



# **INTERNATIONAL TROPICAL TIMBER COUNCIL**

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## **DRAFT ANNUAL REPORT FOR 1991**

(Item 18 of the Provisional Agenda)

### **NOTE BY THE EXECUTIVE DIRECTOR**

This draft Annual Report has been prepared pursuant to Article 28(i) of the International Tropical Timber Agreement, 1983, which requested the Council to publish an Annual Report on its activities and other appropriate information within six months after the close of each calendar year. In preparing this Report comments made by Members on previous Reports have been taken into account.

The draft Report gives an account of the activities of the Council and the three Permanent Committees together with other information of relevance to the ITTO. The Report is divided into four parts. The first part deals with institutional, organizational and administrative matters, sessions of the Council and its Permanent Committees and general developments in the Organization and the Secretariat. Parts two, three and four of the Report give detailed information about the operational activities of the Organization in the fields of Economic Information and Market Intelligence, Reforestation and Forest Management and Forest Industry. Annexes of the Report give other useful information.

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## 1. ORGANIZATION, ADMINISTRATION AND SUMMARY OF ACTIVITIES

### 1.1 Membership

There was no change in the membership of the Organization during the year under review. Thus, as of 31 December 1991, ITTO had a membership of 22 producing countries and 26 consuming member countries including the EEC.

The 48 Members of ITTO at the end of 1991 are as follows:

#### Members

##### Producers

Bolivia  
Brazil  
Cameroon  
Colombia  
Congo  
Côte d'Ivoire  
Ecuador  
Gabon  
Ghana  
Honduras  
India  
Indonesia  
Liberia  
Malaysia  
Panama  
Papua New Guinea  
Peru  
Philippines  
Thailand  
Togo  
Trinidad and Tobago  
Zaire

##### Consumers

Australia  
Austria  
Canada  
China  
Egypt  
European Community  
Belgium/Luxembourg  
Denmark  
France  
Germany  
Greece  
Ireland  
Italy  
Netherlands  
Portugal  
Spain  
United Kingdom of Great Britain  
and Northern Ireland  
Finland  
Japan  
Nepal  
Norway  
Republic of Korea  
Sweden  
Switzerland  
Union of Soviet Socialist Republics/C.I.S  
United States of America

Details of ratification, acceptance, approval and accession are as contained in Annex 1.

### 1.2 International Tropical Timber Council

#### 1.2.1 *Officers of the Council*

At its Ninth Session, the Council elected Mr. Ernesto Sanvictores (Philippines) as Chairman and Mr. David W.K. Boulter (Canada) as Vice-Chairman for 1991. At its Eleventh Session, Mr. David W.K. Boulter (Canada) was elected as Chairman of the Council for 1992 whilst Mr. S.K. Appiah (Ghana) was elected Vice-Chairman. All these elections were unanimous and made after normal informal consultations among Members.

### 1.2.2 Tenth Session of the Council

The Tenth Session of the Council was held in Quito, Ecuador, from 29 May to 6 June 1991. The Opening Session of the Council was preceded by a Ceremony in which Members were honoured by the presence of the Constitutional President of Ecuador, His Excellency Dr. Rodrigo Borja de Cevallos, who addressed the Council. The entire Council Session was chaired by Mr. Ernesto Sanvictores.

The Chairman of the Expert Panel on Technical Appraisal of Project Proposals, Mr. Ron Kemp, described the work of the Panel to Council and since this was the first time the Panel met he gave details of its terms of reference and criteria used in conducting this appraisal. The Chairman of the Panel described the work of the Panel as a service firstly, to the submitting country, to strengthen project proposals, to improve the chances that the proposal would be approved and funded and secondly, to the Permanent Committee, to ensure the completeness of relevant information and adherence to ITTO's objectives to facilitate consideration by the Permanent Committee. The Council decided to continue the Expert Panel for Technical Appraisal of Project Proposals.

The two consultants, Dr. Amaru Maximiano and Mr. Ian Buist, presented their report on the project cycle review. This matter generated a great deal of interest and discussion, particularly on harmonisation with formats used in other organizations, resources of the Secretariat, the need for a project preparation manual, difficulties in implementation, monitoring and evaluation and the need to strengthen project formulation capacity in producing Member Countries. After due consultations the Council decided to appoint two consultants to prepare a detailed project preparation manual. In addition, certain adjustments to the existing ITTO Project Cycle were also made.

In conjunction with this Session, a Round Table on "The Agenda for Trade in Tropical Timber from Sustainably Managed Forests by the Year 2000" was convened from 31 May to 1 June 1991. The Round Table was chaired by Prof. Dr. Herman Haeruman of Indonesia. Various proposals emerged from this Round Table in full recognition that incentives are a legitimate method of increasing sustainable management and that sustainable management of tropical forests and international trade are inter-linked. Within the context of discussions of the Round Table, Council decided:

- (a) To confer annually based on reports submitted by Members on their proposed progress towards the Year 2000 Target;
- (b) To identify possible methods of defining general criteria for and measurement of sustainable tropical forest management;
- (c) To undertake studies to estimate the resources needed by producer countries to attain sustainability by the year 2000.

At this Session also, Council took the decision to extend the ITTA, 1983 for a further period of two years with effect from 1 April 1992 until 31 March 1994. As provided for in the Agreement, this will be the final extension of the ITTA, 1983. Council therefore decided to hold meetings immediately after its Eleventh Session, on 5-6 December 1991 for exchanging views on issues relating to the ITTA, 1983.

The Council noted the recommendations of its three Permanent Committees as contained in their reports for the Eighth Sessions and approved 32 projects and 8 pre-projects and activities. Twenty-eight projects, including 3 approved at earlier sessions, were authorised financing for immediate implementation. In addition, 5 pre-projects and activities were also authorised for immediate implementation.



The following pledges of contributions were made:

|             |   |
|-------------|---|
| Japan       | ¥ 1,241,917,000 (approximately \$9.6 million) |
| Netherlands | \$ 170,000                                    |
| Norway      | \$ 24,000                                     |
| Sweden      | SK 4 million                                  |
| Switzerland | \$ 1 million                                  |

The Council took note of the Auditor's Report for the Administrative and Special Accounts for 1991.

### 1.2.3 *Eleventh Session of the Council*

The Eleventh Session of the Council was held in Yokohama, Japan, from 28 November to 4 December 1991. The Session was held in the newly built Pacifico-Yokohama Conference Centre, the building complex which also houses the ITTO Secretariat Headquarters.

The Council decided on arrangements for renegotiation of ITTA, 1983, including two preparatory committee meetings to conduct consultations with a view to eventual negotiation of a successor Agreement followed by two U.N. negotiating conferences to establish the text of the proposed Agreement. The negotiating conferences are scheduled from 13 to 17 April 1993 and from 22 to 26 June 1993.

At this Session, a great deal of attention was devoted to issues related to sustainable management:

- (a) The Expert Panel to Define General Criteria for and Measurement of Sustainable Tropical Forest Management met at The Hague from 27 to 29 September 1991 under the chairmanship of Mr. David W.K. Boulter. To facilitate the work of the Panel a background document was prepared by two consultants, Mr. S.T. Mok and Prof. Duncan Poore. Based on the recommendations of the Panel, Council adopted a definition for sustainable management of tropical forests and adopted criteria for sustainability which would be refined by a Consultative Panel that will meet in conjunction with the Twelfth Session of the ITTC;
- (b) Council decided to convene an Expert panel to estimate the resources needed by producer countries to attain sustainable management of tropical forests by the year 2000;
- (c) Council initiated discussions on progress towards Target 2000 based on reports presented by some members on their proposed progress towards the Year 2000 Target.

A statement was made by the representative of the State Government of Sarawak, Malaysia, on measures to achieve sustainable forest management based on recommendations of the ITTO Mission to Sarawak. It was explained that legally there are three categories of forest lands in Sarawak:

- (a) Firstly, Totally Protected Areas (TPA) for biodiversity conservation, now totalling 290,000 ha. Legal steps were underway to increase the TPA to 1.0 million ha. in accordance with the ITTO Mission recommendation;
- (b) Secondly, the Permanent Forest Estate (PFE) now totalling 4.5 million ha. Another 1.5 million ha. were under process of gazettment to be constituted as additional PFE, and was also accorded the same management status as the PFE. Thus to all intents and purposes the total PFE in Sarawak totalled 6.0 million ha. as recommended by the ITTO Mission;

- (c) Thirdly, the remaining 1.7 million ha. of forests are State Land Forests (SLF), parts of which were being converted for agriculture and land settlements.

It was further explained that total timber production in Sarawak in 1990 amounted to 18.8 million m<sup>3</sup> out of which 12.5 million m<sup>3</sup> were produced from the PFE and the balance, 6.3 million m<sup>3</sup> were produced from the SLF. The Council was informed that Sarawak had finalized operational plans to reduce timber production from the PFE by 3 million m<sup>3</sup> i.e. 1.5 million m<sup>3</sup> in 1992 and another 1.5 million m<sup>3</sup> in 1993 thus bringing annual production of timber from the PFE to a sustainable level as was recommended by the ITTO Mission. In view of difficulties that will be faced to achieve sustainability, Sarawak appealed for greater international co-operation and assistance, including better trade arrangements.

The Council also decided during this Session that ITTO Secretariat costs related to projects to cover monitoring, evaluation and administration, should be included in all project budgets. Such costs should comprise five per cent of total project budget but in cases where ITTO is the executing agency, the costs should not exceed ten per cent.

The Council decided to extend the appointment of Dato' Dr. Freezailah bin Che Yeom as Executive Director for another term of two years from 1 April 1992 to 31 March 1994.

Nineteen projects were approved out of which Council authorised financing for immediate implementation 10 of them. In addition, another project approved earlier was also authorised for immediate implementation. Six pre-projects and one activity were also approved. Four pre-projects were authorised financing for immediate implementation.

New contributions to ITTO's Special Account were pledged as follows:

|   |              |
|---|--------------|
| Australia   | A\$ 150,000  |
| Ito Yokado  | ¥ 50,000,000 |
| Japan   | \$ 4,933,832 |
| Netherlands   | \$ 65,000    |
| Norway  | \$ 150,000   |
| Sweden  | \$ 220,000   |
| Switzerland   | \$ 290,000   |
| Union pour le Commerce des Bois Tropicaux<br>dans la Communauté Européenne (U.C.B.T.) | \$ 30,000    |
| U.S.A.  | \$ 1,000,000 |

The Council approved the Administrative Budget for the year 1992 totalling \$ 3,523,672.

### 1.3 The Permanent Committees

#### 1.3.1 *Officers of the Permanent Committees*

During the year, Dr. Gary Lindell (U.S.A.) and Mr. S.K. Appiah (Ghana) served as Chairman and Vice-Chairman of the Permanent Committee on Economic Information and Market Intelligence. At its Ninth Session, the Committee elected Dr. Toga Silitonga (Indonesia) as its Chairman and Mr. Arthur V. Morrell (U.K.) as Vice-Chairman for 1992.

Mr. Erik Lammerts van Bueren (Netherlands) and Dr. Amantino Ramos de Freitas (Brazil) headed the Permanent Committee on Reforestation and Forest Management as Chairman and Vice-Chairman during the year. At its Ninth Session, the Committee elected Dr. Amantino Ramos de Freitas (Brazil) and Dr. David A. Harcharik (U.S.A.) as Chairman and Vice-Chairman.

During the year, Dato' Baharuddin Haji Ghazali (Malaysia) and Prof. Nils-Erik Nilsson (Sweden) led the Permanent Committee on Forest Industry as its Chairman and Vice-Chairman. For 1992, the Committee elected Prof. Nils-Erik Nilsson (Sweden) and Dr. Rubén Guevara Moncada (Honduras) as Chairman and Vice-Chairman.

### **1.3.2 *Eighth Sessions of the Permanent Committees***

The Eighth Sessions of the three Permanent Committees were held in Quito, Ecuador, from 29 May to 6 June 1991.

ITTO's Market Discussion was held on 30 May 1991 for one day only because of Council's decision to hold a two-day Round Table on "The Agenda for Trade in Tropical Timber from Sustainably Managed Forests by the Year 2000". The main theme of the 1991 Market Discussion was "Trends in the Trade and Tropical Timber Products in the Latin American/Caribbean Region". A keynote speaker gave an over-view presentation on this topic. The Market Discussion also benefitted from a host country presentation on the resources situation and developments in timber trade and industry in Ecuador. The synthesis of the Market Discussion was reflected in the General Tropical Timber Market Statement for 1991 which was released to the Press.

As part of the Joint Session of the Permanent Committees for the Market Discussion, the Annual Review and Assessment of the World Tropical Timber Situation was undertaken based on a Secretariat document.

The Committees technically appraised a total of 42 project proposals and recommended to Council 22 be approved. The Committees also reviewed progress of projects and pre-projects under implementation.

The Permanent Committee on Forest Industry authorised the establishment of a Selection Panel to evaluate fellowship applications under Project PD 60/89 (M,F,I). The Selection Panel approved a total of 12 applications.

### **1.3.3 *Ninth Sessions of the Permanent Committees***

The Ninth Sessions of the Permanent Committees were held in Yokohama from 28 November to 4 December 1991. The Committees reviewed progress of projects and pre-projects under implementation and technically appraised a total of 41 project proposals submitted by Members. This technical appraisal was made based on the work of the Expert Panel on Project Appraisal and amendments submitted by Members. In addition, the Committees decided to implement 5 pre-projects.

A Joint Committee session under the chairmanship of Mr. Erik Lammerts van Bueren was convened to review ITTO's work on Lesser Known Species (LKS). Although many people expected benefits from LKS, opinions were also being expressed to the contrary and hence the need to clarify impacts of LKS utilization. The discussions centered on three interrelated aspects including market information and acceptance of LKS, their timber characteristics and processing and effects on resources and sustainability. The session stressed lack of information, the need for a flexible approach and that improvement of harvesting which could increase wood supply and reduce damage to residual stands.

The Permanent Committee on Forest Industry established a Selection Panel to consider fellowship applications. The Panel approved eight of them.

The Committee on Reforestation and Forest Management discussed guidelines proposals for the Conservation of Biological Diversity in Production Tropical Forests to complement Guidelines on Natural Forests and Planted Forests. A revision of this draft would be circulated to all Members for further comments before finalisation.

The Committee on Reforestation and Forest Management recommended to the Council to develop proposals in relation to protection of tropical forests against fire, based on activities suggested by the Government of Japan, Indonesia and the U.S.A. through a visit by a project formulation team to Indonesia. This may lead to formulation of ITTO Guidelines on the prevention and suppression of fire in tropical forests.

#### 1.4 Summary of Project and Pre-Project Activities

In 1991, a total of 38 projects and 11 pre-projects and activities were approved and funded by ITTO at a cost of \$ 16,239,999 and \$ 833,588 respectively including 4 projects approved earlier costing \$ 1,344,550.

**Table 1. Summary of Projects, Pre-Projects and Activities  
Approved and Funded in 1991**

|  | PROJECTS  |                   | PRE-PROJECTS AND ACTIVITIES |                |
|--|-----------|-------------------|-----------------------------|----------------|
|  | No.       | Cost              | No.                         | Cost           |
| Economic Information and Market Intelligence | 4         | 1,446,500         | 2                           | 335,000        |
| Reforestation and Forest Management          | 21 *      | 8,977,646         | 3                           | 199,000        |
| Forest Industry                              | 13 **     | 5,815,853         | 6                           | 299,588        |
| <b>TOTAL</b>                                 | <b>38</b> | <b>16,239,999</b> | <b>11</b>                   | <b>833,588</b> |

\* including 3 projects approved earlier

\*\* including 1 project approved earlier

Table 2 summarises ITTO's projects, pre-projects and other activities since commencement of operational activities.

**Table 2. ITTO Project, Pre-Project and Activity Summary  
to 31 December 1991 in all Divisions**

|           | PROJECTS |            | PRE-PROJECTS & ACTIVITIES |           | TOTAL |            |
|-----------|----------|------------|---------------------------|-----------|-------|------------|
|           | No.      | Cost       | No.                       | Cost      | No.   | Cost       |
| Approved  | 130      | 77,231,600 | 66                        | 6,792,200 | 196   | 84,023,600 |
| Funded    | 100      | 46,627,000 | 61                        | 5,853,200 | 161   | 52,480,000 |
| "Sunset"  | 9        | 5,750,100  | 1                         | 50,000    | 10    | 5,800,100  |
| Completed | 21       | 2,990,900  | 36                        | 2,917,400 | 57    | 5,908,300  |

To date, ITTO has financed projects, pre-projects and activities amounting to \$52.48 million.

## 1.5 Other Activities

As requested by Council, the Secretariat followed the UNCED process closely and participated in all the three Preparatory Committee Meetings held so far leading to the United Nations Conference on Environment and Development or Earth Summit, to be held in Rio de Janeiro from 1 to 12 June 1992. ITTO was granted full observer status at these meetings and contributed papers on ITTO's role to combat deforestation, climate change, desertification and soil loss and biodiversity loss of tropical forests. Opportunity was taken at all these meetings to distribute information on ITTO's role and activities and progress in promoting the conservation and wise utilization of tropical forest resources through sustainable management.

During the year under review, the Expert Panel for Technical Appraisal of Project Proposals met twice under the chairmanship of Mr. Ronald H. Kemp. The first Panel met in Kuala Lumpur at the conference room of the Malaysian Timber Industry Board, from 18 to 22 February 1991, and the second Panel was held in Yokohama, from 14 to 19 October 1991. The work of this Panel greatly facilitated examination of project proposals by the Permanent Committees and Council decided on its continuation.

In conjunction with the Tenth World Forestry Congress held in Paris, a Satellite Session was held on 25 September 1991 on "ITTO -- The Organization and its Activities to Promote Conservation and Sustainable Development of Tropical Forests". Four presentations were made: "Four Years of ITTO's Activities" (Dr. B.C.Y. Freezailah); "ITTO's Role in the Sustainable Development of Tropical Forests" (Dr. Duncan Poore); "The Acre Project: ITTO Action to Promote Sustainable Management and Development of the Amazon Forest" (Dr. Judson Ferreira Valentim); and "ITTO and the Tropical Timber Trade and Industry" (Mr. Frank Sheridan). The Session was well attended and resulted in a lively and interesting discussion on ITTO's activities and other developments.

At the invitation of the Government of The Netherlands, the Expert Panel to Define General Criteria for and Measurement of Sustainable Tropical Forest Management was convened at The Hague from 27 to 29 September 1991. The operational criteria and indicators for sustainable management of tropical forests were formulated within the context of ITTO's Year 2000 Target. The definition of sustainable management of tropical forests and criteria for sustainability tentatively adopted are annexed to this Report.

As the ITTA, 1983 will expire on 31 March 1994 after being extended for the second and final term of two years, informal consultations were held on 5 and 6 December 1991 for exchanging views on issues relating to the ITTA, 1983.

## 1.6 The Secretariat

Mr. Lachlan A.J. Hunter joined the ITTO Secretariat to head the Division of Management Services on 7 January 1991. Dr. Nils Svanqvist, Assistant Director of Reforestation and Forest Management since 2 July 1987, left the Secretariat on 10 March 1991. His position was taken by Mr. David S. Cassells on 8 January 1991. Dr. Per Wegge, Forestry Ecologist, who was funded by NORAD, left on 8 March 1991 when his term expired. Ms. Ji-Young Chang, Research Assistant in the Division of Reforestation and Forest Management, resigned on 20 October 1991 after working in the Secretariat for about five months.

In August, the Secretariat moved to its new office accommodation on the fifth floor of the newly completed Pacifico-Yokohama building complex. With about 50 per cent more floor space, the ITTO Headquarters office comfortably accommodates all members of the Secretariat staff, room for visiting consultants, a meeting room, adequate space for library and other facilities. With office expansion, the City of Yokohama provided additional equipment and furniture. Throughout the year, the Secretariat continued to enjoy the hospitality and support from the Government of Japan and the City of Yokohama.

## 2. ECONOMIC INFORMATION AND MARKET INTELLIGENCE

### 2.1 Pre-Projects

#### 2.1.1 Completed Pre-Projects

Two Pre-Project studies were completed in time for submission to the Eighth Session of the Permanent Committee.

- (1) The Pre-Project "Study on Incentives in Producer and Consumer Countries to Promote Sustainable Development of Tropical Forests" (\$141,670) was completed in February 1991. It was conducted for the ITTO by the Oxford Forestry Institute in cooperation with the Timber Research and Development Association (TRADA) in the U.K. The Study was the main working document for a Round Table organized at the request of the Council on "The Agenda for Trade in Tropical Timber from Sustainably Managed Forests by the Year 2000" during the Eighth Sessions of the Permanent Committee.

The Round Table, held in Quito from 31 May to 1 June 1991, brought together some twenty experts from twelve Producer and Consumer countries, (six each) and eight others representing FAO, ATO, WWF, WRI, IIED, UCBT, JLIA and IHPA. The Chairman/Moderator was Prof. Dr. Herman Haeruman (Indonesia) and the Rapporteur, Dr. Geoffrey K. Elliott, a private British Consultant. The Coordinator of the Pre-Project Study commissioned from the Oxford Forestry Institute presented the Study and took part in the discussions.

The Report of the Round Table was circulated during the deliberations of the Preparatory Committee for the U.N. Conference on Environment and Development.

- (2) The second completed Pre-Project "The Conservation Status of Tropical Timber in Trade" (\$129,200) commissioned from the World Conservation Monitoring Centre, Cambridge, U.K. was completed in time for submission to the Eighth Session of the Permanent Committee. Due to lack of time the Permanent Committee deferred its consideration and requested wide circulation of the Study to enable comprehensive debate on it. The debate took place on the Study during the Ninth Session of the Committee. A project proposal to carry forward the Study into a second phase was also discussed. It was felt that the views and concerns expressed over the new draft proposal were to be taken into account in any possible revision and resubmission of the Project document.

#### 2.1.2. ITTO Activities in Progress

At its Eighth Session the Permanent Committee considered three Project Ideas. These were presented by the U.K. By decision of the Council these Ideas were transformed into ITTO Activities for immediate implementation.

- (1) **The Economic Linkages Between the International Trade in Tropical Timber and the Sustainable Management of Tropical Forests**

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total budget         | \$ 235,000 |
| Govt. of Japan       | \$ 70,000  |
| Govt. of Netherlands | \$ 65,000  |
| Govt. of Switzerland | \$ 70,000  |
| UCBT                 | \$ 30,000  |

**Implementing Agencies:**

London Environmental Economics Centre (LEEC) and International Institute for Environment and Development (IIED)

**Starting Date and Duration:**

December 1991  
1 year

**The aim of the proposed study is:**

- (i) to identify the international trade flows in tropical timber through a synthesis of existing trade data and studies on volume, values and trends for tropical timber products;
- (ii) based on this review, to assess future trends in the tropical timber trade that are relevant to the formulation of policies in line with stated sustainable management objectives, in particular the objectives of the Year 2000 Strategy as outlined in Council Decision 3(X);
- (iii) to discern the underlying policies and market conditions that determine timber trade flows, in particular the ability to attain Year 2000 Target by investigating liberalized trade in tropical timber within the framework of the multilateral trading system;
- (iv) to evaluate whether trade policy interventions in consuming and/or producing countries are effective instruments for directly altering the incentives and disincentives for sustainable management of tropical forests, and in particular to encourage trade in timber from sustainably managed sources;
- (v) to evaluate alternative trade policy options available to ITTO and its member countries as outlined in the Year 2000 Strategy; and
- (vi) to examine the consistency and feasibility of the alternative policy options in light of established international trade regimes and cooperation.

