizal Technology," November 7, 1988
- Lee Hannah**, USAID/Bureau for Africa, **Gary Wetterberg** and **LeRoy Duvall**, FSP, "Botswana Biological Diversity Assessment," November 8, 1988
- Michael Rechlin**, Forestry Division Head, Paul Smith's College, "Global Strategies for the Education of Forestry Technicians into the 21st Century," November 17, 1988
- Judith Gradwohl**, Tropical Rainforest Exhibition Curator, Smithsonian Institute, "Saving the Tropical Forests," November 30, 1988
- Greg Garbinsky**, USDA Office of International Cooperation and Development, "Emergency Locust Control Operations in Chad," December 8, 1988
- Nyle Brady**, Senior Assistant Administrator, USAID Bureau for Science and Technology, "Briefing on the Bellagio II Meeting," December 13, 1988
- Paul Cowles** and **Wendy Bromley**, "The Rumonge Agroforestry Project," January 3, 1989
- James Levy**, Advisor, Ploan Binacional Awa, "The Binational Awa Project of Ecuador and Colombia," January 13, 1989
- William R Burch, Jr**, Yale School of Forestry and Environmental Studies, and **J Kathy Parker**, The Oriskany Institute, "Lessons for Temperate Zone Forestry and Resource Conservation—From Forestry Education, Research and Practice in Asia," January 17, 1989
- Madhav Gadgil**, Indian Institute of Sciences, Bangalore, South India, "Common Property Resources, Human Ecology and the Rights of Indigenous Communities," February 6, 1989
- Don Studier**, USDA Forest Service, "Harvesting of Non-Wood Forest Products The FAO Program," February 14, 1989
- Cynthia Jensen**, AAAS Fellow, USAID Bureau for Science and Technology/Office of Forestry, Environment and Natural Resources, and **Hal Salwasser**, USDA Forest Service, "To Coexist Diversity and Development," February 15, 1989
- Frank Wadsworth**, Institute of Tropical Forestry, "Sustainable Management of Tropical Forest Ecosystems," February 27, 1989
- Scott Josiah**, PADF Agroforestry Outreach Project, "Biological Nitrogen Fixation Training Materials, Field Trials, Promotion With NGOs," March 24, 1989
- Alton C Byers, III**, RRAM Field Manager, "Agroforestry & Soil Conservation in the Highlands of Rwanda The Ruhengeri Resource Analysis & Management (RRAM) Project," April 7, 1989
- Richard Donovan**, Senior Fellow, The Conservation Foundation and World Wildlife Fund, "The BOS-COSA Project Promoting Conservation and Development in Costa Rica," April 27, 1989
- Random DuBois**, University of Chicago, "Soil Erosion in a Coastal Basin A Case Study From the Philippines," May 24, 1989
- Sandy Hale**, President, International Resources Group, "Potential for Expanded Use of Debt Conversion and Other Innovative Financing Techniques to Finance PVO and For-Profit Forestry and Agroforestry Activities," June 2, 1989
- Scott E Lampman**, North Carolina State University, "Ecuador's Plan Bosque Reforestation Incentives," June 8, 1989
- George F Taylor, II**, USAID/Nepal, "Discussion on Forests and Forestry in the Hindu-Kush Himalaya Reflections on the Nepal Experience," July 14, 1989
- Kenneth Andrasko**, U S Environmental Protection Agency, "Global Climate Change and Tropical Forestry Can We Slow Deforestation and Increase Reforestation?" September 18, 1989

**Federico Bascope**, twice head of the Bolivian Forest Service, "Bolivian Forestry," September 28, 1989

### **Fiscal Year 1988**

**Cheah Leong Chiew**, Director of Planning and Evaluation, Malaysian Forestry Research Institute, "Forestry in Malaysia," October 14, 1987

**Ronnie De Camino**, Center for Tropical Agricultural Research and Training, "Overview of Forestry in Latin America and the Caribbean," October 23, 1987

**Karl G Van Orsdol**, Environmental Strategies International, "Buffer Zone Agroforestry in Tropical Forest Regions," October 28, 1987

**Andrew Voros**, Consultant, "Overview of Forestry in Liberia," November 13, 1987

**Frank Zadroga**, USAID Regional Environmental Officer for Central America and Panama, "Overview of Central American Problems and Regional Environmental Profile," December 4, 1987

**Jeff Fox**, Project Fellow, East-West Center's Environment and Policy Institute, "Diagnostic Tools for Social Forestry," January 7, 1988

**Katy Moran**, Legislative Assistant to Congressman John E Porter, "The Politics of Tropical Forestry Conservation A View From the Hill," January 27, 1988

**Maria Teresa Ortiz**, Conservation International, "Conservation in the Context of Regional Development," January 28, 1988

**Shoaib Sultan Khan**, General Manager, Aga Khan Rural Support Program, "Successful Rural Development in the Mountains of Pakistan," February 2, 1988

**Elbert L Little**, Consultant to the Peace Corps, "Common Trees of Paraguay," February 24, 1988

**Timothy Resch**, FSP Program Coordinator for Food Aid and Voluntary Assistance, films "Firewood The Other Energy Crisis" and "Trees of Hope," March 3, 1988

**Robert Repetto**, Senior Economist, World Resources Institute, "Creating Economic Policy Incentives for Sustainable Forestry Development," March 9, 1988

**Denis Filer**, Computing and Data Management Specialist, Oxford Forestry Institute, "Computerization of the UK Overseas Development Administration's Forest Genetics Research Projects in Central America," March 23, 1988

**Daniel Janzen**, University of Pennsylvania and Advisor to Fundacion Neotropico in Costa Rica, "Ecological and Biocultural Restoration of Tropical Habitats A Dry Forest Example," March 28, 1988

**Anis A Dani**, Social Scientist, International Centre for Integrated Mountain Development, "Mediating Structures in Incorporation and Development," April 7, 1988

**James L Chamberlain**, Development Associate, Nitrogen Fixing Tree Association, "The Role of Nitrogen Fixing Trees on Small Farms," April 15, 1988

**Patrick B Durst**, FSP Special Projects Coordinator, and **George R Armstrong**, Senior Forester, USAID Bureau for Asia and the Near East, "Observations on Forestry in Thailand," April 25, 1988