The study aims to achieve these objectives by evaluating the results of studies, including those of ITTO project and pre-project studies, academic literature and 'grey' literature pertinent to an economic analysis of the timber trade and its impact on sustainability in the tropical forest sector. The study also seeks to survey and evaluate the appropriateness and effectiveness of trade policy, including both economic and regulatory instruments, in analyzing in particular the policy options available to ITTO in achieving its Year 2000 Target for trade in 'sustainably managed' timber.

As a matter of practicality, the study will concentrate its efforts primarily on the analysis of current trade conditions and policies rather than on forest management practices and the conditions to achieve sustainable management within the timber production sector. This study will take the broad objectives of the Year 2000 Strategy as the overall goal, and focus on trade flows and policies that are relevant to this Strategy. However, where possible, the causes of existing market or policy failures in trade relationships that affect management of tropical timber will be examined. This Study is being undertaken for the ITTO by the London Environmental Economics Centre of the IIED, London.

**(2) Study of the Feasibility of Strengthening Incentives for the Management of Tropical Moist Forest for Sustained Production in a Producer Country**

**Budget and Funding Sources:**

To be determined

**Implementing Agency:**

International Institute for Environment and Development (IIED)

**Starting Date and Duration:**

To be determined

**The aim of proposed study is:**

- (i) to design a complete and coherent system of possible incentives for:

- government and other institutions
- commercial organizations and industries including the timber trade
- local communities

to promote the sustainable management of the country's forest for the production of the whole range of goods and services needed from them.

- (ii) to propose appropriate methods of resource transfer required to provide these incentives.

**The following activities will be necessary:**

- (i) survey of current forest management practice including the constraints affecting the operation of management on the ground in both reserved and unreserved forest;
- (ii) survey of laws and regulations relating to forestry and to its interaction with agriculture and with land and tree ownership;
- (iii) survey of subsidies, taxes and traditional rights relating to forestry and agriculture;
- (iv) survey of agricultural practice in relation to tree growing and the production of forest products on agricultural land including agroforestry and tree plantations;
- (v) survey of harvesting Licenses and Logging practices in both reserved and non-reserved forests;
- (vi) evaluation of costs, prices and benefits in the wood chain from forest to consumer;
- (vii) evaluation of the role of other forest products and their benefits;
- (viii) survey of forest industries, the range of products made and the quality and value of products;
- (ix) survey of the local and export timber trade;
- (x) survey of the tree species currently used and not used and evaluation of the latter's potential for use.

/...



From these activities the project will analyze the information obtained in order to determine the benefits obtained by institutions, commercial organizations and local communities from forests and forest products and what, if any, incentives and transfer of resources may be necessary to achieve sustainable management. The Study is being undertaken by the IIED with the cooperation of Ghana which has volunteered to serve as a the target country for the study.

### (3) Forest Accounting: Monitoring Forest Condition and Management

#### Budget and Funding Sources:

|                           |                      |
|---------------------------|----------------------|
| Total budget              | \$ 390,000           |
| Donor(s) to be determined | \$ 240,000           |
| Two selected countries    | \$ 150,000 (in kind) |

#### Implementing Agencies:

International Institute for Environmental and Development (IIED) and World Conservation Monitoring Centre (WCMC)

#### Starting Date and Duration:

To be determined

#### The aim of proposed study is:

- (i) to explore the feasibility of adopting, within the producer countries of ITTO, a system of regular forest resource accounting which takes full account of the wide responsibilities of ITTO for forest conservation and management. This would be designed to:
  - give an accurate quantitative assessment of the present condition of their forest resources;
  - provide an evaluation of the standard of management of these; and
  - indicate further target figures and quality objectives.
- (ii) If such a system should prove feasible, to gain its general application by the ITTO producer countries, and, if possible, extend its use to all countries containing tropical forest.

The detailed workplan for this Study is yet to be drawn up. Two target countries are yet to be identified for the Study. The Study is to be undertaken by the IIED and the WCMC with the co-operation of the target countries.

## 2.2 Projects

At its Eight and Ninth Sessions the Permanent Committee reviewed progress on the status of various Projects approved for implementation by the Council. They are PD 14/87 (M) (approved in 1987), PD 7c/87 Rev.1 (M) (approved in 1988), PD 66/89 (M) (approved in 1989), PD 42/88 Rev.1 (M) (approved in 1989), PD 82/90 (M), PD 7a/87 Phase II (M) and PD 118/90 (M) (approved in 1990). The Committee approved in the year under review five projects: PD 124/91 Rev.1 (M), PD 158/91 Rev.1 (M), PD 167/91 (M), PD 173/91 Rev.1 (M), and PD 182/91 (M). Two projects [PD 1/87 (M) and PD 7a/87 Phase II (M)] which were still awaiting financing were reviewed during the Ninth Session and removed from further consideration under the terms of the sunset clause of Decision 2(X). At least one of these [PD 7a/87 (M)] will continue to be partly implemented by FAO funding. Extension of the activities under two other projects [PD 60/88 (M) and PD 73/88 (M)] of direct interest to Economic Information and Market Intelligence is covered in appropriate sections of the Report on Forest Industry.

### 2.2.1 Completed Projects

In the period under review two Projects were completed. [PD 14/87 (M) and PD 7c/87 Rev.1 (M)]:

- (1) PD 14/87 (M) Market Analysis of the Wood Flow as a Basis for an Early Warning System for the Tropical Timber Market

**Budget and Funding Sources:**

|                          |            |
|--------------------------|------------|
| Total budget             | \$ 187,000 |
| Govt. of the Netherlands | \$ 37,500  |
| ITTO                     | \$ 149,500 |

**Implementing Agency:**

Stichting Bos en Hout (SBH)  
(Foundation for Forest and Forest Products)

**Starting Date and Duration:**

1 May 1988  
2 1/2 years (1988 - 1991)

The final report on this Study was submitted for discussion at the Eighth Session of the Committee. The output of the Project was the development of a blueprint for a market information system (an Early Warning System) which will be capable of predicting general trends in the European tropical timber market. A follow-up Project was proposed which would enable the system to be given a test-run in a practical situation.

- (2) PD 7c/87 Rev.1 (M) Statistical Information and Market Indicators: Market News Service for Tropical Timber and Timber Products

**Budget and Funding Sources:**

|                      |            |
|----------------------|------------|
| Total budget         | \$ 772,078 |
| Govt. of Sweden      | \$ 386,039 |
| Govt. of Switzerland | \$ 386,039 |

**Implementing Agency:**

International Trade Centre (UNCTAD/GATT)

**Starting Date and Duration:**

1 January 1990  
2 years

The Tropical Timber MNS project was started up in January 1990, with the first report issued on 26 June 1990. From that date to the end of October 1991, 34 reports have been issued, on time, on alternate Tuesdays and transmitted to subscribers, contributors, government departments and trade associations and organizations worldwide.

## Subscriptions

In accordance with the project plan, the system of paid subscriptions was introduced effective from 30 June 1991, one year from issue of the first report.

The number of new subscribers continues to grow and it is encouraging to note that apart from conversions of existing recipients from the original free issues to a paying basis, which is still proceeding, there have been unsolicited subscription enquiries from some 20 countries including Malaysia, Singapore, Bolivia, Brazil, Germany, France, UK, USA, Canada, New Caledonia, Fiji, Thailand, Mozambique, Tanzania, India, Venezuela, Guatemala, Finland, Swaziland, Indonesia and Nigeria. Member governments of ITTO receive the reports free of charge, as do the considerable number of correspondents worldwide providing the price and other information for the reports. These correspondents incur significant expenses in telephone, fax, personal and corporate time in giving regularly and freely of their expertise in contributing towards the input for the reports. The service could not function without their assistance and cooperation.

In addition to the voluntary, unpaid correspondents, MNS has arranged three paid consultancies which provide regular collated information and data from producing and consuming regions. These are basic sub-contractors, each with their own network of correspondents. If the project continues, it is proposed to extend this scheme so as to spread the load of information-gathering. It is planned to pay a modest sum as fees to the sub-contractors in producing regions.

Other very short-term consultancies have been commissioned covering most EEC consuming countries and Francophone African producing countries. As the project continues, considerably more effort would be exerted in order to extend the correspondent network and the distribution of the reports in ITTO member countries.

## Distribution

This aspect of the service is, of course, closely linked with questions of paid vis-a-vis unpaid subscriptions, which is a question of policy relating to the degree of emphasis placed by ITTO on widest distribution on the one hand and the greatest subscription income, on the other hand. MNS has proceeded on the basis that the desired market transparency will be achieved by good information widely distributed. In the initial stages of the project the obvious need has been to obtain the widest distribution as quickly and as economically as possible. With the keen interest of some trade associations and organizations it became apparent that by encouraging them to distribute the MNS reports to their members, immediate distribution could be extended to a very large number of active traders in producing and consuming countries without incurring long delays and high costs involved in trying to identify and then reach these traders individually.

This method of distribution is very cost effective as MNS has to transmit to only one recipient to reach possibly some hundreds of trade readers, with the recipient organizations bearing the costs of onward transmission to their members. However, while achieving a considerable saving in costs to the project, this does reduce the potential of generating income from individual subscribers.

Subscription income goes some way to defraying report transmission costs; but because the project will not be entirely self-funding, it is clear that pursuit of subscription income at the expense of wide distribution, particularly in developing countries, would not only negate the major aim of market transparency but is likely also to add to total costs rather than reducing them.

The last issue of the MNS under the current phase of the Project was to be on 17 December 1991. In view of the usefulness of the MNS its continuation has been acknowledged. As at the end of 1991 and at its Tenth Session the Council approved a successor project proposal PD 173/91 (M). An evaluation of the first phase of the Project is to be undertaken including a user survey to determine the extent of the continued usefulness of the MNS.

### 2.2.2 Projects in Progress

- (1) PD 42/88 Rev.1 (M)      The Structure of China's Tropical Timber Market, the Current Situation of International Co-operation of the PRC, and Prospects to the Year 2000

**Budget and Funding Sources:**

|                 |                     |
|-----------------|---------------------|
| Total budget    | \$ 129,500          |
| Govt. of France | \$ 99,500           |
| ISTIF           | \$ 30,000 (in kind) |

**Implementing Agency:**

Institute of Scientific and Technical Information of the Chinese Academy of Forestry (ISTIF)

**Starting Date and Duration:**

1 August 1991  
2 years

Funds for implementing the Project were released to the ITTO by the Government of France at the end of January 1991. The Project Agreement was signed in May. The first disbursement of funds for implementing this project was made in August 1991, marking the official start of this 2 year project. Since then the ISTIF project team, led by Prof. Lin Fengming has purchased a Compaq 386 Computer and begun to develop the database structure which will form the analytical core of the project. Initial contacts have been made with officials in China's tropical provinces in order to facilitate a survey of domestic tropical forest resources. Contacts with relevant government officials are being cultivated to ensure access to relevant population and economic forecasts and other necessary collaboration. An extensive literature survey covering China's historical tropical timber production and imports has been completed, and existing forecasts have been collated.

The ISTIF team would be undertaking international missions called for under the project and has requested and received ITTO assistance in establishing contacts in the selected Asian and Latin American countries to be visited in 1992.

- (2) PD 82/90 (M)      Workshop on Issues Related to Incentives to Promote Sustainable Development of Tropical Forests

**Budget and Funding Sources:**

|                    |               |
|--------------------|---------------|
| Total budget       | \$ 115,043.40 |
| Govt. of Australia | \$ 15,043.40  |
| Govt. of Japan     | \$ 100,000.00 |

**Implementing Agency:**

ITTO

**Starting Date and Duration:**

1 October 1991  
6 months

This Project was originally designed to be implemented after the completion of the Pre-Project Study by the Oxford Forestry Institute: "Incentives in Producer and Consumer Countries to Promote Sustainable Development of Tropical Forests." However, in view of the decision of the Council to organize a Round Table on "The Agenda for Trade in Tropical Timber from Sustainably Managed Forests by the Year 2000", it was necessary to delay this workshop to take advantage of the findings of the Round Table. The final Report of the Round Table has been circulated to delegations. As noted in Decision 3(X), the Workshop will now seek to identify options for members in formulating trade policies which will promote sustainable development of tropical forests. The Workshop will take place at the University of Melbourne, Australia, from 17 to 21 February 1992. Approximately 30 experts/participants will be invited. By decision 3(X) of the Council this Workshop is to be held as part of the Strategy to attain the objectives of ITTO Target 2000.

- (3) PD 118/90 (M) Training Workshops on Tropical Forestry and Timber Trade Statistics

Budget and Funding Sources:

|                         |            |
|-------------------------|------------|
| Total budget            | \$ 595,652 |
| Govt. of Japan          | \$ 595,652 |
| Participating Countries | (in kind)  |

Implementing Agency:

ITTO

Starting Date and Duration:

1 December 1991  
2 years

Preliminary consultations with FAO and a consultant in Nancy, France, were held in early 1991. The first workshop for Francophone Africa was held at the University of Dschang in Cameroon from 13 October to 1 November 1991. The content of the course was organized for ITTO by a team led by Mr. G. Buttoud of INRA in Nancy, France with inputs from the ITTO Secretariat, FAO Forestry Department and the African Timber Organization.

The participants selected from the six Francophone ITTO members (Cameroon, Congo, Cote d'Ivoire, Gabon, Togo and Zaire) were drawn from various government departments and had various levels of experience in collecting and analyzing forest statistics. All were at an early stage in their professional careers. They all showed enthusiasm for participating in the workshop.

A report on the outcome of the workshop, including summaries of case studies prepared by the participants and recommendations for further work to improve statistical capabilities in the participating member countries have been prepared and will be presented to the ITTC at its Twelfth Session in Yaoundé, Cameroon in May 1992. Consultations and arrangements for the second Workshop, in Latin America, tentatively scheduled for June 1992, are underway.

- (4) PD 124/91 Rev.1 (M) Study of the Substitution of Bamboo for Tropical Timber as Raw Materials in China

Budget and Funding Sources:

|                             |                     |
|-----------------------------|---------------------|
| Total budget                | \$ 251,300          |
| Govt. of Japan              | \$ 191,300          |
| Chinese Academy of Forestry | \$ 60,000 (in kind) |

**Implementing Agencies:**

Bamboo Information Centre and Chinese Academy of Forestry (CAF)

**Starting Date and Duration:**

1 January 1992  
2 years

Consultations on a Project Agreement between ITTO and the Chinese Academy of Forestry have been concluded; the Agreement was signed in early November 1991. The first instalment of funds was then released.

Substantial progress can already be reported on this project. A four-member project team has been formed under the leadership of Prof. Zhu Shi Lin of the Bamboo Information Centre in Beijing. The Centre already has a substantial data base on bamboo research and literature, the dissemination of which is its primary function.

The first activity to be carried out after receipt of project funds will be a survey of present bamboo resources and the economics of their large-scale utilization in the various bamboo producing regions of China. This will take place in early 1992. The international travel called for by the project will entail visits by members of the project team to bamboo research and utilization centers in Japan, India, Malaysia and Thailand. The Smithsonian Institute and the Oxford Forestry Institute/Kew Botanical Gardens, both of which hold substantial collections of bamboo genetic resources and information on their use, will also be visited. Prof. Zhu has already made contact with some of the relevant organizations with the study visits due to begin in mid-1992. The project team has requested ITTO assistance with international travel arrangements.

Planning has also already begun for the International Symposium on Bamboo Utilization called for by the project. This is tentatively scheduled for 7-11 December 1992 in Beijing, to be followed by a field trip to some of China's bamboo producing regions. Forty invited experts will present papers at the symposium, of whom fifteen will be international participants whose travel costs will be covered by ITTO. Proceedings of this symposium will be published and included in the final report of the project.

- (5) PD 158/91 Rev.1 (M)      Market Intelligence: Analysis of the Wood flow as a Basis for an Early Warning System for the Tropical Timber Market - Phase II: Testing the System

**Budget and Funding Sources:**

|                      |            |
|----------------------|------------|
| Total budget         | \$ 180,700 |
| Govt. of Japan       | \$ 107,700 |
| Govt. of Netherlands | \$ 73,000  |

**Implementing Agency:**

Stichting Bos en Hout (SBH)

**Starting Date and Duration:**

1 December 1991  
1 year

At the Eighth Committee Session in Quito in May 1991 the final report of project PD 14/87 (M) "Market Intelligence; Analysis of Wood Flow as a Basis of an Early Warning System for the Tropical Timber Market" was submitted and approved by the Council. This Project examined the feasibility of setting up a market information system to provide information on the flow of tropical hardwood, from import harbor to the end-user, throughout the European Community (EC). A market intelligence system was developed in order to provide the following information:

- (i) the development of the markets for different tropical timber products/species (including end uses);
- (ii) the market position of tropical timber in comparison with that of non-tropical timber species or non-timber materials in the European Community;
- (iii) estimates of future developments in Western European markets by means of an early warning system.

During the same Committee Session, as a follow up a new project proposal PD 158/91 (M) "Market Intelligence; Analysis of the Wood Flow as a Basis for an Early Warning System for the Tropical Timber Market - phase II: Testing the System" was submitted for approval by the government of the Netherlands to the ITTC. The Council approved the project for immediate financing and implementation. The Project Agreement has been signed by ITTO and SBH and work on the study has begun.

Whereas project PD 14/87 (M) concentrated on the building of the market information system, PD 158/91 (M) will concentrate fully on data collection. The objectives of PD 158/91 (M) are to investigate in Western Europe:

- (i) The extent to which the proposed system developed in project PD 14/87 (M) meets the requirements of an Early Warning System;
- (ii) The extent to which the commitments of the participating organizations to collect additional market information will be met in practice;
- (iii) Proposals for further adjustment and refinement of the proposed system with particular attention to the possibilities of optimizing information collection;
- (vi) Changes that might become evident after 1992, when the European markets have become unified, as far as these changes have consequences for the market information system.

Preliminary results were received from market research on the end-use market of stair-cases, windows, external doors and internal doors. At this time SBH is checking the data. The final report of these markets is expected by the end of 1991. SBH officials were to visit Switzerland and the U.K. to discuss further details about the implementation of the system before the end of 1991.

- (6) PD 66/89 (M) Study of the Trade and Markets for Tropical Hardwoods and Derived Manufactures in North America

#### Budget and Funding Sources:

|                        |                                     |
|------------------------|-------------------------------------|
| Total budget           | \$ 181,460                          |
| Govt. of Canada (CIDA) | study directly commissioned by CIDA |

#### Implementing Agency:

John V. Ward & Associates

Co-operating Agencies:

Forestry Canada and U.S. Department of Agriculture Forest Service

Starting Date and Duration:

To be determined  
6 months

At its Seventh Session the Committee was informed that the USDA Forest Service and Forestry Canada were to consult to explore the possibility of undertaking this Project jointly. A similar initiative had been taken by these two agencies in the case of another study completed for the ECE Timber Committee on "Timber Trends and Prospects for North America." ITTO was later informed that the Government of Canada (CIDA) had commissioned the Study for ITTO from John V. Ward & Associates. The study is due to be submitted to the Tenth Session of the Permanent Committee.

- (7) PD 7a/87 (M) Phase II Rev.1 Statistical Information and Market Indicators: Development of the Monthly Bulletin "Tropical Forest Products in World Timber Trade" - Phase II

Budget and Funding Sources:

|                           |            |
|---------------------------|------------|
| Total budget              | \$ 220,010 |
| Donor(s) to be determined | \$ 220,010 |

Implementing Agency:

Food and Agriculture Organization of the United Nations (FAO)

Starting Date and Duration:

To be determined  
2 years

Phase I of this Project identified areas of improvement and methods for updating the Bulletin as it currently exists. In August 1991, the ITTO Secretariat received the terminal report on Phase I of this project from FAO. Funds for Phase II of the Project, which will implement the proposals made under Phase I, have not yet been pledged. At the Ninth Session of the Committee, the FAO representative indicated that the FAO had allocated some limited funds for publication of the Bulletin in 1992. Thereafter continuation would depend on the expression of interest on the part of ITTO to support the efforts of FAO. The Committee expressed its ongoing support and the project has now been removed from further consideration under the terms of the sunset clause of Decision 2(X).

- (8) PD 1/87 (M) Structure of Tropical Timber Markets in Belgium-Luxembourg, Federal Republic of Germany, Netherlands and United Kingdom and Methods to Study the Main End-Use Segments

Budget and Funding Sources:

|                           |            |
|---------------------------|------------|
| Total budget              | \$ 211,418 |
| Donor(s) to be determined | \$ 211,418 |

Implementing Agency:

Food and Agriculture Organization of the United Nations (FAO)



Starting Date and Duration:

To be determined  
9 months

By the decision of the Committee at its Fifth Session, this Project is to be reviewed in the light of changes to its outputs which might be necessary after the Committee considers two reports it had requested, namely:

- (i) A report on a methodical survey commissioned by the FAO from a consultant, Mr. R.J. Cooper of the University College of North Wales;
- (ii) A report by the SBH giving details of its work on end-use [from PD 14/87 (M)] and how it can be co-ordinated with PD 1/87 (M).

The second report was considered by the Committee at its Eighth Session. At its Ninth Session the Committee received copies of the FAO Report entitled "High-Value Markets for Tropical Sawnwood, Plywood and Veneer in the European Community." The Study had been conducted as pre-requisite for this Project. The Committee welcomed the SBH and FAO Reports as a first step in the eventual possible formulation of a joint FAO/ITTO Study on tropical timber markets. Such a study should complement the output of the above FAO Study and the ongoing work under PD 14/87 (M) and PD 158/91 Rev.1 (M). Any proposal for future work must be resubmitted to the Permanent Committee as this project has now been removed from further consideration under the sunset clause of Decision 2(X).

- (9) PD 167/91 (M)                      Diagnosis and Evaluation of the Brazilian Forestry Sector

Budget and Funding Sources:

|                         |                  |
|-------------------------|------------------|
| Total budget            | \$ 1,743,000     |
| Govt. of Norway         | \$ 150,000       |
| Govt. of Japan          | To be determined |
| Govt. of United Kingdom | To be determined |

Implementing Agencies:

Brazilian Institute for Renewable Natural Resources (IBAMA) and Brazilian Foundation for Nature (FUNATURA)

Starting Date and Duration:

To be determined  
1.5 years

The Project proposes to undertake an analysis of the Brazilian forestry sector and to prepare comprehensive statistical reports for each of the country's 27 States. These reports will consist of the following sections:

- (i) the forestry sector of the economy;
- (ii) forest resources;
- (iii) forest reserves;
- (vi) market diagnosis;
- (v) primary production profile (By species, ownership, etc.);
- (vi) secondary production profile;

- (vii) labour (supply and demand);
- (viii) research and development;
- (ix) forestry institutions;
- (x) forest legislation and policies.

Data will be collected through large-scale surveys in each state and in collaboration with their forestry authorities. The Project is designed to update an earlier 1982 Forestry Diagnostic which was itself an update of a 1978 Project of Forestry Development and Research.

The Project was approved by Council at its Eleventh Session in November/December 1991. So far funds have not been released and preparations for start-up are still pending.

- (10) PD 173/91 (M)                      Market News Service for Tropical Timber and Timber Products,  
Phase II

Budget and Funding Sources:

|                           |            |
|---------------------------|------------|
| Total budget              | \$ 924,000 |
| Govt. of Sweden           | \$ 220,000 |
| Govt. of Switzerland      | \$ 220,000 |
| Donor(s) to be determined | \$ 484,000 |

Implementing Agency:

International Trade Centre (UNCTAD/GATT)

Starting Date and Duration:

1 January 1992  
2 years

This is the second Phase of Project PD 7c/87 Rev.1 (M), and is designed to ensure the continuation of the Market News Service for another period of two years (1992 - 1993). So far Sweden and Switzerland have each pledged \$300,000. It is expected that other donors would join in co-financing the Project. The Council has, however, authorized the continuation of the MNS for at least one year pending the availability of the remaining funds. The Governments of Sweden and Switzerland have indicated their willingness to release funds. Meanwhile the MNS continues functioning as usual.

- (11) PD 182/91 Rev.1 (M)                      Analysis of Macro-Economic Trends in the Supply and  
Demand of Sustainably Produced Tropical Timber in the Asia-  
Pacific Region: Phase I

Budget and Funding Sources:

|                |           |
|----------------|-----------|
| Total budget   | \$399,000 |
| Govt. of Japan | \$399,000 |

Implementing Agency:

ITTO

Starting Date and Duration:

To be determined  
1 year

The Project proposes to provide macro-level estimates of the availability of trade in sustainably produced tropical timbers to the Year 2000 and beyond. The first phase of the project will focus on the Asia-Pacific region. The Project will assist policy - making and planning in all member countries. It will result in a database of sustainable timber supplies in the Asia-Pacific Region and a macro-economic, econometric mode capable of forecasting demand and trade flows. These outputs will be summarized in a report to be submitted to Council and to be made available to members. This Project was approved by the Council at its Eleventh Session in November/December 1991. Preparations are underway to commission the Study after competitive bidding by several consultancy firms and agencies.

## **2.3 Non-Project Activities**

### **2.3.1. Annual Market Review and Outlook**

The 1991 Market Discussions took place in Quito, Ecuador on 30 May 1991 during the Eighth Session of the Permanent Committee and the Tenth Session of the Council. The Chairman was Dr. Gary Lindell (U.S.A.), the Rapporteur was Mr. Arthur V. Morrell (U.K.). The discussion focussed on the general theme of "Trends in the Trade of Tropical Timber Products in the Latin American/Caribbean Region." The keynote speaker was Mr. Jaime Muñoz-Reyes Navarro of Bolivia. Discussion leaders made presentations on sub-themes from the Brazilian, North American and European perspectives.

The discussion leaders were:

- |                         |  |
|-------------------------|--|
| Dr. Ivan Tomaselli      | Senior Consultant, STCP, Curitiba, Brazil                                    |
| Mr. Frank Sheridan      | President, Afrasian Gross Veneer Sales, Mineola, New York, U.S.A.            |
| Dr. Geoffrey K. Elliott | Consultant, Price and Pierce (Technical Services) Ltd., Woking, Surrey, U.K. |

The host country's presentation was given by Mr. Zaruat Dassum E, President of the Timber Industries Association of Ecuador. His topic was "The forest resources situation, the developments in the timber trade and industry of Ecuador." Annexed to this report is the General Tropical Timber Market Statement 1991 issued after the Market Discussions.

The Committee at its Ninth Session decided on the theme and subjects for the 1992 Market Review to be held in Yaoundé, Cameroon, during the Twelfth Session of the Council:

- (i) General Theme: Lesser Known Species and Sustainable Forest Management and Trade in Tropical Timber Products
  - a. African Perspective
  - b. Asia-Pacific Perspective
  - c. Latin American/Caribbean Perspective
  - d. European Perspective
  - e. North American Perspective
- (ii) Host Country Presentation: The Forest Resources Situation, the Developments in the Timber Trade and Industry of Cameroon

## **2.4 Statistical Operations**

### **2.4.1 Data Processing - Hardware**

ITTO's computer configuration was substantially upgraded in 1991. Novell network hardware was installed in the new office in August, allowing for the connection of up to 20 workstations. Currently 16 computers are linked to the network (one IBM PC/AT, four IBM PS2 Model 30, eight IBM PS2 Model 50, two IBM PS2 Model 55 and one IBM PS2 Model 80), six of which were acquired in 1991. The previous PC LAN configuration had only five workstations connected. The network server is an IBM PS2 Model 80. Three printers can be accessed by all network users: two laser printers (HP Laserjet III and Kyocera F1000+) and a dot-matrix printer (Seikosha line printer). In addition, several laptop computers are in use by staff on mission travel (Toshiba J-3100SGT, Toshiba Dynabook J-3100SX021, Toshiba Dynabook J-3100SS and Fuji Xerox Dynabook J-3100SS02E). A Canon ASF6410 bubble-jet printer was purchased in 1991 for mission travel.

Other peripherals in the ITTO computer configuration include two (2) IBM 5202 sheet printers, an IBM Quietwriter printer and an HP7475A plotter. Four new workstations will be ordered in 1992 to provide for increasing staff numbers and to replace the obsolete PC/AT and one Model 30. An optical filing system is also under consideration to cope with the increasing volume of correspondence.

### **2.4.2 Data Processing - Software**

Updated versions of SAS (statistical software), Dbase (data base software) and the Sun Accounting System were installed during 1991. Microsoft Word (v.5) was acquired to facilitate dealings with translators and others using this product.

Several specialized data-bases were acquired or accessed in 1991, including PC-Agrostat (FAO), Tropical Timber Conservation Database (WCMC), Trade Control Measures Database (UNCTAD) and the ECE's Statistical Data Base (ECE-FAO).

### **2.4.3 Processing of Statistical Data and Forecasts**

In September 1991, the Annual Forecasting & Statistical Enquiry Questionnaire was sent to all member countries. By the end of 1991 50% of ITTO's members had responded. This was the first year that the revised version of Enquiry Questionnaire (presented to the Permanent Committee on Economic Information and Market Intelligence at its Eight Session in November 1990) was sent to members. Consumer data had previously been obtained from ECE-FAO statistics which do not reach the level of detail called for in the ITTA.

Responses, in general, are more informative than in previous years, with greater details of trade flows from both producers and consumers and on forest resources and industry structure from producing countries. Revision of the Enquiry will be ongoing, based on member's comments and difficulties in completing the 1991 version.

### 3. REFORESTATION AND FOREST MANAGEMENT

#### 3.1 Pre-Projects

A total of three Pre-Project proposals were reviewed by the Committee during 1991. All were approved for implementation subject to financing being available. These approved Pre-Projects were:

- |               |   |
|---------------|---|
| PPD 43/91 (F) | Rehabilitation of degraded Forest Land in the Amazon -<br>A Case Study in the Carajas Mineral Province (\$ 218,000) . |
| PPD 44/91 (F) | Review of the National Forest Situation so as to Establish a<br>National Policy (\$ 100,000).                         |
| PPD 47/91 (F) | Survey of the Progress on Technology Generation Regarding<br>Dipterocarps Vegetative Propagation (\$ 200,500).        |

Finance was pledged by the Government of Japan to support PPD 44/91 (F) at the Eleventh Session of the ITTC. However, at the end of the year, the other two Pre-Projects listed above were still awaiting financing. The status of other Pre-Projects that were either completed or on-going are reviewed in sections 3.1.1 and 3.1.2.

##### 3.1.1 Completed Pre-Projects

Three Pre-projects were completed in 1991.

##### (1) Study of Conservation Concerns Relating to the Diversification of Species Extracted for Timber (\$ 224,000)

The Pre-project had been developed by the Secretariat in cooperation with WWF International and was submitted for consideration by the Committee which decided, at its Third Session in November 1988, to implement the study.

The Council, at its Fifth Session in November 1988, authorized the Executive Director to commence implementation of the Pre-project when earmarked funds were made available for this purpose. The Government of Denmark decided in March 1989 to earmark \$ 224,000 of its voluntary contribution to the Special Account for financing this Study.

The International Institute for Environment and Development (IIED), London, was chosen to execute the Pre-project, and ITTO and IIED signed a Memorandum of Agreement to regulate the implementation in June 1989.

The collection of field data was completed in 1990 and the report of the Study was presented to the Eighth Session of the Committee in May 1991. The Committee recommended approval of the report for both translation and publication. This approval was given by the Tenth Session of the Council, and publication is expected during 1992 as funds become available for this purpose. In response to the report, the Committee also recommended that a one day joint discussion considering all aspects of lesser known species be held. This session was subsequently held during the Eleventh Session of the ITTC which met in Yokohama from November 28 - December 4 1991.

**(2) Silvicultural Treatment through Selective Felling as Part of A Pilot Forest Development Project in the South Bakundu Forest Reserve, Cameroon (\$ 35,000)**

The Committee decided, at its Fourth Session in May 1989, to implement this Pre-project to assist the Government of Cameroon to further develop a Project Proposal with the same title [document number PD 52/89 (F)], submitted for consideration of the Committee and the Council. The Council allocated, at its Sixth Session, \$ 35,000 for the financing of the Pre-project.

Terms of Reference and an Agreement between ITTO and the Government of Cameroon for the implementation of the Pre-project were finalized in January 1990. Field work on the Pre-Project was completed in mid-1991 and the Secretariat received a Pre-project Report (in French) in November 1991. Because of the late receipt date, the report was not formally presented to the Ninth Session of the Committee which met from November 28 - December 4. However, the report will be submitted to the Tenth Session of the Committee which meets from May 6-14, 1992.

**(3) Manmade Forests of Indigenous Species - A Systematic Preparation to Industrial Tree Plantations, Ghana (\$ 35,000)**

The Committee decided at its Fourth Session to implement a Pre- project to assist the Government of Ghana to further develop Project Proposal PD 46/88 (F) Rev. 1 Manmade Forests of Indigenous Species - A Systematic Preparation to Industrial Tree Plantations, Ghana. The original Project Proposal PD 46/88 (F) had been revised on the advice of the Secretariat. The Council allocated, at its Sixth Session, \$ 35,000 for the execution of the Pre-project.

An Agreement for the execution of the Pre-project was concluded in February 1990. A preliminary report was presented to the Secretariat before the Ninth Session of the Committee. This report very briefly summarized the experiences of a number of African countries with industrial tree plantations and foreshadowed a more detailed final report. This subsequent report was presented to the secretariat during the Ninth Session of the Committee and will be formally submitted to the Tenth Session of the Committee.

**3.1.2 Pre-Projects in Progress**

Five approved Pre-projects were, at the end of 1991, under execution or in the process of being prepared for execution. Summaries of their status of development at the end of 1991 are given below.

**(1) Management of Natural Tropical Moist Forests to Obtain a Sustainable Production of Wood and Other Forest Products and Maintain the Ecological Balance in Ecuador (\$ 75,000)**

The Committee decided, at its Second Session in June 1988, to implement this Pre-project to assist the Government of Ecuador to further develop a project proposal with the same title [document number PD 30/88 (F)], submitted for consideration of the Committee. The Council allocated, at its Fourth Session, \$ 75,000 for financing of the Pre-project. Terms of Reference was signed in May, 1990.

The Pre-project was expected to be completed in January 1991 and led to the presentation of a Project Proposal PD 159/91 Rev.2. "Studies for the Regulation and Sustained Management of the Tropical Rainforests of the Province of Napo and Sucumbios" which was considered and approved at the Tenth Session of the ITTC. However, on August 1, 1991, the Secretariat received a financial report from the Subsecretariat of Forestry in Ecuador which indicated that only some 60% of the original financial allocation had been

spent in producing the proposal. The Under Secretary of Forestry and Renewable Natural Resources in Ecuador had previously written a letter 17 July foreshadowing this report and requesting that the remainder of the money be used to consolidate the Napo-Sucumbios Project in relation to the involvement of indigenous communities in accordance to the recommendations given by the Permanent Committee on Reforestation and Forest Management and the ITTO Council in Quito.

At its Ninth Session, the Committee endorsed the use of previously allocated Pre-project funds for the purpose suggested, including making allowance for the visit of the independent, international review team to aid in this process as suggested by the delegates at Ecuador in the final formal meeting of the Eighth Session of the Permanent Committee on Reforestation and Forest Management in Quito.

**(2) Coordinated Natural Forest Management and Sustainable Rural Development in Areas Adjoining Sapo National Park, Liberia (\$ 25,000)**

The Committee decided, at its Third Session in November 1988, to implement this Pre-project Study to assist the Government of Liberia to improve and further develop a Project Proposal with the same title [document number PD 45/88 (F)], submitted for evaluation of the Committee. The Council allocated, at its Fifth Session, \$ 25,000 for financing of the Pre-project.

An Agreement, between the Government of Liberia and ITTO, regulating the execution of the Pre-project has been established and came into force on 26 October 1989. The Study has not yet been completed due to the continued political instability in Liberia.

**(3) Sustained Development in the Amazon Region (\$ 70,000)**

The Committee decided at its Fifth Session in November 1989 to implement this Pre-project which had been proposed by the Government of Brazil. The Council decided at its Seventh Session to allocate \$ 70,000 for the financing of the Study.

An Agreement, with attached Terms of Reference, for the execution of the Pre-project was signed on July 10 1990 and the first transfer of funds took place on August 6, 1990. An additional transfer of \$ 15,000 was made on September 20, 1991 to augment the funds for the finalization of the Pre-project.

Implementation of the Pre-project started in September 1990 with Brazilian Foundation for Nature (FUNATURA) as Executing Agency. A report on Part 1 of the Pre-project entitled "Agroforestry Systems Adapted to Amazonia" was received by the Secretariat on 18 September 1991. The Ninth Session of the Committee noted the receipt of this report. The Committee further noted that the project objectives envisaged that the final report would contain amongst other things:

- (i) An analysis of the information necessary to prepare projects for establishing 3 agrosilviculture production experiments of 50ha each.
- (ii) An analysis of the information necessary to establish 3 fruit/industrial timber production experiments of 50 ha each.
- (iii) Project proposal documents to establish one agrosilviculture production experiment and one tropical fruit/industrial timber production experiment.

The Committee therefore expected that Project proposals developed during this Pre-project may be presented for the consideration of the Committee in the future.

**(4) Realistic Strategies for the Conservation of Biological Diversity in Tropical Moist Forest (\$ 190,000)**

This Pre-project is being jointly implemented by IUCN and ITTO, and an Agreement was signed in June 1990. Country reviewers were identified and reports were presented and discussed at a workshop during the IUCN General Assembly in Perth, Australia in early December, 1990. A draft interim report was presented to the Eighth Session of the Committee in document PCF(VIII)/11. The Committee considered this report and recommended that it be used as input into the deliberations of the Working Group on the Conservation of Biodiversity in Tropical Production Forests, a recommendation adopted in Decision 6 (X) of the Council. The Committee also recommended that the document "Realistic Strategies for Conservation of Biological Diversity in Moist Forests" should be translated and published.

**(5) Sustainable Multiple Use (\$ 276,958)**

The Pre-project was proposed by the Government of Malaysia and was approved by the Committee at its Seventh Session. The Council made funds available at its Ninth Session in November 1990. An Agreement covering the execution of this Pre-Project was subsequently signed on 13 November, 1991, and it is expected that the Pre-Project will become operational soon.

### **3.2 Projects**

#### **3.2.1 Project Proposals and Project Ideas**

In the field of Reforestation and Forest Management, a total of forty-nine Project proposals were reviewed by the Permanent Committee during 1991. The Committee recommended that twenty eight Project proposals be implemented and these proposals were approved by the Council, including one Project proposal which was approved for sponsorship to other organizations. For twenty-one of these projects, the Council provided immediate financing. The Council also provided full financing for three projects which were approved, but not funded, in previous Sessions. Seven Project Ideas were presented to the Committee for consideration and five of these were recommended to be developed into Project proposals. The two other Project Ideas were commended by the Committee and were subsequently approved by the Council as Activities under the supervision of the permanent Committee on Economic Information and Market Intelligence.

Following the Committee's recommendations, the Council approved the implementation of the following Projects, with the ITTO contribution shown in parenthesis:

|                     |  |
|---------------------|--|
| PD 119/91 Rev.1 (F) | Workshop on Women and Forestry. A Look at African Experiences (\$ 221,600)               |
| PD 128/91 Rev.2 (F) | Management, Conservation and Development of the Mangrove Forests in Panama (\$ 489,000)  |
| PD 130/91 Rev.2 (F) | Plantation Establishment Methods (First Phase) (\$ 780,000)                              |
| PD 131/91 Rev.2 (F) | Pilot Project for the Sustained Management of the So'olala Forest (\$ 534,000)           |
| PD 132/91 Rev.1 (F) | Training Forestry Workers in Carrying out Certain Tasks Related to Forestry (\$ 161,000) |



|                            |  |
|----------------------------|--|
| PD 138/91 Rev.1 (F)        | Program for Sustainable Forest Management in the Ecuador Forest Institute (\$ 306,440)   |
| PD 139/91 Rev.2 (F)        | Management Plan for the Sustained Production of Orey Forests in the Bocas del Toro Province (\$ 342,300)   |
| PD 140/91 Rev.2 (F)        | Management Plan for the Sustained Yield of the Production Forests of Darien (\$ 677,460)   |
| PD 148/91 Rev.3 (M,F,I)    | Seminar on Economic Case for Sustainable Tropical Forests Management (\$ 115,000)  |
| PD 149/91 Rev.3 (F)        | Technical Workshop to Explore Options for Global Forest Management (The Follow-Up Meeting) (\$ 100,000)  |
| PD 156/91 Rev.2 (F)        | Establishment of Two Model Forest Nurseries and Forest Management Project (\$ 211,636)   |
| PD 157/91 Rev.2 (F)        | The Establishment of an International Network for the Conservation and Sustainable Utilization of Mangrove Forest Genetic Resources (\$ 500,000)                     |
| PD 159/91 Rev.2 (F)        | Studies for the Regulation and Sustained Management of the Tropical Moistforests in the Provinces of Napo and Sucumbios (\$ 1,161,900)                               |
| PD 162/91 Rev.1 (F)        | Intensification of Growth and Yield Studies in Previously Logged Forest (\$ 1,628,000)   |
| PD 164/91 Rev.1 (F)        | Native Species Reforestation as an Alternative for Conserving the Panama Canal Watershed (\$ 140,000)  |
| PD 170/91 Rev.1 (F)        | Modernization and Development of Egyptian Forest Nurseries (\$ 298,000)  |
| PD 171/91 Rev.1 (F)        | Conservation and Management for Multiple Use and Development of Colombian Mangrove Swamps (\$ 2,125,700)   |
| PD 172/91 Rev.1 (F)        | The Recovery of Natural Systems of the Hillsides of Caqueta (\$ 1,065,250)   |
| PD 176/91 Rev.1 (F)        | Sustainable Management for Production, Conservation, Demonstration, Diffusion and Promotion Activities in Moist Tropical Forests in Ecuador's Northwest (\$ 714,670) |
| PD 184/91 Rev.1 (F)        | Multipurpose Tree Planting in Egypt (\$ 495,000)   |
| PD 185/91 Rev.1 (F)        | Sustainable Forest Management and Development in Peninsular Malaysia (\$ 3,468,623)  |
| PD 188/91 Rev.1 (F)        | Reforestation of Rioja (\$ 215,000)  |
| PD 189/91 Rev.1<br>(M,F,I) | Publication of an Andean Forestry Journal (\$ 118,000)   |

|                     |  |
|---------------------|--|
| PD 194/91 Rev.1 (F) | Recuperation and Demonstration Management of Secondary Forests in the Peruvian Amazon<br>(PHASE I: \$ 489,000, PHASE II: \$ 939,500)                       |
| PD 202/91 Rev.1 (F) | Sustainable Forest Management Through Collaborative Efforts (\$ 990,000)   |
| PD 203/91 Rev.1 (F) | Study Relating To Forest Management in the Fazao-Sud Region (\$ 981,743)   |
| PD 204/91 Rev.1 (F) | Identification and Study of a Plantation Project for the Production of Timber (2500 ha) in the Reserved Forest of Halo-Baloe (Plateau Region) (\$ 356,477) |

The Committee recommended that PD 147/91 (F), the "El Telegrafo" Reforestation Project be approved for sponsorship to other organizations. It also recommended that the remaining twenty-one Project proposals be revised in the light of its appraisal and comments. By the end of 1991, the Council had approved a total of some 71 Projects with budget commitments of some \$ 56,007,292 in the field of Reforestation and Forest Management. Of these, 53 Projects with budget commitments of \$ 28,989,097 had secured financing and allocation of funds. The scope and status of on-going projects are briefly reviewed in Sections 3.2.2, 3.2.3 and 3.2.4 below.

### 3.2.2 Completed Projects

No Projects were fully completed in 1991. However, three Projects - PD 24/88 (F), PD 76/90 (F) and PD 117/90 (M,F,I) - completed their field or workshop activities respectively and were only waiting on the production of proceedings and final reports to reach formal conclusion.

### 3.2.3 Projects under Implementation

Twenty-three Projects in the field of Reforestation and Forest Management were under active implementation at the end of 1991. The total budget commitment for these Projects is \$ 16,825,360.

- (1) PD 2/87 (F) Rehabilitation of Logged-over Forests in Asia/Pacific Region

#### Budget and Funding Sources:

|   |               |
|---|---------------|
| Total Budget:   | \$ 1,227,100* |
| Government of Japan:                                    | \$ 676,140    |
| To be determined:                                       | \$ 550,960    |
| * plus contributions in kind by participating countries |               |

#### Implementing Agency:

Japan Overseas Forest Consultants Association (JOFCA) [Phases I & II]

#### Starting Date and Duration:

Phase II April 9, 1991.  
2 years

The Project was approved by the Council at its Third Session in November 1987, but financing was not made available, at that time, for implementation. However, the Government of Japan provided partial financing of \$440,000 for the Project and the Council approved an initial, viable sub-project which was completed in March 1990. The Government of Japan pledged, at the Seventh Session of the Committee, a further contribution of \$ 230,000 to the Project.

At its Ninth Session, the Council decided to implement a second sub-project and allocated \$ 430,000 for this purpose. A new Agreement for the continued implementation of the Project was signed with JOFCA on April 9, 1991. The objective of this second sub-project is to develop a classification system for logged-over forests which has direct relevance to the silvicultural activities that are required to restore the timber-producing capacity of the forest. The Project also aims to test and describe the use of the classification system and to make a preliminary assessment of the extent of each class in tropical Asia, using available imagery.

Two international consultants, one from the Philippines and one from India, have been hired by JOFCA to supplement their own expertise, and JOFCA has developed a provisional classification system with these consultants. This classification was subject to an informal review workshop held in Yokohama on July 26th in conjunction with the Conference of Senior Foresters [see report on PD 117/90 (M,F,I). A number of refinements were made at this workshop and the classification has subsequently been field tested in both Thailand and the Philippines and further reviewed by a panel of experienced field foresters in Manila in December, 1991. The ITTO Secretariat will conduct a mid-term review of the Project in association with the implementing agency in January 1992.

(2) PD 10/87 (F) Forest Management of Natural Forests in Malaysia

Budget and Funding Sources:

|                            |            |
|----------------------------|------------|
| Total Budget:              | \$ 595,145 |
| Government of Switzerland: | \$ 272,350 |
| Government of Malaysia:    | \$ 322,795 |

Implementing Agency:

Forestry Department Headquarters, Peninsular Malaysia.