**Ralph F Field**, Consultant, "PVO Affections and Agroforestry," April 27, 1988

**Terry W Gossard**, Chief Geometrics Engineer, USDA Forest Service, and **Ray Allison**, Remote Sensing Coordinator, USDA Forest Service, "Economic Analysis of Transportation Systems in Sudan," May 11, 1988

**Jim Smyle**, University of Georgia, "Run-off Generation and Sediment Production From Reforested Watersheds in a Monsoonal Climate," May 19, 1988

**Jim Corven**, Belize Cocoa Project, "Small Scale Cocoa Farming in Belize," May 23, 1988

**Dennis Johnson**, FSP Agroforestry Coordinator, "Agroforestry Developments and Prospects for a Developing World," May 26, 1988

**Eldon Ross**, Associate Deputy Chief for Research, USDA Forest Service, and **James M Sweeney**, In-

ternational Forestry Bilateral Coordinator, USDA Forest Service, "Forestry Research in India," June 23, 1988

**J Kathy Parker**, Consultant and Team Leader, **Richard J Calnan**, FSP Coordinator for Asia and the Near East, and **William Fleming**, Hydrologist with the State of New Mexico, "Nepal Resource Conservation and Utilization Project Final Evaluation Summary," July 13, 1988

**Don Zeaser**, Consultant, "A Demonstration of a Computer Model for Determining Optimal Species for Regeneration Focus on Adverse Conditions in the Andean Highlands," July 20, 1988

**Shanta Pandey**, Case Western Reserve University, School of Applied Social Science, "Women's Involvement in Locally Managed Forests A Case Study From Nepal," July 27, 1988

**Chandni Joshi**, Chief of Women Development Section, Nepal Ministry of Panchayat and Local Development, "Women in Development in Nepal, With Special Reference to Credit and Women in Natural Resources," August 17, 1988

**Niwat Ruangpanit**, Associate Dean, Faculty of Forestry, Kasetsart University (Thailand), "Community Forestry Development in Thailand," August 24, 1988

## **Fiscal Year 1987**

**Chuck Schnell**, Resident Director, Organization for Tropical Studies in Costa Rica, "The Role of an Ecological Field Station in Management of Fragile Lands," October 1, 1986

**Vicente Molinos**, Market Development Specialist, Forestry Private Enterprise Initiative in Quito, Ecuador, "Current Activities in Ecuador," October 15, 1986

**Clive Malcolm**, Principal Research Officer, Western Australia Department of Agriculture, "Productive Use of Salt-Tolerant Plants in Developing Countries," October 20, 1986

**Julian Evans**, Forestry Program Director, International Institute for Environment and Development,

"Productivity of Tropical Plantations Is It Sustainable? (A Report on Third Rotation Yields in Swaziland)," October 24, 1986

**Mark Plotkin**, Plan Conservation Program Director, World Wildlife Fund—U S , "The Outlook for New Agricultural, Industrial and Medicinal Products From the Tropics," November 12, 1986

**Loren Ford**, Caribbean Forestry Advisor, "Forestry Sector Activities in the Caribbean Basin," December 15, 1986

**Peter Felker**, Caesar Kleberg Wildlife Research Institute, "*Prosopis*, *Leucaena*, and *Opuntia* Species for Dryland Forestry," March 16, 1987

**Michael Sweatman**, Chairman, Board of Advisors, Fourth World Wilderness Congress, and Director, International Wilderness Leadership Foundation, "A Strategy to Increase the Resources Available for Natural Resources and Environmental Projects in Developing Countries," April 8, 1987

**Alan Grainger**, Gilbert F White Visiting Fellow, Resources for the Future, "Projected Deforestation Rates and Tropical Hardwood Supplies," April 16, 1987

**James Burchfield**, International Forestry Seminar Director, and **Paul Nowak**, University of Michigan, "International Forestry Seminar Prospects for the Future," May 6, 1987

**Florencia Montagnini**, Organization of Tropical Studies, "S&T/FENR Sponsored Agroforestry Manual (*Sistemas Agroforestales*)," August 13, 1987

**Douglas MacKinnon**, Administrator, Forestry Private Enterprise Initiative, "AID Approaches to Forestry Through the Private Sector The FPEI/INFORDE Experience in Ecuador," August 17, 1987

**Dagmar Werner**, Smithsonian Tropical Research Institute, "Combining Wildlife Management (Iguanas) With Agroforestry in Panama," September 28, 1987

**Audace Kabayanda**, Director General, Burundian National Institute for the Conservation of Nature, "National Parks, Reserves, and Natural Monuments of Burundi," September 30, 1987

## **Fiscal Year 1986**

**Mike McGahuey**, Chemonics, "Agroforestry in Africa—With Emphasis on Chad and *Acacia albida*," January 30, 1986

**Steve Berwick**, International Institute for Environment and Development, and **Joe Berry**, Yale School of Forestry, "Integrated Systems Analysis of River Basin Projects," February 7, 1986

**Chuck Hodges** and **Thomas Geary**, "FSP Supported Technical Assistance Visit to Senegal to Diagnose the Cause of Mortality of Casuarina Trees," February 27, 1986

**CARE Staff**, including the **Regional Technical Advisory Team**, "CARE Forestry Program Worldwide and the Conclusions of Its Research in the Majja Valley in Niger," March 6, 1986

**Paul Dulin**, Chief of party of Chemonics' contract, "USAID's Natural Resource Management Project and Agroforestry Systems in Honduras," March 7, 1986

**P K Nair**, International Council for Research in Agroforestry, "Inventory and Classification of Agroforestry Systems," March 25, 1986

**Hal Salwasser**, Deputy Director of Wildlife and Fisheries, USDA Forest Service, "Wildlife Management and Forestry in India," April 23, 1986

**Jack Ranney**, Oak Ridge National Laboratory, "The Relevancy to AID's Forestry Projects of the Oak Ridge National Laboratory Program on Short-Rotation Woody Crops," April 29, 1986

**Max McFadden**, Senior Staff Entomologist, USDA Forest Service, "Evaluation of the *Leucaena/Heteropsylla* Problem in Hawaii, the Philippines, and New Caledonia," June 2, 1986

**Cynthia Mackie**, USAID Bureau for Asia and the Near East, Office of Technical Resources, "Applied Ecological Research in Upland Tropical Rainforests of Borneo," June 17, 1986