Starting Date/Duration:

8 August 1988  
10 Years

The Project was approved by the Council at its Third Session in November 1987 and financing was allocated to allow immediate implementation. The Project was slightly amended by the Council at its Fourth Session in Rio de Janeiro in June 1988 to extend the period of ITTO monitoring and review, from the originally approved three years of the establishment phase to the full project period of ten years. This also required allocation of additional budget resources of \$ 15,000 to bring the total ITTO budget contribution to \$ 272,350. The financial support to Project work remains limited to the first three years.

Four research areas have been selected in the following geographic locations:

- |                      |   |
|----------------------|---|
| Virgin forests:      | 1. Lesong Forest Reserve, State of <u>Pahang</u> ;          |
|                      | 2. Sungai Lalang Forest Reserve, State of <u>Selangor</u> ; |
| Logged-over Forests: | 3. Cherul Forest Reserve, State of <u>Terengganu</u> ;      |
|                      | 4. Kledang Saiong Forest Reserve, State of <u>Perak</u> .   |

Following some delays with field work, the Tenth Session of the Council approved an extension of the initial phase of the project until December 1991. In addition, the Eleventh Session of the Council approved the further extension of twelve months for this phase of the Project. It also approved the immediate release of additional finance as soon as earmarked funds became available to allow for the engagement of an international consultant to develop a data management system for the established plots (\$ 30,000), and the conduct of an international workshop to disseminate the preliminary results from the Project (\$ 150,000).

- (3) PD 24/88 (F)      Integration of Forest-Based Development in the Western Amazon -  
Phase I - Forest Management to Promote Policies for Sustainable  
Production

**Budget and Funding Sources:**

|                                |              |
|--------------------------------|--------------|
| Total Budget:                  | \$ 3,075,000 |
| Government of Brazil:          | \$ 1,977,000 |
| Government of Japan:           | \$ 763,000   |
| Government of Switzerland:     | \$ 220,000   |
| Government of the Netherlands: | \$ 85,000    |
| WWF:                           | \$ 10,000    |

**Implementing Agency:**

FUNTAC (Technology Foundation of the State of Acre)

**Starting Date and Duration:**

May 1989  
Three years

The Project was approved by the ITTC at its Fourth Session in Rio de Janeiro in June 1988. The Council also authorized financing and immediate implementation of the Project. The implementation was however subject to certain conditions proposed by the Permanent Committee on Reforestation and Forest Management being met. These conditions required among other things that a mechanism for consultation with the people living in the area and with representatives of other economic sectors concerned with development of the Western Amazon be established. Provision was also made for the continuation, beyond the project period, of long term research started under the Project.

These conditions were met and the exchange of signed documents took place in Abidjan in May 1989 at the occasion of the Sixth Council Session and the Project became officially operational at that time. The Technology Foundation of the State of Acre (FUNTAC), is Executing Agency and will, in the execution of the Project, collaborate with the Brazilian Institute for Renewable Natural Resources (IBAMA), the National Institute for Amazon Research (INPA), The Superintendency for the Development of the Amazon (SUDAM) and the Secretary of Environment and Urban Development of the State of Acre (SEDUMA).

An evaluation report prepared by the Assistant Director was presented to the Eighth Session of the Permanent Committee in May 1991. It noted the task of ITTO then was to review the outputs from Phase I and to decide the best option for the future of the Project. It further noted that the Phase II proposal had elements of concern to both the Forest Industries Committee and the Committee on Reforestation and Forest Management, and recommended that:

- \* Immediate approval be given for Phase II ensuring that greater provision for community consultation and participation were structured into the Project.
- \* FUNTAC convene a sub-regional seminar as specified in the Phase I document before proceeding with the implementation of Phase II. The purpose of this seminar should be to help ensure the wide dissemination of results from the Project so that the maximum benefit could be obtained from the experiences gained during the conduct of Phase I.

The Eighth Session of the Committee also received a detailed presentation from FUNTAC on the outputs of Phase I, and the Permanent Committee on Forest Industries recommended the approval and financing of Phase II of the Project. This recommendation was accepted by the Council, and finance was provided by the Governments of Japan and Switzerland. The sub-regional seminar was held in Rio Branco from November 11-14, 1991, and attracted a large number of delegates from Acre, elsewhere in Brazil, Bolivia, Peru and Cost Rica. Funding for Phase II will be released when the completion Report for Phase I, which is expected in early 1992, is received by the ITTO Secretariat.

- (4) PD 34/88(F) Conservation, Management, Utilization and Integrated and Sustained Use of the Forests in the Chimanés Region, Beni Department, Bolivia

Budget and Funding Sources:

|                            |              |
|----------------------------|--------------|
| Total Budget:              | \$ 2,654,000 |
| Government of Bolivia:     | \$ 1,394,000 |
| Government of Japan:       | \$ 575,000   |
| Government of Switzerland: | \$ 355,000   |
| Government of France:      | \$ 200,000   |
| Government of Denmark:     | \$ 125,000   |
| WWF:                       | \$ 5,000     |

Implementing Agencies:

Center for Forest Development, Bolivia, in cooperation with Conservation International.

Starting Date and Duration:

April, 1990  
Three years

PD 34/88 Rev.1 (F) was approved by the International Tropical Timber Council (ITTC) at its Fifth Session in November 1988, but financing for immediate implementation was not made available at that time. However, an Agreement for regulating the implementation of the Project was concluded in April, 1990, and at the Sixth Session of the Council in May that year, full financing of the Project was secured. An initial amount of \$ 250,000 was transferred to the Project Account from the ITTO Special Account in August 1990.

Subsequently, difficulties were encountered in implementing the project due to problems in settling a compensation claim for land rights surrendered by the Indians who had previously used the land allocated for the Project. However, while steps were being taken to resolve this conflict, some delay in Project implementation was foreseen.

A report on the status of the Project at the end of September 1990 was presented to the ITTO Permanent Committee on Reforestation and Forest Management in November 1990. After considering this report, the Permanent Committee requested the Secretariat to closely monitor the progress of the Project and to conduct a special review of the performance of the Project before the Eighth Session of the Committee and report to that Session of the Committee.

An independent review of the Project was subsequently carried out in the second half of February 1991 by a consultant, Dr. T N. Synnott of the Oxford Forestry Institute. His report was presented to the Eighth Session of the Permanent Committee in June 1991, and following discussions in the Committee, a Memorandum of Understanding (MOU) between ITTO and the Implementing Agency was developed. This MOU allowed for the continuation of project activities at a minimal level until the Ninth Session of the Committee in November 1991, while a further and more complete review of the Project was undertaken. A budget allocation of \$82,000 for a minimal level of project activities and \$20,000 for the review mission was made.

This review was conducted by Dr. T.N. Synnott and the ITTO Assistant Director for Reforestation and Forest Management together with Project Staff and a consultant anthropologist, Ms. Elizabeth Rocabado, during August 1991. An interim report of the review mission was presented to the Government of Bolivia at the end of the mission and was subsequently presented to the Ninth Session of the Permanent Committee in Yokohama together with a more detailed report. In essence, these reports recommended the continuation of the Project for another 2 years with an increased budget to allow for greater emphasis on:

- \* Strengthening the community forestry /extension components of the Project to provide a focus for Project interaction with local communities, particularly the indigenous communities living in or near the forest.
- \* Introducing a significant forest protection component into the project to better address the problem of illegal logging in both the project area and surrounding areas.
- \* Allowing for complete aerial photograph coverage for detailed management planning.
- \* A tighter focus for the forest industries programme to provide for an analysis of the efficiency of current industrialization processes, and to provide a detailed financial analysis of the current production and marketing chains for forest products from the project area.
- \* Conducting a project review workshop early in 1993 to critically evaluate project activities and formulate project proposals for the extension of the project in the context of the wider Chimanés Programme after 1993.

These reports were accepted in principle and a further Memorandum of Understanding was developed following extensive negotiations between the ITTO Secretariat, Members of the Government of Bolivia's Delegation to the Eleventh Session of the ITTC, Representatives of Donor Governments and Organizations financing the Project and NGO's. This MOU was drafted on December 3, 1991 and subsequently endorsed by both the Permanent Committee and the Council.

- (5) PD 53/89 Rev.1 (F) Preparation of A Master Land-Use Plan for Forest Areas,  
Cameroon

**Budget and Funding Sources:**

|                                    |            |
|------------------------------------|------------|
| Total Budget:                      | \$ 480,000 |
| Government of Cameroon:            | \$ 85,000* |
| Government of Japan:               | \$ 373,315 |
| Government of Norway:              | \$ 21,685  |
| * plus other contributions in kind |            |

**Implementing Agency:**

Government of Cameroon

**Starting Date and Duration:**

October 1990  
One year

The Project was approved by the Council at its Sixth Session in May 1989 and at its Eighth Session the Council allocated funds for implementation. An Agreement between ITTO and the Government of Cameroon was concluded on September 19, 1990. The first transfer of funds from the Special Account was made on September 20, 1990. Work on the Project was initiated and in April 1991, Poulin Theriault Ltd. of Canada was selected as the international consultants for the Project. It is expected that the Project will be completed during the first half of 1992.

- (6) PD 58/89 (F) Tropical Forestry Internship

**Budget and Funding Sources:**

|                                 |            |
|---------------------------------|------------|
| Total Budget:                   | \$ 257,700 |
| Institute of Tropical Forestry: | \$ 148,200 |
| USDA Forest Service:            | \$ 109,500 |

**Implementing Agency:**

United States Department of Agriculture  
Forest Service, Institute of Tropical Forestry, Rio Piedras, Puerto Rico

**Starting Date and Duration:**

April 1990  
Three years

This project is designed to promote training and research in tropical forestry by allowing young professionals from member nations to participate in training and research at the Institute of Tropical Forestry. The Project was approved by the Council at its Sixth Session in May 1989. Financing for the implementation of the Project was not made available at that time, but the Council authorized financing and implementation as soon as earmarked funds are available in the Special Account. In April 1990 the US Forest Service made available funds for ITTO's contribution to the Project budget. Invitations to apply for internships were circulated in 1990 and the selection of candidates was initiated, but no further development has been reported during 1991.

- (7) PD 69/89 Rev.1 (F) Workshop on Sustained Tropical Forest Management with Special Reference to the Atlantic Forest

Budget and Funding Sources:

|                      |           |
|----------------------|-----------|
| Total Budget:        | \$ 86,000 |
| Government of Japan: | \$ 86,000 |

Implementing Agency:

Brazilian Institute for the Environment and Renewable Natural Resources (IBAMA) in Cooperation with the Brazilian Foundation for Nature (FUNATURA)

Starting date and Duration:

July 1990  
Eight months

The Project was approved by the Council at its Seventh Session and financing was allocated to allow immediate implementation. An Agreement between ITTO and IBAMA, for the execution of the Project, was concluded in July 1990. The Workshop was planned to be held in March, 1991. However, delays occurred and on November 4, 1991, the ITTO Secretariat received advice from IBAMA that it would be working with the Brazilian Foresters Society (SEBF) to conduct the workshop during 1992.

- (8) PD 71/89 Rev.1 (F) The Economic and Environmental Value of Mangrove Forests and Present State of Conservation

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 270,000 |
| Government of Japan: | \$ 270,000 |

Implementing Agency:

Japan International Association for Mangroves (JIAM) in Cooperation with the International Society for Mangrove Ecosystems (ISME).

Starting Date and Duration:

January 1991.  
18 Months.

The Project was approved by the Council at its Seventh Session in November 1989, but financing was not made available at that time. However, at its Eighth Session in May 1990 the Council allocated full financing for the Project. An agreement between ITTO and JIAM regulating the execution of the Project was concluded in January 1991. Subsequent to that date, JIAM presented a detailed workplan and the first disbursement of funds was made in March 1991. A memorandum of understanding for the actual execution of the surveys associated with the Project was signed between JIAM and ISME in September 1991. A Steering Committee comprising of representatives from JIAM, ISME ITTO and the donor Government, Japan, was held in Tokyo on October 22, 1991. This meeting was followed by a workshop which was held in Bangkok from November 18-20 1991 to develop a reporting framework and encourage the participation of the various National Mangrove Committees in the region. It is expected that the project will be completed in 1992.



A draft Agreement regulating the execution of the Project was sent to the Japan International Association for Mangroves in June 1990 and a letter requesting reply was sent on 21 December, 1990.

- (9) PD 74/90 (F,I) Better Utilization of Tropical Timber Resources in Order to Improve Sustainability and Reduce Negative Ecological Impacts

**Budget and Funding Sources:**

Total Budget: \$ 500,000\*  
Government of Germany: \$ 500,000  
\* plus contributions in kind by participating governments

**Implementing Agency:**

The Federal Research Center for Forestry and Forest Products, Hamburg, Germany.

**Starting Date and Duration:**

December 1990  
Two years

The Council approved the Project, at its Eighth Session in May 1990. and allocated funds for its immediate implementation. An Agreement for the execution of the Project, prepared by the Government of the Federal Republic of Germany, was signed by the Executive Director on December 11, 1990. This agreement is being supplemented with a more direct agreement with the final executing agency which provides for subcontracting agencies in study countries.

A special account has been established by ITTO at the Deutsche Bundesbank in Frankfurt am Mein, and a total of some DM 191,000 had been released by August 1991. As the first activity in the project, the implementing agency has focused on sustainable production in Ghana and has signed an agreement with the Forest Products Research Institute in Kumasi for the conduct of field and mill studies. At the end of the year, the following work had been undertaken:

- \* A study of logging damage and wood waste for one medium size enterprise.
- \* Studies on wood waste and recovery for one sawmill, one veneer mill and one furniture factory.

It is envisaged that a further three logging damage and a further three wood conversion studies will be undertaken in Ghana during the course of the Project with other comparable work in selected other producer countries.

- (10) PD 75/90 (F) Development of Genetic Resistance in the Tropical Hardwood Iroko to the Damaging Insect Pest: *Phytolyma lata*

**Budget and Funding Sources:**

Total Budget: \$ 322,743  
Government of Ghana: \$ 65,333  
Government of Japan: \$ 157,410  
Government of Denmark: \$ 100,000

**Implementing Agency:**

Forest Products Research Institute, Kumasi, Ghana

**Starting Date and Duration:**

10 December 1990

Three years

The Council approved the Project at its Eighth Session in May 1990 and allocated funds for immediate implementation. A draft Agreement on the implementation of the Project was sent to the Ministry of Lands and Natural Resources, Ghana on June 5, 1990. The final text was agreed upon on November 15 and the Project became operational on December 10, 1990, when the Agreement was signed.

The first installment of funds was released in december 1990 and the first progress report covering the first period of field activity till mid May 1991 has been received by the Secretariat. During this period, the following activities were completed:

- \* Selection of two sites for flying nurseries.
- \* Development of guidelines for seed collection.
- \* Seed extraction, sowing and germination tests.

On-going activities include laboratory seed viability testing, asexual reproduction studies, stem cutting studies and air-layering studies. The Project Leader, Dr. Joe Cobbinah, also undertook Fullbright Fellowship Studies related to the Project in the United States in the latter half of 1991. he will return to Ghana in March 1992 for the next period of significant insect activity and field study.

- (11) PD 76/90 (F): Project Formulation Workshop for Establishing a Network of Genetic Resources Centres for Adapting to Sea Level Rise

**Budget and Funding Sources:**

|                                   |            |
|-----------------------------------|------------|
| Total Budget:                     | \$ 100,000 |
| Government of the United Kingdom: | \$ 50,000  |
| Government of Japan:              | \$ 50,000  |

**Implementing Agency:**

Centre for Research on Sustainable Agricultural and Rural Development,  
Madras, India

**Starting Date and Duration:**

August 1990

Six months

The Project was approved by the Council at its Eighth Session in May 1990 and funds were made available for its immediate implementation. The workshop was held in Madras on January 15 - 19, 1991, and a Project proposal [PD 157/91] that was developed by the workshop was presented for the consideration of the Eighth Session of the Permanent Committee in may 1991. A full proceedings of the workshop was also published and all accounts were presented to the Secretariat in December 1991. These will be analysed in the new year to allow the formal completion of the Project.

- (12) PD 84/90 (F)      The Establishment of A Demonstration Plot for Rehabilitation of Forests Affected by Fire in East Kalimantan [Phase II of PD 17/87 (F)]

**Budget and Funding Sources:**

|                                |            |
|--------------------------------|------------|
| Total Budget:                  | \$ 867,050 |
| Government of Indonesia:       | \$ 163,050 |
| Government of Japan:           | \$ 441,000 |
| Government of Switzerland:     | \$ 150,000 |
| Government of Norway:          | \$ 100,000 |
| Government of the Netherlands: | \$ 13,000  |

**Implementing Agency:**

The Agency for Forestry Research and Development, Ministry of Forestry,  
Indonesia

**Starting Date and Duration:**

February, 1991  
Two years

The Council approved the Project and made funds available for an immediate implementation at its Eighth Session in May 1990. An Agreement for the execution of the Project was concluded in February, 1991, and following receipt of advice on bank account numbers and the issuing of executing instructions to the Implementing Agency, the first disbursement of funds was made on November, 6 1991. Consultations on the selection of international technical staff were held with the ITTO Secretariat in November 1991.

- (13) PD 86/90 (F)      International Network for Developing Human Resources in Tropical Forest Management (Phase I)

**Budget and Funding Sources:**

|                        |            |
|------------------------|------------|
| Total Budget:          | \$ 500,000 |
| Government of Japan:   | \$ 400,000 |
| Government of Denmark: | \$ 100,000 |

**Implementing Agency:**

ITTO Secretariat

**Starting Date and Duration:**

December 1990  
Five years

The Council approved the Project at its Eighth Session in May 1990 and made funds available for immediate implementation. A research institution in each tropical region is to be assigned as coordinator of information collection and dissemination. However, a proposal for implementing the Project in the Asia/Pacific region was presented to the Permanent Committee at its Seventh Session in November 1990, in document PCF(VII)/9. This Proposal was approved and a limit of \$ 200,000 was set for its implementation.

An Agreement for executing the Project in the Asia/Pacific region has been concluded with ANUTECH. The first regional edition of the "ITTO Forest Management Update" newsletter was distributed by ANUTECH in April 1991 and since then two additional editions have been released with the fourth edition being planned for early January 1992. The newsletter now has a circulation list in excess of 15000 names and also offer a free literature search for subject areas related to tropical forest management, and this is being well patronized by its readers.

Other activities undertaken during the trail project have included:

- \* Development of a data base on forestry institutions and individuals in the Asia-Pacific Region.
- \* A study tour by the Project coordinator to Indonesia, Thailand and Malaysia to gather information about forestry research institutions and human resource issues.
- \* Development of contacts with other international development agencies to seek their involvement in the review and development of human resources in the forestry sector.
- \* Issuing questionnaires to senior foresters in the region to help determine forestry training requirements.
- \* Developing contacts with various IUFRO Working groups with interests in tropical forest management to obtain more information on current research projects, active researchers and available research outputs.
- \* Investigating the location of tropical forest inventory and yield plots in the three tropical regions with a view to developing an integrated data base for management planning.

At its Eighth Session, the Committee recommended the release of an additional \$ 100,000 from the overall Project budget to allow for a review workshop to explore future options for the network including its extension to Africa and Latin America. Due to budget limitations, the decision was taken to hold three separate regional workshops to determine regional training priorities, and to follow this with a synthesis workshop with two delegates from each of the regional workshops. The first regional workshop was held in Douala Cameroon from December 12-13 and the other workshops are planned for Santa Cruz Bolivia in January 1992 and Kuala Lumpur Malaysia in February, 1992.

Invitations and preworkshop questionnaires have been distributed to all member countries. The timing of the workshop will allow a detailed proposal to extend the network to the three producer regions to be presented to the Yaounde Session of the Committee. The Eleventh session of the Council also accepted the Committee's recommendation that a further \$68,000 be released from existing project funds to ensure continuity of project outputs including the ITTO Forest Management Update until June 1992.

(14) PD 89/90 (F) Sustainable Forest Management and Human Resources Development  
in Indonesia (Phase I)

**Budget and Funding Sources:**

|                          |              |
|--------------------------|--------------|
| Budget Total:            | \$ 4,250,000 |
| Government of Indonesia: | \$ 450,000   |
| Government of Japan:     | \$ 3,800,000 |

Implementing Agency:

Ministry of Forestry, Indonesia

Starting Date and Duration:

1 April 1991

Three years

The Project was approved by the Council at its Eighth Session in May 1990 and funds were made available for immediate implementation. An Agreement between ITTO and the Government of Indonesia regulating the implementation of the Project was concluded in February 1991, with the Projects resident Advisor being appointed from April, 1 1991. Some delays were experienced in establishing the infrastructure for the Project and in negotiating a Memorandum of Understanding between ITTO, USAID and the Ministry of Forestry as envisaged in the Project Agreement. However, the MOU was signed during the third week of September 1991.

Draft workplans for four activity areas have been prepared by the resident advisor and are currently being evaluated by the Ministry of Forestry before submission to the ITTO Secretariat for comment. These areas are:

- \* Pilot Demonstration on Sustainable Integrated Management of Natural Forest at Bukit Baka.
- \* Human Resources Development for Sustainable Management through Overseas Training.
- \* Human Resources Development for Sustainable Forest Management through In-Country Training.
- \* Human resources Training for Sustainable Forest Management through Workshops and Conferences.

Signing of the MOU formally allowed the constitution of a Project management group and the formulation of detailed workplans. This should allow considerable progress in implementing this project in the first half of 1992.

(15) PD 95/90 (F) Forest Management in the Alexander von Humboldt National Forest, Phase I, II, III

Budget and Funding Sources

|                      |              |
|----------------------|--------------|
| Total Budget:        | \$ 2,701,200 |
| Phase I Budget:      | \$ 506,000   |
| Phase II Budget:     | \$ 497,000   |
| Phase III Budget:    | \$ 497,000   |
| Government of Peru:  | \$ 1,201,200 |
| Government of Japan: | \$ 506,000   |
| To be determined:    | \$ 994,000   |

Implementing Agency:

Directorate General for Forestry and Wildlife, Ministry of Agriculture, Peru

Starting Date and Duration:

15 September, 1991  
One year

The Project was approved by the Council at its Ninth Session and funds were made available for implementing Phase I. A draft Agreement for the implementation of Phase I was sent to the Government of Peru, through the Embassy in Tokyo, on 20 December, 1990, and was signed on 15 September, 1991. It is expected that the project will become operational early in 1992.

(16) PD 97/90 Rev 1. (F): Multi Stage Survey of Tapajós National Forest

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 102,400 |
| Government of Japan: | \$ 102,400 |

Implementing Agency:

Fundação Pró-Natureza (FUNATURA)

Starting Date and Duration:

10 April 1991.  
Eight months

The Project was approved by the Council at its Ninth Session in November 1990 and funds were made available for immediate implementation. A draft Agreement for the implementation of the Project was sent to FUNATURA, through the Brazilian Embassy in Tokyo, on December 18, 1990. The project Agreement was signed on 4 April, 1991 and the first release of funds took place on 10 April. A detailed workplan was subsequently forwarded to the secretariat on 15 September, 1991. In the correspondence with this plan, it was noted that field work for the project had begun and that some revisions of the budget had proven necessary during the formulation of the workplan. However, no increase in the overall project budget were envisaged, and the changes to the original budget headings were relatively minor.

(17) PD 105/90 Rev. 1 (F) Model Forest Management Areas

Budget and Funding Sources:

|                              |              |
|------------------------------|--------------|
| Total Budget:                | \$ 2,019,344 |
| State Government of Sarawak: | \$ 259,168   |
| Government of Japan:         | \$ 1,660,176 |
| Government of Switzerland:   | \$ 100,000   |

Implementing Agency:

Forest Department, State Government of Sarawak, Malaysia

Starting Date and Duration:

13 November, 1992  
Two years

The Council approved the Project at its Ninth Session in November 1990 and made available financing for immediate implementation. A draft agreement regulating the implementation of the Project was sent to the State Government of Sarawak, through the Malaysian Embassy in Tokyo, on 18 December, 1990, and was signed on 13 November 1991. Work is expected to begin on the project in the near future and to this end the Secretariat has provided the implementing agency with a provisional list of possible consultants for the various international technical positions associated with the project.

- (18) PD 106/90 Rev. 1 (F)      Development of the Lanjak-Entimau Wildlife Sanctuary as a Totally Protected Area, Phase I

**Budget and Funding Sources:**

|                              |              |
|------------------------------|--------------|
| Total Budget:                | \$ 1,985,141 |
| State Government of Sarawak: | \$ 234,304   |
| Government of Japan:         | \$ 1,450,837 |
| Government of Denmark:       | \$ 200,000   |
| Government of Switzerland:   | \$ 100,000   |

**Implementing Agency:**

Forest Department, State Government of Sarawak, Malaysia

**Starting Date and Duration:**

13 November, 1991  
Two years

The Project was approved by the Council at its Ninth Session in November 1990 and funds were made available for immediate implementation. A draft Agreement for the implementation of the Project was sent to the State Government of Sarawak, through the Malaysian Embassy in Tokyo, on 18 December, 1990. The Agreement was signed on 13 November, 1991 and work on the Project is expected to begin in the near future. To this end the secretariat has provided the implementing agency with a provisional list of possible consultants for the various international technical positions associated with the project.

- (19) PD 115/90 Rev.1 (F)      Rehabilitation of Natural Forests

**Budget and Funding Sources:**

|                         |            |
|-------------------------|------------|
| Total Budget:           | \$ 887,879 |
| Government of Malaysia: | \$ 337,082 |
| Government of Japan:    | \$ 550,797 |

**Implementing Agency:**

Forest Department, Peninsular Malaysia.

**Starting Date and Duration:**

13 November, 1991  
Four years

The Project was approved by the Council at its Ninth Session in November 1990 and full financing was allocated to enable immediate implementation. A draft Agreement for the implementation of the Project was sent to the Government of Malaysia, through the Malaysian Embassy in Tokyo, on 18 December, 1990. The Agreement was signed on 13 November 1991 and work on the Project is expected to begin in the near future.

(20) PD 116/90 (F)                      Appropriate Forest Technologies

**Budget and Funding Sources:**

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 655,000 |
| Government of Japan: | \$ 318,000 |
| The World Bank:      | \$ 337,000 |

**Implementing Agency:**

Asia Region Technical Department of The World Bank

**Starting Date and Duration:**

27 August, 1991  
One year

The Project, which was submitted by the Government of Japan in cooperation with the World Bank, was approved by the Council at its Ninth Session in November 1990 and financing for immediate implementation was made available. Negotiations on the terms of reference for the agreement for the implementation of the Project were concluded on 26 February 1991 and the Project came into operation after the signing of the Agreement on 27 August, 1991. A brief progress report was received by the Secretariat on November 21, 1991. The Project proposal envisaged three areas of activity and progress in these three areas was as follows:

1. A Study on the Design of an Information Network: A data base of some 5000 forestry related institutions worldwide has been developed and includes information on institutional structures, main activities or research programmes, consultant resources and innovative technologies or management systems. An interface system is being prepared and testing the utility of the system for users is envisaged.
2. Preparing a State-of-the-Art paper on the establishment and management of plantations: Papers currently being prepared in a number of topic areas will be both published as technical bulletins to ensure wide dissemination and synthesized into a comprehensive paper on plantation establishment.
3. Preparation of a research paper on Sustainable Management of Tropical Moist Forest: Six papers are currently in preparation covering the biological, economical, technical, sociological and ecological aspects of natural forest management. A workshop to discuss the papers will be held in February 1992, The papers will subsequently be synthesized into a comprehensive paper which will be published as a World Bank ITTO book by mid-1992.



(21) PD 117/90 (M,F,D) Conference of Senior Foresters

Budget and Funding Sources:

|                           |            |
|---------------------------|------------|
| Total Budget:             | \$ 400,000 |
| Government of Japan:      | \$ 200,000 |
| Forestry Agency of Japan: | \$ 200,000 |

Implementing Agency:

ITTO Secretariat and the Forestry Agency of Japan.

Starting Date and Duration:

December 1990  
1 year

The objective of this project was to promote the adoption and application of sustainable management as stated in the ITTO Guidelines on the Sustainable Management of Natural Tropical Forests which were approved at the Seventh Session of the Council. The Project was approved by the Ninth Session of the Council to provide forum for senior foresters and related experts with field experience in tropical forests to discuss how to implement ITTO Guidelines in a manner best suited to regional and local conditions.

The conference was held in Yokohama from July 23-26 under the joint sponsorship of ITTO and the Forestry Agency of Japan. The major focus of the Conference was to identify actions that could be taken immediately to promote sustainable management of tropical forests as state in the various ITTO guidelines on sustainability.

The Conference attracted a total of 178 participants and observers. Some 99 foresters and related experts from some 40 countries outside Japan and 12 International Organizations and NGO's attended, including 25 participants from the Producer members of ITTO who were fully sponsored by the Project. In addition, 79 Japanese foresters and related experts from some 29 organizations participated in the Conference. The Conference concluded with an 8 point declaration and a 10 point action plan that the participants committed themselves to implementing through their various agencies and professional associations. A summary report of the Conference findings was printed and distributed at the World Forest Congress in September while the full proceedings are expected to be published in the first half of 1992.

(22) PD 157/Rev.2 (F) Establishment of an International  
Network for the Conservation and  
Sustainable Utilization of Mangrove  
Genetic Resources.

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 500,000 |
| Government of Japan: | \$ 500,000 |

Implementing Agency

Center for Research on Sustainable Agricultural and Rural Development, Madras, India.

**Starting Date and Duration:**

10 September, 1991

One year

The project was approved by the Tenth Session of the Council. \$500,000 was allocated for its immediate implementation subject to the release of funds being conditional on the Secretariat receiving a detailed workplan for the conduct of the Project. The workplan was presented to the Secretariat on June 25th, and following comments from the secretariat a revised plan was forwarded on 8 July, 1991. The project agreement was signed on 10 September, 1991 and the first Project Steering Committee was held in Madras from 8-10 October, and was attended by the Assistant Director. The project is now fully operational with nomination forms being distributed to various countries for both the genetic conservation centers and the training programmes in mangrove management and conservation.

- (23) PD 164/91 Rev.1 (F) Native Species Reforestation as an  
Alternative for Conserving the  
Panama Canal Watershed.

**Budget and Funding Sources:**

|                                  |            |
|----------------------------------|------------|
| Total Budget:                    | \$ 140,000 |
| Government of the United States: | \$ 140,000 |

**Implementing Agency:**

Asociación Nacional para la Conservación de la Naturaleza - ANCON

**Starting Date and Duration:**

30 October, 1991

One year

The Project was approved by the Council at its Tenth Session and \$140,000 was allocated for its immediate implementation with the release of funds being conditional on the receipt of a detailed workplan that met the requirements of the Secretariat. A detailed workplan was received by the Secretariat and a Project Agreement was signed on 30 October, 1991. The Project became operational with the first release of funds on 15 November, 1991.

**3.2.4 Projects under Preparation for Implementation****3.2.4.1 Projects with Allocated Finance**

Eighteen projects in the field of Reforestation and Forest Management, which have been approved by the Council and for which financing is available, had still not become operational at the end of 1991. The total finance commitment for these projects is \$9,920,136.

- (1) PD 15/87 (F) The Biology of the Okoume (*Aucoumea klaineana* Pierre) in Gabon

**Budget and Funding Sources:**

|                                |            |
|--------------------------------|------------|
| Total Budget:                  | \$ 845,000 |
| Government of Gabon:           | \$ 427,500 |
| Government of the Netherlands: | \$ 417,500 |

Implementing Agency:

TROPENBOS in partnership with la Direction du Reboisement and CENAREST

Starting Date and Duration:

To be determined  
Three years

The Project was approved for immediate implementation by the Council at its Third Session in November 1987. The execution of this Project requires that a Memorandum of Understanding between the Governments of the Netherlands and Gabon is formulated and approved by both Governments. This Memorandum is still under negotiation between the two governments, and at the time of the Ninth Session of the Committee, the Project had not commenced. The Committee noted that under paragraph 2 of Annex 2 of Decision 2 (X), this Project is an approved project that had not begun to be implemented more than 26 months after approval. Under the terms of that decision, the Project could therefore no longer be considered an approved project. However, the Committee also noted that the ITTO Secretariat received a revised Project proposal on 25 November 1991, and decided to ask the Secretariat to both examine this revised proposal in relation to the original project objectives, related activities and the continued availability of donor funds, and to take all steps necessary to ensure the immediate implementation of the Project. It is now hoped that the Project will become operational early in 1992.

- (2) PD 68/89 Rev.1 (F) Management of Tapajós National Forest for Sustainable Production of Industrial Timber

Budget and Funding Sources:

|  |               |
|--|---------------|
| Total Budget:                              | \$ 3,037,946* |
| Government of the United Kingdom:          | \$ 1,513,146  |
| IBAMA:                                     | \$ 1,524,800  |
| * including contributions in kind by IBAMA |               |

Implementing Agency:

Brazilian Institute for the Environment and Renewable Natural Resources (IBAMA)

Starting Date and Duration:

To be determined  
Five years

The Council approved the Project at its Seventh Session in November 1989. Financing was at that time not made available, but the Council authorized the Executive Director to start implementation of the Project as soon as financing was secured through earmarked contributions to the Special Account.

The Government of the United Kingdom provided full financing for the Project through an earmarked contribution to the Special Account in February, 1990. Delays were experienced in drafting a Project Agreement mutually acceptable to both the donor and the Government of Brazil. However, following discussions with all parties during the Tenth Session of the Council in Quito, and following further drafting and negotiation during the Eleventh Session in Yokohama, it was expected that the agreement would be signed and that the project would become operational early in 1992.

- (3) PD 77/90 (F) Establishment of A Pilot Area for Silviculture in Closed Forests in Congo

Budget and Funding Sources:

|                          |            |
|--------------------------|------------|
| Total Budget:            | \$ 642,000 |
| Government of the Congo: | \$ 113,000 |
| Government of Japan:     | \$ 529,000 |

Implementing Agency:

Centre Pilote d'Afforestation en Limba (CPAL)

Starting Date and Duration:

To be determined  
Five years

The Project was approved by the Council at its Eighth Session in May 1990, but financing was not made available at that time. The Council allocated full funding at its Ninth Session in November 1990. A draft Agreement for the implementation of the Project was sent to the Ministry of Forest Economics, Congo on 28 December, 1990. Further negotiations between the Secretariat and the implementing agency occurred during the latter part of 1991 and it is expected that the Project Agreement would be signed early in 1992.

- (4) PD 88/90 (F) Sustainable Selective Harvesting of Mahogany in Bolivia

Budget and Funding Sources:

|                                  |            |
|----------------------------------|------------|
| Total Budget:                    | \$ 114,000 |
| Government of the United States: | \$ 114,000 |

Implementing Agency:

Government of Bolivia

Starting Date and Duration:

June 1990  
Three Years

The Project was approved by the Council at its Eighth Session but funding was not made available at that time. The Council authorized the Executive Director to start implementation as soon as earmarked funds covering the total ITTO contribution are available in the Special Account. However, the government of Bolivia received partial funding for the Project from the National Science Foundation in the United States through its cooperating agency Princeton University. The Government of Bolivia therefore presented a revised budget of \$114,000 as compared to the original budget requirement of \$348,914 in the original proposal. This change to the Project was approved by the Council and funds for its support were pledged during the Twelfth Session, and it is hoped that Agreements for the new project arrangements will be finalized early in 1992.

- (5) PD 99/90 Rev. 1 (F) Establishment of Rio Preto's National Forest

Budget and Funding Sources:

|                      |              |
|----------------------|--------------|
| Total Budget:        | \$ 1,393,000 |
| IBAMA:               | \$ 924,000   |
| Government of Japan: | \$ 469,000   |

Implementing Agency:

Brazilian Institute for Environment and Renewable Natural Resources (IBAMA)

Starting Date and Duration:

To be determined  
Five years

The Council approved the Project at its Ninth Session and made funds available for immediate implementation. Draft Agreement was sent to the Government of Brazil, through the Embassy in Tokyo, on 18 December, 1990, and signed on 4 April 1991. Some delays in facilitating the first release of funds have occurred but it is anticipated that the project will be operational early in 1992.

- (6) PD 103/90 Rev. 1 (F) Training and Manpower Development in Community Forestry Management

Budget and Funding Sources:

|                      |              |
|----------------------|--------------|
| Total Budget:        | \$ 1,203,000 |
| Government of Japan: | \$ 1,203,000 |

Implementing Agency:

The Institute of Forestry, Tribhuvan University, Nepal

Starting Date and Duration:

To be determined  
Four years

The Council approved the Project at its Ninth Session and made available funds for immediate implementation. A draft Agreement for the implementation of the Project was sent to the Ministry of Forests and Soil Conservation, Government of Nepal on December 20, 1990. There have been a number of delays in signing the Project Agreement due to disruptions associated with the elections and other political changes. However, a telex was received on 19 November, 1991 indicating that the text of the Agreement was satisfactory to authorities in Nepal and it is hoped that the Project will become operational early in 1992.

- (7) PD 104/90 Rev. 2 (F) Studies of the Management Standards of Hill Dipterocarp Forest in Sarawak from a Watershed Management Point of View

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 412,000 |
| Government of Japan: | \$ 412,900 |

Implementing Agency:

Forest Department, State Government of Sarawak, Malaysia.

Starting Date and Duration:

To be determined  
Two years

The Project was approved by the Council at its Ninth Session and funds were made available for immediate implementation. An Agreement for the implementation of the Project was drafted and submitted to the original implementing agency, the Forestry Agency of Japan, for consideration. However, following representation from the Japanese delegates to the Eighth Committee Session in Quito, to the Forests Department of the State of Sarawak, and a new Project Agreement now has to be negotiated.

- (8) PD 114/90 (F) Workshop on Conservation and Sustainable Utilization of Mangrove Forests in the Latin American Regions

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 480,000 |
| Government of Japan: | \$ 480,000 |

Implementing Agency:

The International Society for Mangrove Ecosystems (ISME)

Starting Date and Duration:

To be determined  
20 months

The project was approved by the Council at its Ninth Session in November, 1990. Financing was not allocated at that time, but the Executive Director was authorized to start implementation as soon as earmarked funds for the total ITTO contribution became available in the Special Account. Funding was secured during the tenth Session of the Council at Quito and it is expected that the Project Agreement with the Implementing Agency will be finalized soon and that the project will become operational early in 1992.

- (9) PD 119/91 Rev.1 (F) Workshop on Women and Forestry - A Look at African Experiences.

Budget and Funding Sources:

|                                  |            |
|----------------------------------|------------|
| Total Budget:                    | \$ 255,000 |
| Government of Ghana:             | \$ 33,400  |
| Government of Japan:             | \$ 171,600 |
| Government of the United States: | \$ 50,000  |

Implementing Agency:

Forestry Department of Ghana and the 31st December Movement.

Starting Date and Duration:

To be determined  
Nine months

The Project was approved by the Council at its Tenth Session in Quito and \$221,000 was allocated for its immediate implementation. A draft Project Agreement was forwarded to the government of Ghana on 1 October, 1991 and it is expected that the workshop will be held toward the middle of 1992.

- (10) PD 128/91 Rev.2 (F) Management, Conservation and Development of Mangrove Forests in Panama

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 489,000 |
| Government of Japan: | \$ 489,000 |

Implementing Agency:

The Institute for Renewable Natural Resources, Forestry Development Directorate in cooperation with the National Water Resources Board, Ministry of Agricultural Development, Panama.

Starting Date and Duration:

To be determined  
Five years

The Project was approved by the Council at its Tenth Session and \$480,000 was allocated for its immediate implementation subject to the implementing agency submitting a detailed workplan to the Secretariat and increasing the provision for ITTO evaluation and monitoring. A detailed workplan was received by the Secretariat in late July and a draft Project Agreement was forwarded to the Government of Panama on 30 September, 1991. It is hoped that this agreement will be finalized in the near future and that the Project will become operational in the first half of 1992.

- (11) PD 130/91 Rev.2 Plantation Establishment Methods (First Phase)

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 780,000 |
| Government of Japan: | \$ 780,000 |

Implementing Agency:

To be determined

Starting date and Duration:

To be determined  
Three years

The Project was presented by the Government of Japan and was approved by the Council at its Tenth Session with an addendum allowing for the synthesis of existing research information at the beginning of the Project. \$ 790,000 was allocated for its immediate implementation and negotiations have begun with possible implementing agencies. It is hoped that the project can become operational in the first half of 1992.

- (I2) PD 131/91 Rev.2 (F) Pilot Project for the Sustained Management  
of the So'olala Forest

**Budget and Funding Sources:**

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 534,000 |
| Government of Japan: | \$ 534,000 |

**Implementing Agency:**

Office National de Développement des Forêts (ONADEF)

**Starting Date and Duration:**

January 1992  
Five years

The Council approved the Project at its Tenth Session and allocated \$ 534,000 for its immediate implementation. The release of funds was, however, made subject to the Secretariat receiving a detailed workplan for the implementation of the project which amongst other things was to include provisions for a Consultative Committee structure to allow for liaison between the project management and the people living in and near the project area. A workplan was submitted to the Secretariat and the Project Agreement was signed on 19 November, 1991. The first funds were released on 18 December, 1991 and it is expected that the Project will become operational early in 1992.

- (13) PD 132/91 Rev.1 (F) Training Forestry Workers in Carrying Out Certain Tasks  
Related to Forestry

**Budget and Funding Sources:**

|                         |            |
|-------------------------|------------|
| Total Budget:           | \$ 281,000 |
| Government of Cameroon: | \$ 120,000 |
| Government of Japan:    | \$ 161,000 |

**Implementing Agency:**

Office National de Développement des Forêts (ONADEF)

**Starting Date and Duration:**

January, 1992  
Two years

The Council approved the Project at its Tenth Session and allocated \$161,000 for its immediate implementation. The release of funds was, however, made subject to the Secretariat receiving a detailed workplan for the implementation of the project. A workplan was submitted to the Secretariat and the Project Agreement was signed on 2 December, 1991. The first funds were released on 18 December, 1991 and it is expected that the Project will become operational early in 1992.



- (14) PD 138/91 Rev.2 (F) Program for Sustainable Forest Management in the Ecuador Forest Institute

Budget and Funding Sources:

|                        |            |
|------------------------|------------|
| Total Budget:          | \$ 325,635 |
| Government of Ecuador: | \$ 19,195  |
| Government of Japan:   | \$ 306,440 |

Implementing Agency:

Sub-secretariat for Forestry and Renewable Natural Resources, Ministry of Agriculture and Livestock, Government of Ecuador.

The Second revision of this Project was approved by the Tenth Session of the Council and \$ 306,440 allocated for its implementation. A draft Project Agreement was forwarded to the Government of Ecuador and signed on 16 December, 1992. It is expected that the project will become operational early in 1992.

- (15) PD 148/91 Rev.3. (M,F,I) Seminar on Economic Case for Sustainable Tropical Forest Management

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 115,000 |
| Government of Japan: | \$ 115,000 |

Implementing Agency:

ITTO Secretariat

Starting Date and Duration:

November, 1991  
Two months

This Project was approved by the Council at its tenth Session and \$ 115,000 was allocated for its implementation in conjunction with the Eleventh Session of the Council. However, with the heavy time demands on the Secretariat with the Conference of Senior Foresters [see PD 117/90 (M,F,I), Project review missions and servicing Working groups and expert Panels, it was not possible to organize the proposed seminar in time for the Eleventh Session. The Committee therefore recommended that the Council should request the Secretariat to organize a seminar for the forthcoming Twelfth Session of the Council in Yaounde in consultation with delegates from African member countries. It was also suggested that the theme for the Seminar could be changed to focus on land-use planning and land tenure to secure the permanent Forest Estate.

- (16) PD 149/91 Rev.3 (F) Technical Workshop to Explore Options for Global Forest Management

Budget and Funding Sources:

|                         |            |
|-------------------------|------------|
| Total Budget:           | \$ 250,000 |
| Government of Japan:    | \$ 100,000 |
| Asian Development Bank: | \$ 100,000 |

**Implementing Agency:**

Department of Environment and Natural Resources of the Government  
of the Philippines - DENR.

**Starting Date and Duration:**

February 1992  
Two months

The Project was proposed by the Government of Japan and approved by the Council at its Tenth Session. The Council allocated a maximum of \$ 100,000 subject to the project achieving co-financing by other international organizations. Notification of co-financing for an additional \$ 100,000 was received from the Asian Development Bank on 27 November, 1991 and a Preparatory Committee meeting comprised of interested delegates to the Eleventh Session of the Council was held in Yokohama on 1 December, 1991. A target date of late February was selected to allow the Workshop to have input into the UNCED process and the Committee recommended approval be given for both a reduced workshop budget of \$ 200,000, and for the implementing agency to accept additional financial contributions from sources other than international organizations to increase the sponsored participation of participants from developing countries.

- (17) PD 156/91 Rev.2 (F)      Establishment of Two Model Forest Nurseries and Forest  
Management Project

**Budget and Funding Sources:**

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 211,636 |
| Government of Japan: | \$ 211,636 |

**Implementing Agency:**

Forest and timber Sector Development Corporation of Ecuador -  
CORMADERA

**Starting Date and Duration:**

January 1992  
Two years

The Project was approved by the Council at its Tenth Session and \$ 211,636 was allocated for its implementation including \$ 200,000 for ITTO monitoring and evaluation. This approval was subject to the condition that no funds should be released until a detailed workplan for both nursery establishment and research was submitted to the Secretariat, including provisions for liaison between Project management and the people living in or near the Project area. The workplan was also to provide information on the provenance of materials used for nursery propagation and the criteria used for its selection. A draft Project Agreement was forwarded to the Government of Ecuador on 1 October, 1991 and it is hoped that the Project will become operational early in 1992.

- (18) PD 162/91 Rev.1 (F) Intensification of Growth and Yield Studies in  
Previously Logged Forests

Budget and Funding Sources:

|   |              |
|---|--------------|
| Total Budget:   | \$ 1,723,000 |
| Government of the Independent State<br>of Papua New Guinea: | \$ 95,000    |
| Government of Japan:  | \$ 1,328,000 |
| Government of Switzerland:                                  | \$ 200,000   |
| Government of the United States:                            | \$ 100,000   |

Implementing Agency:

Forest Research Institute, Lae, PNG

Starting Date and Duration:

To be determined  
Five years.