**Henry Tschunkel**, Regional Office for Central America Programs (ROCAP) Regional Forestry Advisor in Costa Rica, "Tree Crop Production in Central America," August 7, 1986

**Asif Sheik**, Energy Development International, "Forestry Resources Analysis and Planning Model (FRAP)," August 20, 1986

**Len Newell**, Pacific Islands Forester, USDA Forest Service, "Forestry in the Pacific," September 17, 1986

**Chuck Schnell**, Organization for Tropical Studies (OTS) in Costa Rica, "OTS's Role in Fragile Land Management," October 1, 1986

## Appendix E

### Reports Produced or Directly Influenced by FSP, Fiscal Years 1986–1989

---

#### Fiscal Year 1989

- Armstrong, George R, Patrick B Durst, and Carl Gallegos 1989 *Deforestation and Its Implications for the Asia/Near East Region* Prepared in support of USAID's Environment and Natural Resources Strategy for Asia and the Near East 60 pp
- Buck, Louise E 1989 *Agroforestry Extension Training Sourcebook* Volumes I and II CARE—International, New York, NY
- CARE 1989 *Agroforestry Extension Training Sourcebook* CARE, New York, NY
- Durst, Patrick B 1989 *Eucalyptus robusta* Sm Species monograph In Russell M Burns and Menandra Mosquera (comp), *Useful Trees of Tropical North America* North America Forestry Commission Silvicultural Study Group, Washington, DC 15 pp
- Durst, Patrick B 1989 *Indonesian forestry Issues and opportunities* Prepared for USAID/Jakarta 10 pp, plus tables
- Geary, Thomas F 1989 "Internships in Natural Resource and Environmental Management in the USA of Foreign Students" International Science and Education Council, National Training Conference, Arlington, VA March 2-19, 1989
- Geary, Thomas F 1989 *Melaleuca quinquenervia* (Cav) ST Blake Species monograph in preparation for publication by the FAO North American Forestry Commission
- Guerron, Fernando 1989 *Ventajas Comparativas del Sector Forestal y Maderero* FPEI Working Paper No 43 Southeastern Center for Forest Economics Research, Research Triangle Park NC
- Jickling, John. 1989 *Short-Term Economic Benefits of Agroforestry A Survey* Commissioned by the Forestry Support Program 36 pp
- O'Rourke, Therese M 1989 "A Municipal View of Utility Arboriculture, 1989" Prepared for the International Society of Arboriculture Conference and the *Journal of Arboriculture*
- O'Rourke, Therese M 1989 "International urban forestry in developing countries" Prepared for the 4th Urban Forestry Conference and Proceedings
- Resch, Timothy M 1989 *Grevillea robusta* A Cunn Species monograph in preparation for publication by the FAO North American Forestry Commission
- Vinopul, David (ed) 1989 "Educating Forest Technicians in the 21st Century" Proceedings of an International Conference, Paul Smith's College, New York, August 15–21, 1988 93 pp

#### Reports in Progress

- Durst, Patrick B, and Marcie J Norris "The USA's Tropical Foresters" Submitted to the *Journal of Forestry*
- Guerron, Jorge Fernando, and Jeffrey P Prestemon "Analysis of the Economic Efficiency and the Comparative Advantages of the Forest and Timber Sectors in Ecuador"
- Laarman, Jan G, and Manuel Baldares "Demand for an Annual Pass to Costa Rica's National Parks"
- Laarman, Jan G, and Manuel Baldares "User Fees at Protected Areas in Costa Rica"
- Laarman, Jan G, and Jeffrey P Prestemon "The Use and Efficiency of Resources in the Industries of Forest Products of Ecuador"
- MacKinnon, Douglas A "Ecuador Years"
- O'Rourke, Therese M "Natural Resources Assessment of a Charcoal Production Project in Veracruz, Mexico" World Bank
- O'Rourke, Therese M *Calopyllum brasiliense* Species monograph in preparation for publication by the FAO North American Forestry Commission
- Pazmino Lemos, Javier, Consuelo Carranza Ganadora, and Jeffrey P Prestemon "Planning of Communication Support and Projects of Development in the Area of Forest Timber"
- Prestemon, Jeffrey P "Efficiency of the Timber Industry of Ecuador"

**Prestemon, Jeffrey P , and Jorge Fernando Guerron** "Needs of Technical Assistance in the Forest Industry in Ecuador "

**Prestemon, Jeffrey P , and Scott E Lampman** "The Thrd World Debt Crisis Are There Opportunities for Forestry?"

**Prestemon, Jeffrey P , et al** "A Policy Analysis for Selected Forest Products in the U S , Ecuador, and Chile "

**Prestemon, Jeffrey P , et al** "A Tri-Country Comparison of the Cost of Production for Selected Wood Products "

### **Fiscal Year 1988**

**Alig, Ralph J , and C Denise Ingram** 1988 *Ecuador's Competitiveness in Forest Products Some Multi-Country Comparisons* Forestry Private Enterprise Initiative (FPEI) Working Paper No 38 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 44 pp

**Davis, Robert R** 1987 *The effect of changing land use on erosion in the Mazar watershed* University of Tennessee, Knoxville, TN 18 pp , plus appendixes

**Devoe, Nora N** 1987 *The Effect of Light Exposure Level on the Recruitment and Growth of Five Tropical Tree Species* Final Report Yale University, New Haven, CT 6 pp

**Durst, Patrick B** 1988 "Supporting Tropical Forests " *Journal of Forestry* 86(2) inside back cover

**Durst, Patrick B** 1987 *Roster File Search and Maintenance Manual* Forestry Support Program, Washington, DC 19 pp , plus appendixes

**Durst, Patrick B , and C Denise Ingram** 1988 "Nature-Oriented Tourism Promotion by Developing Countries " *Tourism Management* 9(1) 39-43

**Durst, Patrick B** 1988 *Potential Forestry Activities for the Thailand Management of Natural Resources and Environment for Sustainable Development (ManRes) Project* Report prepared for USAID/Thailand Forestry Support Program, Washington, DC 65 pp

**Durst, Patrick B** 1988 "Nature Tourism Opportunities for Promoting Conservation and Economic Development " Presented at the International Symposium on Nature Conservation and Tourism Development, August 2-26, 1988, Surat Thani, Thailand 14 pp