The Project was approved by the Tenth Session of the Council and \$ 1,628,000 was allocated for its implementation under the condition that no funds be released until a detailed workplan was submitted to the secretariat. A draft Project Agreement was sent to the Government of the Independent State of Papua New Guinea on 1 October, 1991 and it is hoped that the project will become operational early in 1992.

- (19) PD 170/91 Rev.1 (F) Modernization and Development of Egyptian  
Forest Nurseries

Budget and Funding Sources:

|  |             |
|--|-------------|
| Total Budget:  | \$ 573,855  |
| Government of the Arab Republic<br>of Egypt:   | \$ 275,855* |
| Government of Japan:   | \$ 298,000  |
| * total budget includes national in-kind contribution of E£918,000<br>(\$1 + E£3.33) |             |

Implementing Agency:

Ministry of Agriculture and Land Reclamation, Arab Republic of Egypt

Starting Date and Duration:

To be determined  
One year

This Project was approved by the Eleventh Session of the Council and \$ 298,000 was made available for its implementation subject to the Secretariat receiving a detailed workplan for the Project's implementation. It is anticipated that Project Agreements will be finalized early in 1992.

- (20) PD 176/91 Rev.1 (F) Sustained Management for Production, Conservation, Demonstration, Diffusion and promotion Activities In Moist Tropical Forests in Ecuador's Northwest

Budget and Funding Sources:

|   |                |
|---|----------------|
| Total Budget:                           | \$ 1,007,600   |
| Government of Japan:                    | to be advised* |
| Government of the United States:        | \$ 298,000     |
| Juan Manuel Durini Forestry Foundation: | \$ 292,930     |

\* The Government of Japan indicated it would fund the remainder of this project but called on other donors to contribute.

Implementing Agency:

Juan Manuel Durini Forestry Foundation, NGO's, Industrial Enterprises and the Government Forest Service.

Starting Date and Duration:

To be determined  
Three years

This Project was approved by the Eleventh Session of the Council and \$ 298,000 was made available for its implementation subject to the Secretariat receiving a detailed workplan for the Project's implementation. It is anticipated that Project Agreements will be finalized early in 1992.

- (21) PD 184/91 Rev.1 (F) Multipurpose Tree Planting in Egypt

Budget and Funding Sources:

|   |             |
|---|-------------|
| Total Budget:                             | \$ 614,819  |
| Government of the Arab Republic of Egypt: | \$ 119,819* |
| Government of Japan:                      | \$ 495,000  |

\* total budget includes national in-kind contribution of E£399,000 (\$1 + E£3.33)

Implementing Agency:

Ministry of Agriculture and Land Reclamation, Arab Republic of Egypt

Starting Date and Duration:

To be determined  
Two years

This Project was approved by the Eleventh Session of the Council and \$ 495,000 was made available for its implementation subject to the Secretariat receiving a detailed workplan for the Project's implementation. It is anticipated that Project Agreements will be finalized early in 1992.

(22) PD 188/91 Rev.1 (F) Reforestation of Rioja

Budget and Funding Sources:

|                         |            |
|-------------------------|------------|
| Total Budget:           | \$ 250,000 |
| Government of Peru:     | \$ 35,000  |
| Ito Yokado Corporation: | \$ 215,000 |

Implementing Agency:

National Forestry Action Programme (NFAP), Municipality of the Province of Rioja, Rural Development Centre in Rioja and the Ministry of Agriculture of the Government of Peru.

Starting Date and Duration:

To be determined  
Two years

This Project was approved by the Eleventh Session of the Council and \$ 215,000 was made available for its implementation subject to the Secretariat receiving a detailed workplan for the Project's implementation. It is anticipated that Project Agreements will be finalized early in 1992.

(23) PD 189/91 Rev. 1 (M,F,I) Publication of an Andean Forestry Journal

Budget and Funding Sources:

|                          |            |
|--------------------------|------------|
| Total Budget:            | \$ 162,000 |
| Participating Countries: | \$ 44,000  |
| Government of Japan:     | \$ 118,000 |

Implementing Agency:

Fundacion Andina Bosques y Desarrollo.

Starting Date and Duration:

To be determined  
Eighteen months

This Project was approved by the Eleventh Session of the Council and \$ 118,000 was made available for its implementation. It is anticipated that Project Agreements will be finalized early in 1992.

(24) PD 202/91 Rev.1 (F) Sustainable Forest Management Through Collaborative Efforts

Budget and Funding Sources:

|   |              |
|---|--------------|
| Total Budget:   | \$ 1,324,194 |
| Government of Thailand:   | \$ 334,194   |
| Government of the Netherlands:  | \$ 990,000*  |
| * the contribution of the Government of the Netherlands is subject to it being satisfied with some aspects of the detailed workplan |              |

**Implementing Agency:**

The Society for the Conservation of National Treasures and Environment (SCONTE) and the Royal Forest Department of Thailand.

**Starting Date and Duration:**

To be determined  
Three years

This Project was approved by the Eleventh Session of the Council and \$ 990,000 was made available for its implementation subject to the Secretariat receiving a detailed workplan for the Project's implementation. It is anticipated that Project Agreements will be finalized early in 1992.

**3.2.4.2 Projects Awaiting Financing**

The Council has approved twenty Projects for which full financing was still not available at the end of 1991. A total of \$ 27,280,317 is required for implementation of these Projects. Financing pledged by Member Countries for this purpose amounted to \$ 1,150,000 at the end of 1991.

- |     |              |   |
|-----|--------------|---|
| (1) | PD 55/89 (F) | Research and Development Activities in the Framework of Forest Management Operations in Côte d'Ivoire's Closed Forests: Establishment of a Typological Classification of Forests on the Basis of Silvicultural Operations |
|-----|--------------|---|

**Budget and Funding Sources:**

Total Budget:      \$ 2,092,000 + contribution in kind by  
the Government of Côte d'Ivoire

**Implementing Agency:**

SODEFOR/C.T.F.T.

**Starting Date and Duration:**

To be determined  
Five years

The Project was approved by the Council at its Sixth Session in May 1989. Funds for Project implementation were not allocated at that time, but the Council authorized financing and implementation of the Project as soon as unearmarked funds are available. Unearmarked funds for full financing of the project have still not become available in the Special Account at the end of 1990. However, since the Project been not fully funded for more than 20 months after approval, it ceases to be considered an approved project under the terms of paragraph 2 of Annex 2 of Decision 2(X) of the ITTC.

- (2) PD 81/90 (F) Investigation and Application of Forest Management Systems in Tropical and Sub-tropical Rain Forests in the Choré and Bajo Paragua Forest Production Reserves

**Budget and Funding Sources:**

|                        |              |
|------------------------|--------------|
| Total Budget:          | \$ 2,890,000 |
| Government of Bolivia: | \$ 600,000   |
| To be determined:      | \$ 2,290,000 |

**Implementing Agency:**

Universidad Autonoma Gabriel René Moreno

**Starting Date and Duration:**

To be determined  
Five years

The Project was approved by the Council at its Eighth Session in May 1990, but funds for its implementation were not made available at that time. The Council authorized the Executive Director to start implementation of the Project as soon as earmarked funds covering the total ITTO contribution are available in the Special Account. Such funds have still not become available.

A revised Project Document that took account the comments made by the Committee at its Sixth Session was submitted for the consideration of the Council as PD 81/90 Rev.1. This revised proposal only covered the Chore Forest area while a companion project Proposal [PD 175/91 (F)] that covered the Bajo Paragua Forest Area was also submitted by the Government of Bolivia for the consideration of the Council. The revised proposal for PD 81/90 (F) was reviewed by the Panel for the Technical Appraisal of Project proposal and a number of concerns re the relative priority given to research and action to achieve operational sustainable management were raised. The Committee therefore noted the advice of the delegates from the Government of Bolivia that the Project proposal would be further revised for consideration at the Tenth Session of the Committee in May 1992.

- (3) PD 83/90 (F,I) Research and Development in Logging

**Budget and Funding Sources:**

|                        |              |
|------------------------|--------------|
| Total Budget:          | \$ 2,450,000 |
| Government of Denmark: | \$ 200,000   |
| Government of Sweden:  | \$ 650,000   |
| To be determined:      | \$ 1,600,000 |

**Implementing Agency:**

To be determined

**Starting Date and Duration:**

To be determined  
Three years

The Project was approved by the Council at its Eighth Session in May 1990, but full financing was not made available at that time. The Council authorized the Executive Director to start implementing the Project as soon as full financing in the form of earmarked funds is available in the Special Account. Full financing has still not become available. However, the Committee has urged the Executive Director to:

- (a) Consult with possible host countries on the basis of existing agreements with a view to reaching an agreement on financing and implementing the Project.
- (b) Establish an Advisory Committee for the project consisting of the host country, other interested countries in the region of concern to ITTO, a NGO representative, the logging industry and donors.

The Committee also recommended that the Secretariat investigate the feasibility of implementing clearly defined sub-projects within the limits of currently available funds and report on this matter to the Tenth Session of the Committee in May 1992.

- (4) PD 85/90 (F) Technical Assistance for the Master Plan for Forest Plantations

Budget and Funding Sources:

|                          |               |
|--------------------------|---------------|
| Total Budget:            | \$ 1,904,839  |
| Government of Indonesia: | \$ 599,097    |
| To be determined:        | \$ 1,305,724. |

Implementing Agency:

Directorate General of Reforestation and Land Rehabilitation, Ministry of Forestry,  
Indonesia

Starting Date and Duration:

To be determined  
Four years

The Project was approved by the Council at its Eighth Session but funding was not made available at that time. The Council has authorized the Executive Director to start implementation as soon as earmarked funds covering ITTO's contribution are available in the Special Account. Full funding has still not been secured.

- (5) PD 98/90 Rev. 1 (F) Establishment of Tefé's National Forest

Budget and Funding Sources:

|                   |              |
|-------------------|--------------|
| Total Budget:     | \$ 2,346,000 |
| IBAMA:            | \$ 1,124,000 |
| To be determined: | \$ 1,222,000 |

Implementing Agency:

Brazilian Institute for Environment and Renewable Natural Resources (IBAMA)



Starting Date and Duration:

To be determined  
Five years

The Project was approved by the Council at its Ninth Session and the Executive Director was authorized to start implementation as soon as full funding, in the form of earmarked contributions, are available. Full funding has still not been secured.

(6) PD 100/90 Rev.1 (F) Establishment of Ibirama's National Forest

Budget and Funding Sources:

|                   |              |
|-------------------|--------------|
| Total Budget:     | \$ 1,055,000 |
| IBAMA:            | \$ 604,000   |
| To be determined: | \$ 451,000   |

Implementing Agency:

Brazilian Institute for Environment and Renewable Natural Resources (IBAMA)

Starting Date and Duration:

To be determined  
Five years

The Project was approved by the Council at its Ninth Session in November 1990. Financing was not allocated at that time, but the Executive Director was authorized to start implementation as soon as earmarked funds for ITTO's total contribution become available. Full funding has still not been secured.

(7) PD 101/90 Rev.1 (F) Case Studies for Sustainable Forest Management

Budget and Funding Sources:

|                      |            |
|----------------------|------------|
| Total Budget:        | \$ 360,000 |
| Government of Japan: | \$ 300,000 |

Implementing Agency:

Ministry of Forestry, Indonesia and JOFCA, Japan

Starting Date and Duration:

To be determined  
Two years

The Project was approved by the Ninth Session of the Council. Funds for Project implementation were not allocated at that time, but the Executive Director was authorized to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full funding has still not been secured, though the Government of Japan did commit an amount of \$ 300,000 at the Tenth Session of the Council. It is understood that this was done on the understanding that the remaining \$ 60,000 would be provided by the Government of Indonesia. Clarification is currently being sought on the remaining financing of this project and it is hoped that the Project will become operational early in 1992.

/...

- (8) PD 110/90 Rev.1 (F) Forest Increment and Yield Studies for Sustainable Management -  
Phases I and II

Budget and Funding Sources:

|                              |            |
|------------------------------|------------|
| Total Budget Phase I:        | \$ 442,000 |
| State Government of Sarawak: | \$ 53,000  |
| To be determined:            | \$ 389,000 |

|                              |              |
|------------------------------|--------------|
| Total Budget Phase II:       | \$ 1,308,500 |
| State Government of Sarawak: | \$ 150,000   |
| To be determined:            | \$ 1,158,500 |

Implementing Agency:

Forest Department, Sarawak, Malaysia

Starting Date and Duration:

To be determined  
Phase I: Two years  
Phase II: Three years

The Council approved the Project at its Ninth Session. Financing was not made available, but the Executive Director was authorized to start implementation as soon as earmarked funds become available for the total ITTO contribution. Full financing has still not been secured.

- (9) PD 111/90 Rev.1 (F) Assessment of the Biological Potential for Timber Growth; Increment  
and Yield in the Forests in the State of Sarawak

Budget and Funding Sources:

|                             |            |
|-----------------------------|------------|
| Total Budget:               | \$ 975,000 |
| Sate Government of Sarawak: | \$ 150,000 |
| To be determined:           | \$ 825,000 |

Implementing Agency:

Forest Department, Sarawak, Malaysia

Starting Date and Duration:

To be determined  
Two years

The Council approved the Project at its Ninth Session in November 1990. Funds were not allocated to the Project at that time, but the Executive Director was authorized to start implementation as soon as earmarked funds become available for the total ITTO contribution. Full financing has still not been secured.

- (10) PD 112/90 Rev.1 (F) System Analysis, Modelling and Hierarchic Geographical Information System (GIS) for Research, Management and Development in Sarawak

**Budget and Funding Sources:**

|                              |              |
|------------------------------|--------------|
| Total Budget:                | \$ 3,055,000 |
| State Government of Sarawak: | \$ 200,000   |
| To be determined:            | \$ 2,855,000 |

**Implementing Agency:**

Forest Department, Sarawak, Malaysia

**Starting Date and Duration:**

To be determined  
Three years

The Project was approved by the Council at its Ninth Session in November 1990. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

- (11) PD 139/91 (F) Management Plan for the Sustained Production of Orey Forests in the Bocas Del Toro Province

**Budget and Funding Sources:**

|                       |            |
|-----------------------|------------|
| Total Budget:         | \$ 620,000 |
| Government of Panama: | \$ 111,000 |
| To be determined:     | \$ 509,000 |

**Implementing Agency:**

The Institute for Renewable Natural Resources - INRENARE.

**Starting Date and Duration:**

To be determined  
Two years

The Project was approved by the Council at its Tenth Session in June, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

(12) PD 140/91 (F) Management Plan for the Cativo Forests of Darien

Budget and Funding Sources:

|                       |            |
|-----------------------|------------|
| Total Budget:         | \$ 578,000 |
| Government of Panama: | \$ 175,000 |
| To be determined:     | \$ 403,000 |

Implementing Agency:

The Institute for Renewable Natural Resources - INRENARE.

Starting Date and Duration:

To be determined  
Two years

The Project was approved by the Council at its Tenth Session in June, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

(13) PD 147/91 (F) "El Telegrafo" Reforestation Project

Budget and Funding Sources:

|                        |            |
|------------------------|------------|
| Total Budget:          | \$ 636,120 |
| Government of Ecuador: | \$ 254,120 |
| To be determined:      | \$ 382,000 |

Implementing Agency:

The Subsecretariat for Forestry and Renewable Natural Resources in the Ministry of Agriculture; The Training Ecology and Nutrition Foundation; and the Ecuadorian Army.

Starting Date and Duration:

To be determined  
Three years

The Project was approved by the Council at its Tenth Session in June, 1991 for sponsorship to other organizations following a presentation of a revision to the Secretariat.

(14) PD 159/91 Rev.2 (F) Studies for the Regulation and Sustained Management of The Tropical Rainforests of the Provinces of Napo and Sucumbios

Budget and Funding Sources:

|                        |              |
|------------------------|--------------|
| Total Budget:          | \$ 1,460,900 |
| Government of Ecuador: | \$ 299,000   |
| To be determined:      | \$ 1,161,900 |

**Implementing Agency:**

The Subsecretariat for Forestry and Renewable Natural Resources in the Ministry of Agriculture.

**Starting Date and Duration:**

To be determined  
Two and one half years

The Project was approved by the Council at its Tenth Session in June, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured. Furthermore, the permanent Committee recognized the potential for social conflict in the implementation of this project, and in its recommendation to the Council, it made any release of funds conditional of the Secretariat receiving a detailed workplan that included amongst other things:

- (a) A Consultative Committee to act as an official communication channel between the Project and all interested parties including any indigenous people living in the area or affected by the Project's activities.
- (b) A Steering Committee to guide the technical conduct of the project.
- (c) A time schedule and detailed budget for all activities within the approved Project document.
- (d) An indication of how environmental and social impact assessment will be taken into account during the implementation of the Project.

During the discussions regarding the above conditions, the delegation from Ecuador issued a verbal invitation to ITTO to constitute an independent international mission to review project planning and participatory processes so as to advise the Council, the Committee and potential donors on the status of these activities. At its Ninth Session, the Committee authorized the expenditure of any remaining funds from the Pre-project on the "Management of Natural Tropical Moist Forest to obtain a Sustainable Production of Wood and Other Forest products and maintain the Ecological Balance in Ecuador" to support such a review mission. It is anticipated that the mission will take place during 1992 at a date to be negotiated with authorities in Ecuador.

- (15) PD 171/91 Rev.1 (F) Conservation and Management for Multiple Use and Development of Colombian Mangrove Swamps

**Budget and Funding Sources:**

|                         |              |
|-------------------------|--------------|
| Total Budget:           | \$ 2,357,900 |
| Government of Colombia: | \$ 232,200   |
| To be determined:       | \$ 2,125,700 |

**Implementing Agency:**

National Institute of Renewable Natural Resources and Environment - IDERENA

**Starting Date and Duration:**

To be determined  
Three years

The Project was approved by the Council at its Eleventh Session in December, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

- (16) PD 172/91 Rev.1 (F) The Recovery of Natural Systems of the Hillside of Caqueta

**Budget and Funding Sources:**

|                         |              |
|-------------------------|--------------|
| Total Budget:           | \$ 1,158,250 |
| Government of Colombia: | \$ 93,000    |
| To be determined:       | \$ 1,065,250 |

**Implementing Agency:**

National Institute of Renewable Natural Resources and Environment - INDERENA

**Starting Date and Duration:**

To be determined  
Three years

The Project was approved by the Council at its Eleventh Session in December, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

- (17) PD 185/91 Rev.1 (F) Sustainable Forest Management and Development in Peninsular Malaysia

**Budget and Funding Sources:**

|                         |              |
|-------------------------|--------------|
| Total Budget:           | \$ 5,533,711 |
| Government of Malaysia: | \$ 2,065,088 |
| To be determined:       | \$ 3,468,623 |

**Implementing Agency:**

Forestry Department Headquarters, Peninsular Malaysia.

**Starting Date and Duration:**

To be determined  
Ten years

The Project was approved by the Council at its Eleventh Session in December, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

- (18) PD 194/91 Rev.1 (F) Recuperation and Demonstration Management of Secondary Forests in the Peruvian Amazon

Budget and Funding Sources:

|                       |            |
|-----------------------|------------|
| Total Budget Phase I: | \$ 716,400 |
| Government of Peru:   | \$ 227,400 |
| To be determined:     | \$ 489,000 |

|                        |              |
|------------------------|--------------|
| Total Budget Phase II: | \$ 1,541,600 |
| Government of Peru:    | \$ 602,200   |
| To be determined:      | \$ 939,400   |

Implementing Agency:

National Agricultural and Agro-Industrial Research Institute (INIAA) and the National Forestry Chamber (CNF)

Starting Date and Duration:

To be determined  
Phase I - one year  
Phase II - three years

The Project was approved by the Council at its Eleventh Session in December, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

- (19) PD 203/91 Rev.1 (F) Study Relating to Forest Management in the Fazao-Sud Region

Budget and Funding Sources:

|                     |              |
|---------------------|--------------|
| Total Budget:       | \$ 1,086,053 |
| Government of Togo: | \$ 104,310   |
| To be determined:   | \$ 981,743   |

Implementing Agency:

The Directorate for the Protection and Control of Wildlife Utilization.

Starting Date and Duration:

To be determined  
Two years

The Project was approved by the Council at its Eleventh Session in December, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

- (20) PD 204/91 Rev.1 (F) Identification and Study of a Plantation Project for the Production of Timber (2500) in the Reserved Forest of Halo-Baloe (Plateau Region)

**Budget and Funding Sources:**

|                     |            |
|---------------------|------------|
| Total Budget:       | \$ 415,554 |
| Government of Togo: | \$ 59,077  |
| To be determined:   | \$ 356,477 |

**Implementing Agency:**

ODEF on behalf of the Government of Togo

**Starting Date and Duration:**

To be determined  
One year

The Project was approved by the Council at its Eleventh Session in December, 1991. Financing was not allocated at that time, but the Council authorized the Executive Director to start implementation as soon as earmarked funds for the total ITTO contribution become available in the Special Account. Full financing has still not been secured.

### **3.3 Non-Project Activities**

At its Eleventh Session in December, 1991, The Council approved the inclusion of an Activity on the "Protection of Tropical Forests Against Fire" in the work programme of the Permanent Committee on Reforestation and Forest Management. During 1991 itself, eight Activities were in progress in the field of Reforestation and Forest Management. Brief descriptions of the progress in these activities during 1991 are given below.

#### **3.3.1 Guidelines for Best Known Practice in Forest Management**

The Overseas Development Administration (ODA) of the United Kingdom made available to ITTO an expert for a total work input of two months to prepare a paper regarding the need for and scope of guidelines for the management of natural forests and plantations in the tropics. The Paper was completed in January 1990. Australia also offered to assist in the development of guidelines by making available expertise and providing advice based on the experience with development and operation of management codes of practice in Australia.

In November 1989, at its Fifth Session, the Committee proposed that a small Working Group of representatives of Producer and Consumer Members, International Agencies, NGOs and the private sector be convened to consider the paper under preparation by ODA, and other relevant documents. The Working Group was to, based on these documents, develop recommendations and principles on how the guidelines are to be prepared and advise the Secretariat on the action to be taken for commissioning the preparation of the Guidelines for Best Known Practice.

The Council endorsed, at its Seventh Session, the establishment of the Working Group and authorized the Executive Director to allocate necessary funds from the Administrative Budget to cover the expenses of representatives of Member Governments to participate in the work of the Group.



The Working Group presented a report on its work, containing draft Guidelines for Sustainable Management of Natural Forests, to the Sixth Session of the Committee in May 1990. The Committee revised the draft Guidelines and submitted them to the Council with a recommendation that they be adopted as ITTO's Guidelines and given widest possible distribution. The Council endorsed the Committee's recommendation. Formal publications of the Guidelines in English French and Spanish editions in the ITTO publication series were released in February 1991 and they have been widely distributed since that date.

### **3.3.2 *Demonstration Models for Sustainable Production of Timber and Non-Timber Products and Conservation***

#### **Budget and Funding Sources:**

To be determined.

The Permanent Committee on Reforestation and Forest Management included in its Programme of Work an activity which aims to "Develop Demonstration Models of Management for the Sustainable Production of Timber and Non-timber Products and Conservation".

The objective is to establish a network of demonstration areas which can be used by Member Countries in the transfer of knowledge, for promoting sustainable forest management and for inspiring the development of new ideas and systems in tropical forest management. ITTO's forest management projects should as far as possible be designed so that they can be included in the network. Other areas where successful management systems are applied should be identified and incorporated.

The Executive Director wrote to all Member Countries, on 7 March 1990, and requested them to identify areas of successful forest management on which demonstration sites can be established and to send information on these areas to the Secretariat.

By the end of 1991, only four countries had responded - China, Australia, Ghana and Papua New Guinea. In all of these cases, further information has been required about the areas nominated as possible demonstration models. At its Ninth Session in December 1991, the Committee recommended that the Executive Director renew efforts to promote this activity using as appropriate the format for the management unit level that may be accepted by the Council following examination of the Hague Panel report [document ITTC (XI)/6].

### **3.3.3 *The Economic Case for Natural Forest Management***

#### **Budget and Funding Sources:**

|                          |  |
|--------------------------|--|
| Total Budget:            | \$ 219,000 (for the Asia/Pacific region) |
| Government of Australia: | \$ 50,000                                |
| Government of Japan:     | \$ 169,000                               |

#### **Implementing Agency:**

Forest Research Institute of Malaysia - FRIM

The Permanent Committee on Reforestation and Forest Management included in its Programme of Work an activity which aims at assessing the economic values gained from tropical forest management and gave this activity high priority. It was proposed in the Programme that the work should be initiated in the Asia/Pacific region and later on, when some experience had been gained from this pilot effort, extend it to the other tropical regions.

The Committee decided, at its Sixth Session on 16 - 23 May, 1990, to recommend to the Council to approve and finance a programme of research and data collection to establish the economic viability of natural forest management. The Council authorized, at its Eighth Session, the Executive Director to finance the implementation of the Activity in the Asia/Pacific region from the Special Account.

An Agreement was concluded between ITTO and the Forest Research Institute of Malaysia (FRIM), on 17 December, 1990, for implementing the Activity in the Asia/Pacific region. FRIM has concentrated its activities on developing a data base based around 24 forest resource categories and the use of the DBASE IV software. Data has been taken from various publications, unpublished reports and field observations. Some 382 records have been keyed into the data base covering twenty-four subject areas ranging from building materials to traditional medicines.

Contact points have been established in most of the participating countries in the region and the following activities are planned in the next six months:

- \* Procurement of computer systems for the participating countries.
- \* Visits by a member of the research team to the participating countries to establish the database system in these countries and provide training on the scope of the project, data collection and reporting methodologies and the application of software.
- \* Monitoring of data collection in all participating countries.

### **3.3.4 *Human Resources Development and Training Needs***

The Committee included in its Action Plan in the Field of Reforestation and Forest Management (document PCF(IV)/2 Rev. 1) actions for human resources development and for appropriate education and training. These fields of urgent action were given further emphasis in the Programme of Work for ITTO in the Field of Reforestation and Forest Management (document PCF(V)/3-4 Rev. 2), and the Committee requested the Secretariat to prepare a background paper to be used as a basis for focused deliberations on these action areas by the Committee. This paper, entitled Human Resources and Training Needs (document PCF(VI)/12), was considered by the Sixth Session of the Committee.

The Committee adopted the recommendations made in the Paper and requested that the Secretariat should coordinate the implementations of these recommendations with other international agencies, primarily FAO and ILO. However, due to the pressure of other work, the Secretariat has not been able to take any further action with this activity during 1991.

### **3.3.5 *Working Group on Guidelines for Management of Tropical Forest Plantations***

Budget and Funding Sources:

Total Budget:      \$ 50,000

The Permanent Committee decided at its Seventh Session in November 1990 to establish this Working Group and recommended to the Council that US\$ 50,000 be made available to meet the costs of convening the Group. The Council, at its Ninth Session, made available the required amount from the Administrative Account.

The Government of Germany pledged, at the Seventh Session of the Committee, to finance consultancy services for preparing a first draft of the Guidelines and to provide a venue for the meeting of the Group. The Executive Director wrote, on November 27, 1990, to the German delegation and requested confirmation that the assistance pledged at the Committee Session would be forthcoming. A reply confirming this support was received by the Secretariat on January 14, 1991.

Letters to selected member countries and organizations, requesting nominations for participants in the Working Group, were also sent on 27 November, 1990. By 31 December 1990, replies from three of the nine countries/organizations were received, with the final confirmation being received by the Secretariat on March 8, 1991.

It was hoped that the timing of the meeting of the Working Group could be coordinated with that of the Working Group on Incentives (see item 5). It was also desirable that the venues of the meetings be reasonably close to each other so that traveling time for the three who would normally take part in both groups - the Chairman, the Vice-chairman and the Assistant Director, - would be minimized. For this reason, a request was forwarded to the Federal Research Center for Forestry and Forest Products in Hamburg Germany on 18 January 1991 seeking to hold the meeting there on the week beginning April 8 1991. Confirmation of the availability of the venue was received on March 11 1991, and final confirmation of arrangements were faxed to participants on March 12 1991. The report of the working group was presented to the Committee in document PCF(VIII)/4.

The report was reviewed by the Committee at its Quito Session and adopted and requested the Executive Director to publish the document widely and promote its use throughout the international community and to make US\$ 30,000 available for this purpose. However, the publication of the guidelines has had to be deferred as there were insufficient monies left in the publication item of the administrative budget, though publication can be expected early in the new year.

### **3.3.6 *Working Group on Incentives for Tropical Forest Management***

#### **Budget and Funding Sources:**

Total Budget:       \$ 50,000

The Committee decided, at its Seventh Session in November 1990, to establish this Working Group and to request that the Council make available US\$ 50,000 to meet the costs of convening the Group. The Council decided, at its Ninth Session to make available the requested amount from the Pre-project Sub-account of the Special Account.

The Government of the Netherlands pledged, at the Seventh Session of the Committee, to finance consultancy services to compile a first draft of an ITTO document on incentives for tropical forest management. This draft should be based on the incentives document submitted to the Seventh Session of the Committee [PCF(VII)/3] and the report on the Pre-project "Incentives in Producer and Consumer Countries to Promote Sustainable Development of Tropical Forests" [document PPR 22/91 (M,F,D)].

The Executive Director wrote to the Delegation of the Netherlands, on November 27, 1990, requesting confirmation that the pledged financing would be forthcoming and enquiring if the Government of the Netherlands would also provide a venue for the meeting of the Group. Letters to selected Member Countries and international organizations were also sent on November 27, 1990 requesting nominations of participants in the Working Group.

A reply confirming the availability of a consultant and a venue was received from the Netherlands on January 15, 1991. This letter indicated that a draft incentives document could be produced by the beginning of March provided that the report of the ITTO pre-project on incentives was received by the end of January. The latter report was not in fact received by the Secretariat until 28 March 1991 and it was therefore decided on March 1 to postpone the Working Group meeting until after the Eighth Session of the Committee in Quito. It should also be noted that this would have enabled both the Committee and the Working Group to consider the discussions of the ITTO incentives pre-project report that will occur at the Round Table meeting that is planned to take place in conjunction with the Tenth Session of the ITTC and the Eighth Session of the Permanent Committees in Quito.

Following the various initiatives in Decision 3(X) of the Quito Session of the Council, the Ninth session of the Permanent Committee decided that there was no immediately clear role for the proposed Working Group, and recommended that the Council's approval for the Working group be rescinded until further notice.

### **3.3.7 *Technical Workshop to Explore the Feasibility of Forest Options***

#### **Budget and Funding Sources:**

|                      |  |
|----------------------|--|
| Total Budget:        | \$ 400,000 (of which ITTO: \$ 100,000) |
| Government of Japan: | \$ 100,000                             |

This Activity was submitted (as a project proposal) by the Government of Thailand to the Seventh Session of the Committee. The Committee decided to recommend to the Council that the Activity be supported by ITTO provided that other international organizations also pledge substantial support for it. It was suggested that ITTO should be prepared to co-finance the Activity to a maximum of \$ 100,000.

The Council decided, at its Ninth Session in November 1990 to adopt the recommendation made by the Committee. A draft agreement was sent to the Office of the National Environment Board, Thailand on 28 December 1990, and a preparatory committee meeting was held in Bangkok during the period 14 - 15 January 1991. The Workshop itself was held in Bangkok from 25 - 30 April 1991, and a set of proceedings have been published. A follow-up proposal was approved under PD 149/91 Rev.3 and was planned to be held in the Philippines in February, 1992.

### **3.3.8 *Working Group on Guidelines for the Conservation of Biodiversity in Tropical Production Forests.***

#### **Budget and Funding Sources:**

|               |            |
|---------------|------------|
| Total Budget: | \$ 50,0000 |
|---------------|------------|

The Permanent Committee decided at its Eighth Session in June 1991 to establish this Working Group and recommended to the Council that US\$ 50,000 be made available to cover the costs of convening the Working Group. This action was approved by the Council in Decision 6(X) of the Council which, amongst other things, authorized the Executive Director to allocate necessary expenses from the Administrative Budget to cover the expenses of representative of Member Governments participating in the Working Group. Subsequent to this decision, voluntary pledges were also received from the Government of the Netherlands (US\$ 20,000) and the Government of the United Kingdom (US\$ 15,000) to help defray costs of conducting the Working Group. The Governments of Australia and the United States also directly met the costs of the participation of their representatives in the Group.

Invitations to participants from selected members and organizations were issued on August 19, 1991, and the Working Group itself was held in Gruyeres Switzerland from October 2-4, 1991. The report of the Working Group was presented for the information of the Committee in document PCF(IX)/10. Comments received on the draft guidelines produced from the Working Group's deliberations were also produced for the information of the Committee in document PCF(IX)/13.

During its Ninth Session in December, 1991, the Committee established an informal working group to examine these reports and this group produced a revised draft [PCF (IX)/7 Rev.3 which was presented in a format that could be physically incorporated into the existing ITTO Guidelines for the Sustainable Management of Natural Tropical Forests. This document was accepted by the Committee as a preliminary consensus on what appropriate guidelines on the conservation of biodiversity in tropical production forests should be.

However, due to the late arrival of the first draft with member countries, it was recognized that insufficient time had been available to take full advantage of technical expertise in member countries to review the guidelines. In addition, it was recognized that decisions at the 1992 UNCED Conference on Environment and Development were likely to have implications for the future actions of all International Organizations with regard to biodiversity. The revised draft was therefore distributed to member countries for examination and possible future discussions at the Thirteenth Session of the Council in November 1992.

#### **4. FOREST INDUSTRY**

##### **4.1 Pre-Projects**

###### **4.1.1 Completed Pre-Projects**

The pre-project study on "Tropical Timber in Construction and Development of Harmonized Stress Grading Rules," implemented by the U.S. Forest Products Laboratory with the assistance of Engineering Data Management, was completed in the second half of 1991.

The pre-project study reviewed the status of tropical timber utilization in construction and the use of stress grading systems in the three main producing regions. The study concluded that opportunities exist for harmonizing stress grading rules within the three main timber producing regions, but the successful development and implementation of harmonized stress grading rules can only be achieved through a concerted effort involving technical assistance, training, and promotion of stress graded timber. The study recommended that further work be carried out with a view to:

- develop and implement regionally-harmonized stress grading rules for tropical hardwoods;
- provide technical assistance to producing countries to enable development of an adequate data base for structural characteristics and engineering properties of tropical hardwoods; and
- establish a program to promote stress graded tropical hardwood for domestic and export markets.

###### **4.1.2 Pre-Projects in Progress**

Ten approved pre-projects are under implementation or under and preparation for execution, summaries of their status development at the end of 1991 are given below during the year:

###### **(1) Industrial Processing of Rubber Wood Timber In Africa (Cameroon, Côte d'Ivoire, Ghana, Liberia) (\$ 133,000)**

The study on "Industrial Processing of Rubber Wood Timber in Africa (Cameroon, Cote d'Ivoire, Ghana, Liberia)" is being implemented under the responsibility of the Office National de Developpement des Forets (ONADEF), formerly Centre National de Developpement des Forets (CENADEFOR), Cameroon. This pre-project study provided assistance to selected African countries with rubber plantations to plan future manufacturing and trade in rubber wood products. The work included a study tour to rubber wood plantations and processing facilities, a market study, and a sawmilling feasibility study involving technical aspects and financial analysis.

The following activities have been completed:

1. Study tour to Malaysia and France;
2. Evaluation of rubber wood resources of participating countries (except Liberia);
3. Market and technical feasibility assessment; and
4. Feasibility analysis.

A regional seminar to discuss the results of the various implemented activities and to finalize the study was convened in the second half of 1991. The final report has been submitted to ITTO Secretariat and will be discussed at the Tenth Session of the Permanent Committee on Forest Industry.

**(2) Development Work to Phase Out Trade on Unsustainably Produced Timber: I - Assessment of Future Mahogany Supply and Alternative Industrial Operations for Sustainable Production (\$ 337,400)**

This pre-project is designed to carry out a preliminary assessment of the present situation and future prospects for the supply of Amazonian mahogany and explore alternative models for sustainable production. The pre-project study's immediate objectives are:

1. to analyze the supply and demand situation of mahogany, both for local and export markets;
2. to identify alternative models of production, including economic, social and environmental aspects, as well as organizational arrangements and institutional issues;
3. to evaluate the feasibility of the selected models; and
4. to prepare project proposals for follow-up action.

The work proposed in the pre-project will assist governments, particularly the Government of Brazil, to plan conservation of mahogany forests to ensure permanent and sustainable supply of mahogany timber while retaining the greatest possible value of the forests to local people, maintaining biodiversity and environmental conservation. The pre-project work will provide preliminary information that is essential to the planning process needed to design a major development and investment program on sustainable management and production to phase out unsustainable international trade of mahogany.

The study will fill a gap in availability of basic information on, among other important factors: the extent of mahogany forests in the Amazon basin; present status of mahogany production for the international and local markets and future prospects; assessment of feasibility of sustainable production of mahogany through the establishment of national or state forests and their production potential and alternative ways of organizing their management; and feasibility of management and harvesting systems minimizing site accessibility and environmental damage while optimizing production.

The pre-project study will be implemented by a conservation NGO from Brazil, FUNATURA. The work was expected to start early in 1991, but actual field work started only in mid-1991. Information on preliminary results on the initial activities were expected to be made available to ITTO early in 1992.

**(3) Institutional Strengthening of IBAMA'S Forest Products Laboratory (\$ 56,000)**

This pre-project study will assist the planning of future research work of the Forest Products Laboratory of the Brazilian Institute for Environment and Renewable Natural Resources (IBAMA). The study will review research and development activities of the laboratory with a view to adjust and improve its capability. The study will consider that future work to include the following priority areas:

1. studies and technological research, aiming at improving the knowledge of lesser-known wood species, expanding their commercialization and industrialization possibilities;
2. identification and selection of lesser-known species for industrial use, aimed at the sustainable production of the forest resources; and
3. development and dissemination of technology to increase the utilization of tropical timbers for different uses.

The implementation of the pre-project study is under the responsibility of IBAMA. Work will start early in 1992.

**(4) Manpower Development of the Sarawak Forest Sector (\$ 151,184)**

This pre-project study will assess the present and future workload requirements of the Sarawak Forest Department and determine the training needs of the sector to assist in the development of manpower for the entire Sarawak timber industry, including both the public and private sectors.

The pre-project study is to be implemented as follow-up work addressing the recommendations of the ITTO Sarawak Mission, which found that manpower development is essential if the economic potential of the forest resources of Sarawak, its forest industries and other forest values are to be maintained.

The implementation of the pre-project study is under the responsibility of the Forest Department, State Government of Sarawak, Malaysia. Contractual agreements for the pre-project implementation were completed late in 1991. The work is expected to start in early 1992.

**(5) Technical and Economical Feasibility of Large-Scale Construction of Wooden Houses in Brazil (\$ 77,500)**

This pre-project will review the literature on timber species available in the Brazilian market and on their use for wooden houses. The study will also review current timber housing construction projects and assess the constraints for wider and enhanced utilization of construction timber in Latin America. The pre-project will make recommendations on future studies needed and prepare a project proposal on building a demonstration house for tropical regions.

The implementation of the pre-project is under the responsibility of the Foundation of the University of Parana (FUNPAR), Brazil. The work is expected to start in early 1992.

**(6) Feasibility of a Promotion Center for Furniture Manufacturing in Ecuador (\$ 30,000)**

This pre-project will study the feasibility of a Promotion Center for furniture manufacturing in Ecuador. The results of the study will assist the Forest Industry Committee in the appraisal of a project proposal to establish such a Center presented by the Government of Ecuador. The pre-project study shall also investigate the potential for self-sufficiency of such a Center if established, considering also the option of an expanded Center with regional scope and the provision of furniture design assistance through overseas training. The study should also take into account the Center's viability over the long term, a main Committee concern given the low level of support from the private sector. Finally, the study will assess how comparative advantages in Mexico and Brazil might affect the viability of Ecuador's entry to this industry.



The implementation of the pre-project study is under the responsibility of the Ecuadorian National Association of Small-Scale Timber Industrialists (ANEPIM). The work is expected to start in early 1992.

**(7) The Industrial Utilization and Marketing of Eucalyptus Plantations of the Province of Loja, Ecuador (\$ 57,000)**

This pre-project study will assess the potential options and feasibility of industrial use of small logs from eucalyptus plantations in Loja. The assessment shall take into account:

- (i) existing experiences and knowledge in Eucalyptus processing and utilization;
- (ii) determination of production capability in Loja;
- (iii) sites for pilot or demonstration processing units;
- (iv) plantation management systems and logging methods;
- (v) markets and marketing possibilities; and
- (vi) community organization and training requirements.

The study is also expected to reformulate an earlier Ecuadorian project proposal to assist local indigenous Loja communities to manage and utilize their eucalyptus plantations. The reformulated proposal shall be designed with a focus on training, extension and demonstration activities.

The implementation agency of this pre-project study is the Subsecretariat for Forestry and Renewable Natural Resources, Ministry of Agriculture and Livestock, Ecuador. The work is expected to start in early 1992.

**(8) Feasibility Study on a Programme to Support the Sustainable Management of the African Forests Producing Industrial Timber in Order to Better Enhance Their Potential (\$ 42,262.50)**

This pre-project will study the factors in which regionally undertaken collective or joint actions would facilitate the attainment of ITTO's objectives in the African region.

The study will basically include two sets of activities:

- (i) Consultation with the member countries concerned.

These consultations will make it possible to define the countries' needs regarding the implementation of the ITTO Guidelines for the Sustainable Management of Natural and Planted Forests for Industrial Timber Production.

- (ii) Preparation of an Action Programme.

In the light of the results from (i) above, the programme could define actions to be undertaken in the following fields:

- assistance for the preparation of regional, then national, guidelines based on ITTO's Guidelines for the Sustainable Management of Natural and Planted Forests to produce industrial timber, with a view to preserving biodiversity;

- assistance for the development of modern legal instruments on sustainable forest management;
- consultation with both national bodies and professional users in industry regarding the implementation of the guidelines;
- training in sustainable forest management (inventory, mapping, preparation of management plans, operational provisions, silviculture); and
- assistance for the formulation, monitoring and implementation of projects to be submitted to ITTO.

**(9) Feasibility Study on a Program to Strengthen ITTO Activities in Latin America/Caribbean Through the Services of a Field Officer (\$ 48,825)**

This pre-project will study the feasibility of strengthening ITTO's activities in Latin America/Caribbean through the mechanisms proposed under Project PD 177/91 (F,M,I) Strengthening ITTO Field Activities and Monitoring in Latin America/Caribbean.

This study will explore options for posting a Senior ITTO Officer among relevant organizations collaborating with ITTO in the region (e.g. FAO, JUNAC, Amazon Treaty Cooperation, etc.).

The pre-project will prepare recommendations towards further improving the feasibility and cost benefits of the work proposed Project as stated.

The study will also include consultations with member countries in the region.

The implementation of the study is under the responsibility of ITTO. The work is expected to start early in 1992.

**(10) Provision of Assistance for Reassessment and Reformulation of Zairian Project Proposals PD 205/91 (I) National Saw Maintenance Centre and PD 209/91 (I) Study of Zairian Timber with a View to Promoting Certain Species (\$ 44,000)**

In coordination with the Zairian TFAP follow-up unit, this pre-project will assist the Government of Zaire in preparing project proposals for presentation to ITTO, under the following terms of reference:

- (a) Assess the wood production situation in Zaire, including the status and prospects for utilization and promotion of lesser-used species.
- (b) On the basis of the findings of activity (a) and taking account of Zairian institutional capability and institutional support that may be needed, develop the project profile presented under PD 209 into a full project proposal.
- (c) Review and assess availability of appropriate saws and sawdoctoring training needs in Zaire and prepare recommendations for action to fill gaps, in the light of ITTO priorities set up in the Action Plan. The planned activities may include the development of a full project proposal based on the profile presented under PD 205.

The implementation of the pre-project study is under the responsibility of ITTO and the Zairian Government. The work is expected to start in January 1992.

## 4.2 Projects

A total of 27 projects were reviewed and appraised by the Permanent Committee on Forest Industry in 1991. Following the Committee's recommendations, the Council approved for implementation the following projects:

|                       |  |
|-----------------------|--|
| PD 47/88 Rev.3 (I,F)  | Utilization of Lesser Used Species as Alternative Raw Materials for Forest-Based Industries  |
| PD 94/90 Rev.3 (I)    | Integration of Forest-Based Development in the Eastern Amazon - Phase II - Technology for Sustainable Utilization of Raw Forest Materials        |
| PD 121/91 Rev.2 (I)   | Entrepreneurship Development in the Furniture Industry   |
| PD 122/91 Rev.2 (I)   | Furniture Export Marketing Programme for the EEC   |
| PD 123/91 Rev.2 (I)   | Training Programme on Furniture Production   |
| PD 133/91 Rev.2 (I)   | Technological and Dendrological Study on Schinopsis (Anacardiaceae) in Chiquitania and the Bolivian Chaco  |
| PD 134/91 Rev.2 (I)   | Selection and Introduction of Lesser-Known and Lesser-Used Species for Specific End-Uses - Phase II  |
| PD 137/91 Rev.2 (I)   | Strategy for a Sustainable Wood Industry Sector in Ecuador   |
| PD 143/91 Rev.2 (I)   | Non-Wood Tropical Forest Products: Processing, Trade and Collection  |
| PD 150/91 Rev.1 (I)   | Identification and Nomenclature of Commercial Tropical Timber Species in the Andean Sub-Region   |
| PD 151/91 Rev.1 (I)   | Selection of Lesser-Known Tropical Timber Species of the Andean Sub-Region for Specific End-Uses   |
| PD 152/91 Rev.1 (I)   | Harmonization and Promotion of Technical Tropical Timber Standards in the Andean Sub-Region  |
| PD 153/91 Rev.1 (I)   | Feasibility Study to Establish an Andean Sub-Region Center for the Development of Sustained Forest Management and Support to the Timber Industry |
| PD 154/91 Rev.2 (I)   | Integrated Development of Timber and Timber Product Marketing Structure in Ecuador   |
| PD 155/91 Rev.1 (I)   | Sustained Forest Industry Development in the Andean Group Countries  |
| PD 160/91 Rev.1 (I)   | International Workshop on Improved Utilization of Timber Resources in Southeast Asia   |
| PD 163/91 Rev.2 (M,I) | Technical Assistance and Training for Forest Industry Development in Sabah, Malaysia   |
| PD 195/91 Rev.1 (I)   | Consumer Education on Timber and Processed Timber Products   |
| PD 196/91 Rev.1 (I)   | Utilization of Residues and Dendrothermal Energy in the Peruvian Forest Industry   |

The Committee recommended that the remaining eight proposals be revised in light of its appraisal and comments.