**Durst, Patrick B** 1988 "Wood-Fired Power Plants in the Philippines Where Will the Wood Come From?" In David C Lothner et al (eds ), *Economic evaluations of short-rotation biomass energy systems* IEA Information Report 88 2 International Energy Agency, Duluth, MN pp 322-341

**Duvall, LeRoy** 1988 *The Status of Biological Resources in Morocco Constraints and Options for Conserving Biological Diversity* Consultant report for USAID/Morocco, Rabat 58 pp , plus appendixes

**Forestry Support Program** 1988 *Natural Resources and Disaster Management Roster Managers' Workshop Summary Report* Forestry Support Program, Washington, DC 64 pp

**Forestry Support Program** 1988 "Making a Difference in International Forestry Development " USDA Forest Service, Washington, DC 10 pp (brochure)

**Forestry Support Program** 1988 *Progress Report of the Forestry Support Program (FSP) 1987* USDA Forest Service and Office of International Cooperation and Development, Washington, DC 54 pp

**Geary, Thomas F , and David Lowe** 1987 *Training of Developing Country Nationals in the U S by USAID and FAO of the UN* Forestry Support Program, Washington, DC 5 pp

**Gonzales, Carlos E** 1987 "A model for analyzing wood energy plantations in the Dominican Republic " Master of science thesis University of New Hampshire, Durham 137 pp

**Gow, David, LeRoy Duvall, and Herbert Stoevener** 1988 *Haiti Agroforestry Program (521-0217) Draft Project Identification Document (PID)* Consultant report for USAID/Haiti, Port-au-Prince 35 pp

**Guerron, Fernando** 1988 "Ventajas Comparativas del Sector Forestal y Maderero "

- Hannah, Lee, Gary Wetterberg, and LeRoy Duvall 1988 *Botswana Biological Diversity Assessment* USAID Bureau for Africa/TR, Washington, DC 72 pp , plus appendixes
- Healy, Robert G 1988 *Economic Considerations in Nature-Oriented Tourism The Case of Tropical Forest Tourism* FPEI Working Paper No 39 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 57 pp
- Huke, Susan, and June Plecan 1988 *Planning for Agroforestry Save the Children Federation, Westport, CT* 68 pp
- International Development and Energy Associates, Inc 1988 *Forestry Activities Supported by the U S Agency for International Development* USDA Forest Service, Washington, DC 52 pp
- Johnson, Dennis V 1988 "The Potential Contribution of Agroforestry Species to Small Farmer Cocoa Growing" In *Proceedings of the First Inter-American Cocoa Forum*, San Jose, Costa Rica, January 27-30, 1987 Pan American Development Foundation Washington, DC 6 pp
- Johnson, Dennis V 1988 Book reviews "Agroforestry A Decade of Development" and "Agroforestry Realities, Possibilities, and Potentials" *Farm Forestry News* 2(3) 8
- Johnson, Dennis V 1988 "Palms as Multipurpose Cash and Subsistence Tree Crops" In D Withington et al (eds ), *Multipurpose Tree Species for Small-Farm Use* Winrock International Institute for Agricultural Development, Washington, DC pp 222-236
- Krutilla, Kerry 1987 *A Businessman's Guide to Investment and Trade in the Forest Products Sector of Southeast Asia Indonesia, Malaysia, and the Philippines* FPEI Working Paper No 32 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 58 pp
- Laarman, Jan, and Jeffrey Prestemon 1988 *Employment and Resource Efficiency in Ecuador's Small Scale Forest Enterprises* FPEI Working Paper No 40 Southeastern Center for Forest Economics Research, Research Triangle Park, NC
- Laarman, Jan G , and Richard R Perdue 1987 *Tropical Science as Economic Activity OTS in Costa Rica* FPEI Working Paper No 33 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 25 pp
- Laarman, Jan G , Timothy P Stewart, and Jeffrey P Prestemon 1988 *International Travel by U S Conservation Groups and Professional Societies* FPEI Working Paper No 37 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 18 pp
- Lampman, Scott 1988 *Analysis of a Forestation Incentive Program in Ecuador A Rationale for Modification and Agroforestry Application* FPEI Working Paper No 42 Southeastern Center for Forest Economics Research, Research Triangle Park, NC
- Leahy, Lawrence, Betty Lussier, Myrna Norris, Scott Posner, and Tim Resch 1987 *Design for Multidisciplinary Rural Development Project Peace Corps/Tunisia-ODESPANO* Report prepared for Peace Corps/Tunisia, Tunis 49 pp
- McCormick, Charles J 1987 *Financial Sensitivity of Alternative Forestation Incentives in Ecuador* FPEI Working Paper No 30 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 18 pp
- Messerschmidt, Donald A 1988 "Notes for the Social Science of Forestry Some Approaches to Interactive Research Linkage for Development Forestry" Presented at a meeting of national, donor agency, and nongovernmental organization foresters, Khartoum, Sudan Forestry Support Program, Washington, DC 19 pp
- Messerschmidt, Donald A 1988 *Social Science Activities in the Forestry/Fuelwood Research and Development (F/FRED) Project Background and Discussion* Forestry Support Program, Washington, DC 22 pp
- Messerschmidt, Donald A 1988 "Success in Small Farmer Development Paper Making at Pand and Nanghbang, Nepal" *World Development* 16(6) 733-751
- Mussack, Michael 1988 *Diagnostico Socioeconomico de los Sistemas Agroforestales de Cacao, Cafe y Arboles de Sombra Utilizados en la Produccion de Madera en la*

- Costa de Ecuador* FPEI Working Paper No 35 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 99 pp
- Mussack, Michael F, and Jan G Laarman** 1988 *Farmer's Production of Timber Trees in the Cacao-Coffee Region of Coastal Ecuador* FPEI Working Paper No 36 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 28 pp
- Prestemon, Jeffrey** 1988 *Efficiency and Employment in Ecuador's Sawwood Industry* FPEI Working Paper No 41 Southeastern Center for Forest Economics Research, Research Triangle Park, NC
- Resch, Timothy M** 1988 "The Forestry Support Program Bridge to USAID for the University and PVO Communities " Presented at the International Science and Education Council (ISEC) General Session, October 5, 1988 Washington, DC
- Resch, Tim, Neils L Roy Martin, and Jonathon Lachit.** 1988 "Draft PID Components Natural Resources Management " Chemonics International Consulting Division, Washington, DC 105 pp
- Smyle, James W** 1987 "Production of Suspended Sediment From Small Catchments in the Mid-Elevation Wet Zone of Sri Lanka " Master of science thesis University of Georgia, Athens 31 pp
- U S Agency for International Development** 1988 *Progress in Conserving Tropical Forests and Biological Diversity in Developing Countries* USAID, Washington, DC 140 pp
- Welker, John C** 1988 *Application of a Dynamic Investment Scheduling Model to Import Substitution of Softwood Lumber in Jamaica* FPEI Working Paper No 34 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 12 pp
- Wetterberg, Gary B** 1987 "Concepts of Natural Resources Conservation An Integral Part of National Development " Presented at the National Conference on Natural Resources, November 9-14, 1987, Guatemala City, Guatemala 5 pp
- Fiscal Year 1987**
- Bremer-Fox, Jennifer, and W L Bender** 1987 *The Forestry Private Enterprise Initiative in Ecuador An Assessment of INFORDE's First Eighteen Months* Robert R Nathan Associates, Inc , Washington, DC 112 pp , plus appendixes
- Burchfield, Shirley S** 1987 *Food Aid and Forestry An Inventory of Current and Proposed Food Aid-Supported Forestry Projects* Forestry Support Program, Washington, DC 49 pp
- Durst, Patrick B** 1986 *Financial Aspects of Contract Reforestation in the Philippines* Forestry Support Program, Washington, DC 92 pp
- Durst, Patrick B** 1986 *Natural History and Nature-Oriented Adventure Travel for Rural Development and Wildlands Management Diagnosis of Research Needs and Project Opportunities for Thailand* Forestry Support Program, Washington, DC 21 pp
- Durst, Patrick B , and C Denise Ingram** 1987 *How Well Do Developing Countries Promote Nature-Oriented Tourism by Mail?* FPEI Working Paper No 25 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 18 pp (Also forthcoming *Tourism Management* )
- Durst, Patrick B , C Denise Ingram, and Jan G Laarman** 1986 "Inaccuracies in Forest Products Trade Statistics " *Forest Products Journal* 36(9) 55-59
- Figueroa Colon, Julio C , Frank H Wadsworth, and Susan Branham** (eds ) 1987 *Management of the Forests of Tropical America Prospects and Technologies* Proceedings of a conference held September 22-27, 1986 USDA Forest Service, Institute of Tropical Forestry, San Juan, PR 469 pp
- Ford, Loren B** 1986 "Biological and Genetic Control of the *Leucaena Psyllid* Caribbean Regional Report " Presented at the Workshop on Biological and Genetic Control of the *Leucaena Psyllid* in Asia and the Pacific, November 4-6, 1986, Honolulu, HI 1 p
- Ford, Loren B** 1986 "Exploration of Natural Enemies of *Heteropsylla Cubana* in Latin America and the Caribbean " Presented at the Workshop on Biological and Genetic Control of the *Leucaena Psyllid* in

- Asia and the Pacific, November 4-6, 1986, Honolulu, HI 2 pp
- Ford, Loren B** 1986 "Hillside Agriculture Project Draft Technical Analysis" Prepared for USAID/Jamaica 17 pp
- Ford, Loren B** 1987 "Draft Forestry Project Concept Paper" Prepared for USAID/Belize 4 pp
- Ford, Loren B** 1987 "Draft Proposal Agroforestry Promotion, Research and Development" Prepared for USAID/Jamaica 18 pp
- Ford, Loren B** 1987 "Draft Tropical Forests and Biological Diversity Analysis" Prepared for USAID/Jamaica 12 pp
- Ford, Loren B** 1987 "Experiences with *Gliricidia sepium* (Jacq) Steud in the Caribbean" Presented at the Workshop on Management and Improvement of *Gliricidia sepium* and Other Nitrogen Fixing Trees, June 21-27, 1987, Turrialba, Costa Rica 6 pp
- Ford, Loren B** 1987 "Forest Insect and Disease Strategy for the Tree Crop Production Project, CATIE, Turrialba, Costa Rica" Presented at the Center for Tropical Agricultural Research and Training, Costa Rica (CATIE) 12 pp, plus appendix
- Ford, Loren B, Kathryn Hunter, and Wilson Eedy** 1987 *Cumberland Assessment Team Report* Prepared for USAID/Barbados 29 pp
- Ford, Loren B, and Mark Shaffer** 1987 "Draft Tropical Forests and Biological Diversity Analysis" Prepared for USAID/Belize 24 pp
- Forestry Support Program** 1987 *Progress Report of the Forestry Support Program (FSP) 1986* USDA Forest Service, Washington, DC 60 pp
- Forestry Support Program** 1987 *Profiles of U S A Forestry Schools* USDA Forest Service, Washington, DC 235 pp
- FSP Forestry Private Enterprise Initiative Private Forestry Initiative for Development (INFORDE)** 1987 *Boletín Informativo de Precios de Productores Madereros* No 2 INFORDE, Quito, Ecuador 6 pp
- Ingram, C Denise, and Patrick B Durst** 1987 *Marketing Nature-Oriented Tourism for Rural Development and Wildlands Management in Developing Countries A Bibliography* General Technical Report SE-44 USDA Forest Service, Asheville, NC 54 pp
- Ingram, C Denise, and Patrick B Durst** 1987 *Nature-Oriented Travel to Developing Countries by U S - Based Tour Operators* FPEI Working Paper No 28 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 17 pp
- Ingram, C Denise, and Patrick B Durst** 1987 "Nature Tourism as an Alternative Economic Opportunity for Wildlands Management and Rural development Marketing, Promotion, and Enterprise Development" Presented at the Fourth World Wilderness Congress, September 11-18, 1987, Colorado 9 pp
- Ingram, C Denise, Jan G Laarman, and Michel C Contezac** 1987 "International Technology Transfer The Forest Products Laboratory" *Forest Products Journal* 37(7/8) 15-16
- Janick, Jules, Dennis V Johnson, and William B Kurtz** 1987 "Enhancement of productivity of Portugal's dryland agroforestry regions" Prepared for Portugal's Instituto Nacional de Investigacao Agraria 49 pp
- Johnson, Dennis V** 1986 *An Abstract Bibliography of Agroforestry Articles from Agroforestry Systems and The International Tree Crops Journal, 1980-1986* Forestry Support Program, Washington, DC 69 pp
- Johnson, Dennis V** 1987 "The Potential Contribution of Agroforestry Species to Small Farmer Cocoa Growing" Paper presented at the Inter-American Cocoa Forum, January 27-30, 1987, San Jose, Costa Rica 10 pp
- Johnson, Dennis V** 1987 "Systematic Problems Relative to Palm Conservation and Utilization" Paper presented at a conference entitled "Systematic Botany A Key Science for Tropical Research and Documentation," September 14-17, 1987, Stockholm, Sweden
- Laarman, Jan G** 1986 "Forestry and Foreign Policy The Politics of Trade and Aid in a Sensitive World"

- In *Proceedings of 1986 SAF National Convention Society of American Foresters*, Birmingham, AL pp 51-55
- Laarman, Jan G 1987 "The Economic Outlook for Forestry in Tropical America A Hazardous Period for Projections" In Figueroa Colon et al (eds), *Management of the Forests of Tropical America Prospects and Technologies* USDA Forest Service Institute of Tropical Forestry, San Juan, PR pp 31-48
- Laarman, Jan G 1987 "Investing in Timber and Timberland in Latin America" Presented at the Forest Products Research Society Meeting, April 28, 1987, Milwaukee, WI (proceedings forthcoming from the Forest Products Research Society) 14 pp
- Laarman, Jan G, and Patrick B Durst 1987 "Nature Travel in the Tropics" *Journal of Forestry* 85(5) 43-46
- Laarman, Jan G, and Richard R Perdue 1987 *A Survey of Return Visits to Costa Rica by OTS Participants and Associates* FPEI Working Paper No 29 Southeastern Center for Economics Research, Research Triangle Park, NC 31 pp
- Laarman, Jan G, Gerard F Schreuder, and Erik T Anderson 1987 "An Overview of Forest Products Trade in Latin America and the Caribbean Basin" Presented at the Third International Symposium on World trade in Forest Products, University of Washington, Seattle, WA, March 18-20, 1987 (proceedings forthcoming from the University of Washington)
- Livingston, Geoffrey, and Timothy M Resch 1987 *Senegal PL 480 Title III Food for Development USAID/Senegal Final Evaluation* USAID/Senegal 63 pp
- Lugo, Ariel E, and Loren B Ford (eds) 1987 *Forest Recreation in the Caribbean Islands Proceedings of the Third Meeting of Caribbean Foresters, May 19-23, 1986, Guadeloupe* USDA Forest Service Institute of Tropical Forestry and the Caribbean National Forest, Rio Piedras, PR 95 pp
- McColough, Robert, and Dennis V Johnson 1987 "End of Project Review Burundi Forestry Project (No 695-0105)" Prepared for AID/Burundi 12 pp, plus appendixes
- McCormick, Ian (ed) 1987 *Analisis Economico de Inversiones en Plantaciones Forestales en Ecuador* FSP Forestry Private Enterprise Initiative Private Forestry Initiative for Development (INFORDE), Quito, Ecuador 106 pp
- McKean, Cressida Sargent 1987 "Small-Scale Manufacturing The Potential and Limitations for Growth—The Case of Wood Products in Ecuador" Master of philosophy in development studies thesis University of Sussex, Sussex, England 210 pp
- Mussack, Michael F 1987 *Suggestions on improving log supply to Artepractico's Sawmill in Cuenca, Ecuador* FPEI Working Paper No 24 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 45 pp
- Organizacion para Estudios Tropicales (OTS) and Centro Agronomico Tropical de Investigacion y Ensenanza (CATIE) 1986 *Sistemas Agroforestales Principios y Aplicaciones en los Tropicos* OTS, San Jose, Costa Rica 818 pp
- Rathin, Basu, and Thomas G Johnson 1987 *The Contribution of Forestry to Economic Development, with Special Reference to Employment and Income in Developing Countries An Annotated Bibliography* Department of Agriculture Economics, Virginia Polytechnic Institute and State University, Blacksburg, VA 104 pp
- Tapp, Charles, Tim Resch, Louise Buck, and Leo Nturu 1986 "Uganda Village Forestry Project Evaluation" Prepared for CARE, the Government of Uganda, and AID/Uganda 39 pp
- Wetterberg, Gary B 1987 "Parks, Forests and Foresters in South America" *Journal of Forestry* 85(5) 37-40
- Wilson, Mystie A 1987 *Nature-Oriented Tourism in Ecuador Assessment of Industry Structure and Development Needs* FPEI Working Paper No 20 Southeastern Center for Forest Economics Research, Research Triangle Park, NC 37 pp
- Wilson, Mystie A, and Jan G Laarman 1987 *Nature Tourism and Enterprise Development in Ecuador* FPEI Working Paper No 27 Southeastern Center for Forest Economics Research, Research Triangle

Park, NC 22 pp (Also submitted to *World Leisure and Recreation* )

## Fiscal Year 1986

AID/Dakar 1986 *Senegal Reforestation Project Paper* (685-0283) 52 pp , plus annexes

Alexander, Earl B 1986 *Soil Conservation Practices to Reduce Soil Loss and Sedimentation in Ecuadorean Watersheds* AID/Quito 35 pp

Allen, James Andrew 1986 "Fuelwood Policies for Swazi Nation Land Farm and Community Approaches for Fuelwood Production " Master's thesis, Cornell University 155 pp

Armstrong, George R 1985 *A Guide to Washington Area Library Collections Addressing International Development, With Special Reference to Forests and Related Natural Resources of the Tropics* Society of American Foresters 61 pp

Burchfield, James 1986 *Report on the 1985 International Seminar on Forest Resource Administration and Management* 20 pp

Catterson, T M , F A Gulick, and T Resch 1985 "Desertification—Rethinking Forestry Strategy in Africa Experience Drawn From USAID Activities " Paper presented at the FAO expert consultation on the role of forestry on combating

desertification 15 pp

Catterson, Thomas M , and Timothy M Resch 1985 Comment on "The Role of Forestry in Dry Africa " *Journal of Forestry* 83(4) 207–209

Cintron, Gilberto 1985 *Mangrove Area Management in Panama* Forestry Support Program, Washington, DC 44 pp

Dennison, Steve 1986 "The Maja Valley Windbreak Evaluation Study " CARE 37 pp

Durst, Patrick B 1986 *Energy Plantations in the Republic of the Philippines* SCFER Working Paper No 24 SCFER, Research Triangle Park, NC 34 pp

Ford, L 1986 "St Vincent Forestry Assessment " Prepared for the Forestry Department, St Vincent

and the Grenadines, and AID Regional Development Office/Caribbean, Georgetown, Barbados Technical assistance to Cumberland Watershed Management Project 7 pp

Ford, L 1986 "Forest Protection in Guatemala " Prepared for AID/Guatemala for preparing Pine Forest Management Amendment to Highlands Agriculture Project 8 pp

Ford, L 1986 "Multi-Purpose Tree Seed Sources " Prepared for AID/Haiti for Agroforestry Outreach Project 44 pp

Ford, L 1986 *Recommendations for Seed, Nurseries, Outplanting, Tree Management, Research and Project Coordination for Agroforestry Outreach Project* AID/Haiti 10 pp

Ford, L 1986 Scopes of Work of Requests for Proposals for (1) Research and (2) Tree Improvement Components of Agroforestry Outreach Project Extension AID/Haiti 8 pp

Ford, L 1986 "Honduras Forestry Field Training Course—Course Evaluation " Evaluation of University of Idaho short course for AID/Honduras-sponsored foresters 4 pp

Forestry Support Program 1986 *Progress Report of the Forestry Support Program (FSP) 1981–1985* Forestry Support Program, Washington, DC 71 pp

Geary, T F 1986 *Planning International Training for USAID-Assisted Social Forestry Projects in India* Forestry Support Program 30 pp , plus appendix

Harcharik, D A , and T F Geary 1985 P L 480 *Forestry Research in Pakistan Overview of Current Program and Future Research Priorities* USDA Forest Service, Washington, DC 25 pp

Hodges, Charles S , Jr , and Thomas F Geary 1985 *Technical Assistance on Mortality of Casuarina equisetifolia Planted on Coastal Sand Dunes in Senegal* Forestry Support Program, Washington, DC 10 pp

INFORDE 1986 *From the Forest of Ecuador Today, Tomorrow* 17 pp

INFORDE 1986 *Domestic Price Bulletin*

- Ingram, C Denise, Jan G Laarman, and Michel C Contezac 1986 *The International Clientele Served by the Forest Products Laboratory* SCFER Working Paper No 18 SCFER, Research Triangle Park, NC 18 pp
- Laarman, Jan G 1986 *A Perspective on Private Enterprise and Development Aid for Forestry* SCFER Working Paper No 16 SCFER, Research Triangle Park, NC 13 pp
- Laarman, Jan G 1986 *Nature-Oriented Tourism in Costa Rica and Ecuador Diagnosis of Research Needs and Project Opportunities* SCFER 18 pp
- Laarman, Jan G, and George F Dutrow 1986 *A Private Enterprise Strategy for Forestry Development Principles, Mechanism, and Challenges* SCFER Working Paper No 19 SCFER, Research Triangle Park, NC 8 pp
- Laarman, Jan G, and John Muench, Jr 1985 "The Caribbean Basin Initiative What Does It Mean for Forestry?" In *Symposium on Sustainable Development of Natural Resources in the Third World* Ohio State University pp 21-22
- Laarman, Jan G, J Michael Vasievich, and Patrick B Durst 1986 *Technologies to Harvest Fast-Growing Energy Plantations in Hawaii and the Philippines* SCFER Working Paper No 17 SCFER, Research Triangle Park, NC 12 pp
- Laarman, Jan G 1986 *The Economic Outlook for Forestry in Tropical America A Hazardous Period for Crystal Balls* SCFER Working Paper No 21 SCFER, Research Triangle Park, NC 23 pp
- McDill, Marc 1986 "Reforestation Incentives and the Economic Structure of the Charcoal Market in Minas Gerais, Brazil" M S thesis, North Carolina State University 57 pp
- McFadden, Max W 1986 *Evaluation of the Leucaena/Heteropsylla Problem in Hawaii, the Philippines, and New Caledonia* Forestry Support Program, Washington, DC 100 pp, plus appendices
- McGahuey, Michael 1985 *Assessment of the Acacia Albida Extension Projects in Chad* Chemonucs 21 pp
- McKean, Cressida 1986 *The Context and Strategy for Growth of Small Furniture Enterprises The Province of Guayas* SCFER
- McKean, Cressida 1986 *Sawmills in Ecuador A Study of Small Sawmilling Enterprises in the Province of Pichincha* SCFER 94 pp
- Miranda, Marie Lynn 1985 *Forest Management in the Third World* SCFER Working Paper No 27 SCFER, Research Triangle Park, NC 50 pp
- Palmer, John E 1986 *Evaluation of Technical Performance Agroforestry Outreach Project (521-0122) AID/Haiti* 21 pp, plus annexes
- Petriceks, Janis 1986 *Bolivian Forest Resource and Forest Industry Profile* SCFER 49 pp
- Pfeiffer, Earnest 1986 *Private Sector Economic Potential Senegal Reforestation Project* SCFER 35 pp
- Resch, T M 1985 *Mid-Term Evaluation of Eastern Refugee Reforestation Project CARE and Government of Sudan Central Forest Administration With Financial Support From United States Agency for International Development Forestry Support Program*, Washington, DC 40 pp
- Resch, T 1986 *Final Evaluation of Gambia Forestry Project (635-0205)* USAID/Banjul Unpaginated
- Resch, T, F A Gulick, and T Catterson 1986 *Analysis of PVO Activities in Africa in the Area of Natural Resources/Environment/Argiculture A Review of the Current Situation* Congressional Research Service 5 pp
- Schweithelm, James 1986 *A Method of Land Evaluation for Watershed Land Use Planning in the Tropics A Case Study of Riam, Kanan, Indonesia* Report to FSP by the East-West Environment and Policy Institute, Honolulu 37 pp
- Tangendjaja, B, J B Lowry, E Basuno, and M Boer 1986 *Potential for Leaf Meal Production from Tree Legumes in Southeast Asia* Forestry Support Program, Washington, DC 68 pp
- Van der Slooten, Harry J 1986 *Research and Technical Assistance Needs of the Woodworking Industry in Ecuador* INFORDE 19 pp

**Wetterberg, Gary B 1986 "The Forestry Support Program, Peace Corps, and Changing Development Needs " Paper presented at the National Conference on Future Directions of the Peace Corps, Fort Collins, CO 6 pp**

## Appendix F Timeline

---

The Forestry Support Program has produced or contributed to many efforts during 1986–1989. Included in this appendix are FSP's activity milestones from 1986 to 1989 and a timeline of FSP staff (Figure F-1)

### Forestry Support Program's Activity Milestones\*

---

#### 1989

Progress Report of FSP 1988	Completed CARE contract for <i>Agroforestry Extension Training Sourcebook</i>
FPEI/INFORDE transfer from Ecuador to Guatemala	Contract with NAPFSC and University of Idaho to update forestry school profiles
Comprehensive roster update	Cooperative agreement FSP/OICD/WRI for TFAP NGO Workshop in Dominican Republic
ICT contract to update FSP data bases on USAID forestry and natural resources portfolio	Internships in natural resource and environmental management in the U S for foreign students (Geary)
Annual Training and Education Strategy	160 roster searches
Background studies completed for USAID on biodiversity, biotechnology, agroforestry, underutilized species, and tree seeds	23 FSP brown-bag seminars
Post-training evaluation of African Regional Tree Seed Technology Course	
Initiated network information service with USAID and FAO-sponsored foreign students in the United States	

---

#### 1988

Progress Report of FSP 1987	Pacific/Caribbean Islanders Agroforestry Workshop in Costa Rica
IDEA Contract to update data bases on AID forestry portfolio—Forestry Activities Supported by USAID	Agroforestry Training Workshop in St Vincent
Food Aid Programming Workshop for LAC in Guatemala (FSP/Peace Corps—Proceedings)	International tree seed training course—Nairobi (REDSO/FSP)
Caribbean forestry advisor became financially independent of FSP	Thailand Social Forestry Curriculum Workshop in Bangkok
Significant diversification of FSP funding sources (FENR, PPC, AFR, S&T/RD, USDA/FS) became fully operational	FPEI Working Paper Series brochure
FSP/DASP/OICD Roster Manager's Workshop	FPEI studies on agroforestry, employment, and so forth
International Conference on Educating Forest Technicians into the 21st Century	INFORDE Jornadas Forestales in Quito, Ecuador
Agroforestry study plots for cocoa established in Grenada	Cooperative agreement with Michigan State University for Spanish Quicksilver software
FSP brochure and portable display created	Annual Training and Education Strategy
	147 roster searches
	28 FSP brown-bag seminars

---

\*Information compiled August 1989

---

1987

- |  |   |
|--|---|
| Progress Report of FSP 1986  | Agroforestry training course in Bolivia   |
| Caribbean forestry advisor position established in Puerto Rico with FSP/FENR and LAC funds                         | Update on U S forestry school profiles  |
| Sistemas Agroforestales published by FSP/OTS/CATIE   | Food Aid and Forestry Inventory of Current and Proposed Food Aid-Supported Forestry Projects (Burchfield) |
| Buffer zone agroforestry in tropical forest regions (Van Orsdol)   | Report on Developing Country Nationals Training (in Forestry) in the U S (Geary/Lowe)                     |
| Food Aid and Natural Resources Programming Workshop for AFR in Kenya (FSP/Peace Corps—Proceedings)                 | INFORDE work on privatization of CORMADERA Federal Register and CBD Roster announcements                  |
| Roster transferred from word processor to PC dBASE III, comprehensive roster update                                | IUFRO Forestry Research Workshop for LAC (Peru)   |
| Senegal PL480 Title III Food for Development USAID/Senegal Final Evaluation lessons learned (Livingston and Resch) | FPEI studies on tax incentives and nature tourism   |
| Update of Job Seekers Guide to Opportunities in Natural Resource Management for the Developing World (Foer)        | University of Michigan International Forestry Seminar became financially independent of FSP               |
|  | Annual Training and Education Strategy  |
|  | FPEI Monthly Reports and Budget Summary initiated   |
|  | 137 roster searches   |
|  | 14 FSP brown-bag seminars   |

---

1986

- |   |  |
|---|--|
| Progress Report of FSP, 1981–1985   | India State Agricultural University Forestry Faculty Program—Initiated implementation of USAID/India |
| Conceptualized and oversaw establishment of Disaster Assistance Support Program (DASP)                      | Final Evaluation of Gambia Forestry Project (Resch)  |
| Completed Arawak Consulting Corporation/OICD/FSP contract for data base on USAID projects/personnel         | First INFORDE Wood Product Price Bulletin  |
| Majia Valley Windbreak Evaluation Study (Dennison)  | IUFRO Forestry Research Workshop for Africa (Kenya)  |
| Energy plantations in the Republic of the Philippines (Durst)   | Puerto Rico Conference on Management of Forests of Tropical America                                  |
| Planning international training for USAID-assisted Social Forestry Projects in India (Geary)                | FSP/OICD training course for Honduran foresters  |
| International clientele served by the Forest Products Laboratory (Ingram et al )                            | First FSP Training and Education Strategy  |
| Evaluation of <i>Leucaena/Heteropsylla</i> problem in Hawaii, the Philippines, and New Caledonia (McFadden) | 133 roster searches  |
|   | 14 FSP brown-bag seminars held in Washington, D C  |

1989	1988	1987	1986
		Wetterberg (2/85)	Program Manager
	Hunter (3/87)		LAC Coordinator
	Duvall (5/87)	Resch (Acting)	AFR Coordinator
Durst (9/88)		Calnan (5/86)	ANE Coordinator
O'Rourke (6/89)   Norris/Durst (Acting)		Durst (9/86)	Special Projects Coordinator
			Muench (11/84)
			FPEI Forest Enterprise Coordinator
			Molinos (11/84)
			FPEI Market Development Specialist
		Laarman (7/83)	FPEI Principal Investigator
	Bricio (1/85)		FPEI Administrative Assistant
		MacKinnon (2/87)	FPEI Administrator
	Geary (1/86)		Training and Education Coordinator
Huke (7/89)		Johnson (4/86)	Forestry/Agriculture Coordinator
Parker (Interim)	Messerschmidt (9/87)		Social Forestry Coordinator
Norris (4/89)			Management Assistant
		Resch (10/86)	FVA Coordinator
	Gallegos/Deely (10/87)		Deely
			USAID FRM Project Officer
Crossan	Garbinsky	O'Malley	Garbinsky
			USDA/OICD Technical Assistance Specialist