In the field of Forest Industry the Council approved in the quadrennium 1987-1990 a total of 50 projects for implementation, though financing and allocation of funds were effected only for 39 projects as of December 1991. The scope and status of on-going projects as well as of four projects completed in 1991 are briefly reviewed in sections 4.2.1 and 4.2.2.

#### **4.2.1. Projects Completed in 1991**

- (1) 3.e/87 (I) Proposals for Actions in Favour of the Lesser Known Species: e. Creation of an International Research and Development Network

##### **Budget and Funding Sources:**

|       |            |
|-------|------------|
| Total | \$ 255,000 |
| ITTO  | \$ 255,000 |

##### **Implementing Agencies:**

ITTO and CTFT

##### **Starting Date and Duration:**

February 1988  
18 months

This project has established a Data Bank Network covering technical and commercial information on 130 lesser-used African and Latin American tropical timber species. The Data Bank also includes information on a limited number of species from Asia/Pacific.

The agencies participating in the Network are:

##### **Africa**

|               |   |
|---------------|---|
| Cameroon      | Center National de Developpement Des Forets |
| Congo         | Center Technique Forestier Tropical         |
| Côte d'Ivoire | Center Technique Forestier Tropical         |
| Gabon         | Direction de L'Industrie                    |
| Ghana         | Forest Products Research Institute          |
| Liberia       | Forestry Development Authority              |

##### **Latin America/Caribbean**

|                     |  |
|---------------------|--|
| Bolivia             | Centro de Desarrollo Forestal  |
| Brazil              | Brazilian Institute for Environment and Renewable Natural Resources                      |
| Ecuador             | Dirección Nacional Forestal<br>Ministerio de Agricultura                                 |
| Honduras            | COHDEFOR (Corporación Hondureña de Desarrollo Forestal)                                  |
| Peru                | Instituto Nacional Forestal y de Fauna   |
| Trinidad and Tobago | Forestry Division- Ministry of Food Production Exploitation Forestry and the Environment |

The Data Bank provides importers, consumers, and other users of African and Latin American tropical timber with information on technical properties, end-uses, available volumes, and other useful data to facilitate and promote trade and consumption.

Though the great majority of agencies participating in the network were reportedly operational at project completion, the agencies responsible for Data Banks of at least four countries (Bolivia, Gabon, Liberia, and Trinidad and Tobago) will need further assistance to become operational.

- (2) 16/87 Rev.1 (I) Research and Development on the Standardization of Tropical Timber at the Andean Sub-Regional Level Phase 1: Review of the Current Situation of Timber Standardization and Development of Work Plans for Subsequent Phases

**Budget and Funding Sources:**

|       |            |
|-------|------------|
| Total | \$ 135,000 |
| ITTO  | \$ 135,000 |

**Implementing Agencies:**

National Institute for Agriculture Research (INIAA, Peru) assisted by Forestry Research Agency of participating countries and ITTO

**Starting Date and Duration:**

January 1990  
6 months

This 6-month project surveyed and assessed the present status of timber standards and nomenclature of species and groups of species at the level of the Cartagena Agreement Board. The study centered on standardization of mechanically processed wood products (sawnwood, veneer, plywood and blockboard) in the five Andean Pact member countries (Bolivia, Colombia, Ecuador, Peru and Venezuela). The findings were discussed at a sub-regional seminar whose outputs include work plans for the: (1) identification and preparation of uniform nomenclature for species and groups of species; (2) species grouping; (3) standardization of tropical timber in the Andean Sub-region; and (4) feasibility study for a regional center to support the Andean timber industry.

The major conclusions and recommendations for future action of the project are:

- (i) There is a need to contribute to forest management practices by preparing a Practical Manual on Commercial Tropical Timber Identification and Nomenclature in the Andean Sub-region, addressed to producers and consumers and covering 20 species per country up to a maximum of 100 species for the Sub-region, selected on the basis of production volumes and access to consumer markets.
- (ii) In order to contribute to forest management and to supplement existing technological information - such as the ITTO Atlas of Latin American Timber Species and other technical publications issued by the Andean Group - it is necessary to develop practical manuals illustrating identification methods at the dendrological and anatomical levels to be used by producers and consumers in the identification of major commercial tropical timber species of the Andean Sub-region.
- (iii) Coordinating the establishment of a network of accredited laboratories and forestry research and development centers in all five countries is essential to make the best of their expertise and at the same time contribute to their development by promoting the identification and nomenclature of tropical species and concluding joint agreements to ensure the supply of timber identified with commercial nomenclature for the domestic and international markets.

- (iv) To organize and consolidate the available information on tropical timber species of the Andean Sub-region with a view to integrating it into Project PD 18/87 Rev.1 (I) "Selection and Introduction of Lesser-Known and Lesser-Used Species for Specific End-Uses," already funded by ITTO and implemented by the TNO Timber Research Institute and the University of Wageningen, Netherlands.
- (v) To promote and encourage the use of technical standards amongst tropical timber producers and consumers, stressing their significant role in increasing productivity, reducing costs and facilitating access to international markets.
- (vi) To study and promote the NHLA (National Hardwood Lumber Association - USA) Rules for the classification of tropical hardwood timber according to its external appearance, and to train relevant personnel at various levels. To review, analyze and propose government policies and other measures to encourage production and utilization of standardized timber products of suitable quality.
- (vii) Making extensive use of the available information on National Forestry Action Plans, carry out a feasibility study for the establishment of an Andean Sub-region Center for the development of integrated and sustained tropical forest management and support to the timber industry.

Fulfilling its basic objective, the project prepared plans for future work on (i) species identification and nomenclature, (ii) timber standards and standardization, (iii) promotion of lesser-known species, and (iv) institutional development to support the Andean forest industry sector. These issues were addressed in the four project proposals generated by the project and submitted and approved at the Committee's Eighth Session:

|                        |  |
|------------------------|--|
| PD 150/91 Rev.1 (I)    | Identification and Nomenclature of Commercial Tropical Timber Species in the Andean Sub-Region   |
| PD 151/91 Rev.1 (I)    | Selection of Lesser-Known Tropical Timber Species of the Andean Sub-Region for Specific End-Uses   |
| PD 152/91 Rev.1 (I)    | Harmonization and Promotion of Technical Tropical Timber Standards in the Andean Sub-Region  |
| PD 153/91 Rev.1 (I)    | Feasibility Study to Establish an Andean Sub-Region Center for the Development of Sustainable Forest Management and Support to the Timber Industry |
| (3) PD 18/87 Rev.1 (I) | Selection and Introduction of Lesser-Known and Lesser-Used Species for Specific End-Uses   |

Budget and Funding Sources:

|                          |            |
|--------------------------|------------|
| Total                    | \$ 212,800 |
| Forestry Agency of Japan | \$ 72,000  |
| Govt. of the Netherlands | \$ 140,000 |

Implementing Agencies:

Agricultural University, Wageningen, The Netherlands and TNO Timber Research Institute, Delft, The Netherlands

Starting Date and Duration:

April 1989

planned - 12 months

actual - 18 months

This project produced a computer-based analytical system that allows for the matching of twenty-one technological properties of timber species with several criteria for end-uses, including windows, window frames, outside doors and flooring. Introduction of the properties of a timber species into the computer system provides immediate insight into its applicability for a specified end-use, both at a preferred and at a minimum level. If a timber species does not meet certain requirements, the system may indicate steps that can be taken to improve its potential applicability for a specified end-use. The program is user-friendly and, since it is contained on a single 3.5-inch floppy disk, is capable of operation on IBM/PC-compatible computer systems. The software and user's guide manual are being disseminated by the implementing agency and may be obtained also from ITTO Secretariat.

Work to further develop the computer program and expand its information basis was planned and submitted to ITTO under project proposal PD 134/91 Rev.1 (M,I). In the planned subsequent project phases producers of tropical timber will be provided with information about the markets to which these lesser-known tropical timber species may be introduced. The end-user, on the other hand, will obtain information about specific properties of these lesser-known species, most notably their physical, mechanical, technical and aesthetic characteristics. Users will also be provided with insights into the quantities in which the timber is available and the conditions under which it can be marketed, in particular, quality, size and delivery conditions. Both producers and consumers will get information about current market prices of tropical and other timbers, since this will determine the price at which unknown species can be introduced to the market. Other elements that will be the subject of future work are shipping conditions and costs, customs formalities, and the identification of trading partners who may have an interest in the lesser-known species.

Phase II of the project, submitted to the Eighth Committee Session, under Project PD 134/91 Rev.1 (M,I) was approved and funded.

- (4) PD 41/88 (I): The Identification, Properties and Uses of the Tropical Timber Imported to China from Southeast Asia

Budget and Funding Sources:

|                |           |
|----------------|-----------|
| Total          | \$ 53,800 |
| Govt. of China | \$ 20,000 |
| ITTO           | \$ 33,000 |

Implementing Agency:

Research Institute of Wood Industry, Chinese Academy of Forestry (CRIWI)

Starting Date and Duration:

March 1989

21 months

This project produced technical and promotional material to assist Chinese importers and users to properly identify, process and utilize tropical timbers from Southeast Asia. The technical literature on Asian tropical timbers was reviewed and technical data on 201 Asian species was stored in computers for utilization by interested parties in China. These activities comprise the first phase of a comprehensive program that will include also the study of species from Africa and Latin America/Caribbean.

The information stored in the computer data bank and available to Chinese tropical timber importers and users include:

- (i) anatomical description of 201 species comprising 171 genera and 57 families;
- (ii) botanical, commercial and Chinese names of the 201 tropical timber species;
- (iii) physical, mechanical and processing properties of the timbers; and
- (iv) species end-uses.

The technical information on Southeast Asian tropical timbers has been widely disseminated in China through promotional pamphlets and also through a book (Tropical Timbers of Southeast Asia - Identification, Properties and Uses), prepared and printed under the project. The project will be followed up by a second phase covering the study and dissemination of information on African timbers.

#### 4.2.2 Projects Under Implementation

- (1) 3.a/87 (I)      Enhancing Locally the Value of Lesser Known Species (Manufacture of Blockboards from Lesser Known Species in Cameroon)

##### Budget and Funding Sources:

|                   |                     |
|-------------------|---------------------|
| Total             | \$ 239,000          |
| Govt. of Cameroon | \$ 80,000 (in kind) |
| ITTO              | \$ 159,000          |

##### Implementing Agency:

Office National de Developpement des Forets (ONADEF)/Centre Technique Forestier Tropical (CTFT)

##### Starting Date and Duration:

September 1990  
12 months

This 12-month project is to facilitate transfer to Cameroon technologies for processing raw materials from lesser-known species into a manufactured stable product (edge-glued panel).

A research center in Cameroon (ONADEF), assisted by the "Centre Technique Forestier Tropical," (France) is responsible for the project development activities. Fifteen to twenty cubic meters of edge-glued panel will be manufactured, of which five cubic meters will be distributed to timber using industries and craftsmen to allow them to become familiar with the characteristics of the products. Additionally, the project includes a 2- to 3-day training session aimed at promoting and raising interest of the private sector in manufacturing and using edge-glued panels.

A preliminary mission from CTFT (France) visited ONADEF in November 1990 to assess ONADEF's facilities and assist planning the project activities. The mission prepared a report detailing additional material and equipment to be purchased and scheduling the work of the CTFT's technician that will assist the project in Yaoundé. Procurement of wood raw materials to be studied in the project and purchase of research equipment have been finalized and planned research activities started in October 1991 with the participation of an expatriate consultant from CTFT.



- (2) PD 4/87 Rev.1 (I) Training in Planning and Management of Forest Industries in Developing Countries

**Budget and Funding Sources:**

|         |              |
|---------|--------------|
| Total   | \$ 1,772,500 |
| FINNIDA | \$ 1,772,500 |

**Implementing Agency:**

Forestry Training Program (FTP) with the assistance of FAO and ITTO

**Starting Date and Duration:**

October 1989  
4.5 years

This project will design and implement - in Africa, Latin America/Caribbean and Asia/Pacific - training programs with the aim of increasing and improving the appropriateness and contribution of existing and new timber-based industries to regional and sub-regional development. The project will: (1) survey the training materials and review the curricula of the existing training institutions specializing in forest industries; (2) prepare appropriate training materials and further training proposals necessary for forest industries planning, management and operation; (3) design and hold six seminars to improve the knowledge and skills of about 120 managers of forest industry enterprises and representatives of public agencies from producing regions; and (4) design and implement at the national level six complementary training programs.

Implementation of the project started in October 1989 with the recruitment of a Project Manager. The implementation is progressing as scheduled. The preparatory work and phase I of the project has been completed, and included the execution of the following activities:

- establishment of the expert network in participating countries;
- surveying training needs in planning and management of forest industries;
- preparation of guidelines for planning and management of appropriate forest industries and methodology for their evaluation; and
- convening the first two regional training workshops in Accra, Ghana, (January 1991) and Panama City, Panama, (April 1991).

The third regional workshop for French-speaking ITTO members in Africa will be held in Abidjan, Côte d'Ivoire, in January 1992.

A tripartite review of the project with participation of FTP/FINNIDA, FAO and ITTO was held in December 1991.

- (3) 11/87 (I) Malaysian Timber Industry Board and Timber Industry Upgrading

**Budget and Funding Sources:**

|                |            |
|----------------|------------|
| Total          | \$ 345,000 |
| Govt. of Japan | \$ 345,000 |

**Implementing Agency:**

Malaysian Timber Industry Board (MTIB)

**Starting Date and Duration:**

January 1989  
3 years

This 3-year project involves a training program for forest industries and government executives from Malaysia. The training program comprises both short term courses in technical areas in the timber industry (marketing, furniture standards and design, feasibility studies, and so on) as well as formal education courses at the graduate level, leading to university degrees in business administration.

The ongoing or completed training activities sponsored by the project include:

- diploma course on business studies  
(1 participant, on-going);
- master's course on forest industry technology  
(1 participant, on-going);
- master's course on business administration  
(6 participants, of which 4 completed and 2 on-going);
- doctoral course on business administration  
(1 participant, completed); and
- courses on export marketing and business studies  
(2 participants, completed).

As part of the training activities sponsored under the project, a number of industry entrepreneurs and MTIB professionals attended in 1991 several short term training courses related to timber processing and marketing.

In addition to the core training program, the project is contributing to computerization of MTIB operations with computer hardware, software and training of MTIB staff. A computerized information system is being developed and is expected to be operational by the middle of 1992.

The Project Steering Committee met in December 1991 to review the project implementation progress and to discuss the activities for the final project year (1992).

(4) 12/87 (I) Research on Utilization of Tropical Timber in Construction

**Budget and Funding Sources:**

|                |                      |
|----------------|----------------------|
| Total          | \$ 494,422           |
| FRIM           | \$ 220,538 (in kind) |
| Govt. of Japan | \$ 273,884           |

**Implementing Agency:**

The Forest Research Institute of Malaysia, FRIM

**Starting Date and Duration:**

October 1990  
5 years

This project consists of a research program in timber housing construction to be carried out by the Forest Research Institute of Malaysia, aimed at increasing and improving the utilization of timber in housing and building construction in the country. Research emphasis will be on timber use and performance in load bearing applications, and expected outputs include several technical papers, manuals and design guides.

The contractual agreement for project implementation was finalized in September 1990. As of December 1991 the following activities had been completed or were under implementation:

- (i) recruitment of a research scientist;
  - (ii) research equipment selection and purchase, including hydraulic jacks, hydraulic loading control systems and load cells;
  - (iii) studies on selection and definition of construction standard sized components (wall panels, roof rafters, joints, etc.) and preparation of an Information Paper on this subject; and
  - (iv) studies and testing on timber joints and fasteners.
- (5) 37/87 Rev.3 (I) Industrial Use of new Forest Species in Peru

**Budget and Funding Sources:**

|                |         |                      |          |                      |
|----------------|---------|----------------------|----------|----------------------|
| Total          | Phase I | \$ 829,250           | Phase II | \$ 841,750           |
| Govt. of Japan | Phase I | \$ 448,750           | Phase II | \$ 461,250           |
| Govt. of Peru  | Phase I | \$ 380,500 (in kind) | Phase II | \$ 380,500 (in kind) |

**Implementing Agencies:**

General Directorate of Forests and Wildlife of the Ministry of Agriculture and selected timber industries in Pucallpa, Iquitos and Lima

**Starting Date and Duration:**

April 1990  
2 years

This 2-year project involves formulation and implementation of an applied research program to promote industrialization and commercial introduction of 20 lesser-known timber species found in Peru. Species for which basic technical information already exists will be processed and tested in seven wood industries in the departments of Lima, Loreto and Ucayali. Products manufactured on a trial basis will be promoted and introduced in the domestic and international markets. Industrial research will concentrate on sawmilling, wood drying and preservation, veneer and plywood manufacturing, posts, sleepers, wood-cement boards, parquet, moulding, furniture and housing components. The program will contribute to technology transfer to processing mills in Peru and manpower development through training of national counterparts, and through several courses and seminars to be attended by at least 300 participants at management and technical levels.

The consultancy work to prepare a detailed work plan was finalized in June 1990. The actual industrial research program was initiated in July 1990. As of August 1991 the following activities had been completed:

- (i) Selection of species to be researched in the program;

- (ii) Preparation of detailed work plans for timber harvesting, industrial research and marketing promotion;
- (iii) Harvesting and processing 1,145 m<sup>3</sup> of logs of 25 species in the Pucallpa region. Yield, productivity and profitability data were collected when sawing these logs into commercial lumber products;
- (iv) Determination of physical properties of 16 species;
- (v) Several experiments on timber sawing, drying and preservation aimed at optimizing processing operations;
- (vi) Seminar for college level architecture and engineering students on "utilization of new species in timber construction";
- (vii) Seminar for carpenters and other wood construction workers on practical aspects of "using new forest species on timber construction";
- (viii) Supply to the domestic market of trial volumes of products manufactured with the new species;
- (ix) Promotion of the new species in the Japanese markets through the employment of Japanese consultants and organization of three promotion seminars in Tokyo and Nagoya;
- (x) Promoting the new species in Europe through a commercial promotion mission with participation of the project manager, a European consultant and timber exporters from Peru;
- (xi) Seminar on sawdoctoring held in Pucallpa, Peru in May 1991;
- (xii) Preparation of draft technical standards for railway sleepers; and
- (xiii) A seminar on "Opportunities for Developing Wood as a Construction Material in Peru," held in Lima from 12 to 15 August 1991.

Preliminary results indicate that sawnwood yields were relatively low for most species tested, primarily because of log size and form, but also because of degradation caused by fungi and insect attack to susceptible species. Moreover, the results seem to signify that for some of these species sawnwood production may not be economically feasible, clearly demonstrating the need for production and marketing of value-added products such as mouldings and furniture components.

Phase I is expected to be completed by the end of January 1992.

- (6) PD 54/89 (I) Study on Utilization Structure of Tropical Timber Products in Korea and Promotion of Processed Wood Products Supply from Tropical Timber Producing Countries

#### Budget and Funding Sources:

|                |                     |
|----------------|---------------------|
| Total          | \$ 123,000          |
| Govt. of Japan | \$ 73,000           |
| Govt. of ROK   | \$ 50,000 (in kind) |

Implementing Agency:

Korean Forest Research Institute

Starting Date and Duration:

September 1990  
2 years

This two-year project examines the Korean market for tropical timber and reviews the country's import and utilization trends. The study is focusing on the furniture and musical instrument industries and will provide the basis for promoting imports of semi-processed and processed timber products for these industries. To this end, the project is surveying and assessing the potential of selected producing countries from Africa, Asia/Pacific and Latin America/Caribbean to supply value-added parts and components to be used in production lines of furniture and musical instruments mills in the Republic of Korea. The project is producing valuable information on comparative production advantages and on investment opportunities in further processing enterprises in selected ITTO producing member countries.

A comprehensive work plan has been prepared detailing methods and procedures, personnel inputs, budget and time schedule for implementation of activities and sub-activities.

As of December 1991 the following activities had been completed:

- (i) a review of trade statistics and establishment of a data bank for analyzing the structure and trends in the Korean tropical timber import market;
  - (ii) review of Korean policies and mechanisms for investment in foreign countries, focusing on the forest products industry; and
  - (iii) assessment of comparative advantages and investment opportunities for Korean forest industries in selected producing countries.
- (7) PD 60/89 (F,M,I) Fellowship and Related Assistance Program to Promote Tropical Forest Sector Development

Budget and Funding Sources:

|                          |               |
|--------------------------|---------------|
| Total                    | \$ 908,214.62 |
| Govt. of Japan           | \$ 790,039    |
| Govt. of the Netherlands | \$ 118,175.62 |

Implementing Agencies:

ITTO with assistance of FAO and JICA

Starting Date and Duration:

1989  
2 years with annual extensions to 1992

The objective of this project, known as the "Fellowship and Small Grants Programme," is to promote human resources development and institutional strengthening in the forestry sectors of member countries. Activities include the funding of fellowships for short-term activities such as visits to research or educational institutions, participation in seminars, workshops, training courses, and conferences, technology transfer, and preparation of technical documents through authors' contracts.

The information sheet was revised and simplified in July 1991. Deadlines were set for receipt of applications one month in advance of the Selection Committee meetings to ensure time for proper consideration of all candidates. The widest possible distribution of this information sheet is intended to promote equity among member countries in respect of the number of approved applications.

At the two Sessions of the Committees in 1991, 20 out of 76 applications were approved and funded.

The Committee requested that an independent review of the fellowship program be carried out in time for consideration at its Tenth Session in May 1992. As an interim measure to support the program until a full evaluation is considered, the Committee decided to recommend and the Council approved additional funding to supplement the fellowship funds.

(8) PD 63/89 Rev.1 (I) Low-Cost Houses from Small Diameter Trees, Plantation Thinnings and Tree Tops and Branches

Budget and Funding Sources:

|                          |                        |
|--------------------------|------------------------|
| Total                    | \$ 2,465,005.23        |
| Govt. of Japan           | \$ 563,654             |
| Govt. of The Netherlands | \$ 236,351.23          |
| Govt. of The Philippines | \$ 1,665,000 (in kind) |

Implementing Agency:

Forest Products Research and Development Institute (FPRDI)

Starting Date and Duration:

April 1991  
3 years

This 3-year project is a research and development program to improve processing of logging residues and silviculture thinnings and their utilization as housing materials. The project will study low capital and labor intensive technologies to allow the use of these raw materials for manufacturing lumber, finger-jointed pieces, plywood and wood cement/gypsum boards to be used in suitably designed low-cost houses. Appropriate drying and preservation techniques for the construction materials proposed will also be researched.

Model houses will be built with the construction materials generated through this project. A feasibility study on the establishment of small-scale community-based enterprises and an assessment of socio-economic benefits will follow and complete the program.

The contractual agreement for project implementation was finalized at the end of March 1991 with immediate project commencement. Project work so far has concentrated on selection of consultants and purchase of research equipment.

(9) 70/89 Rev.2 (I) World Conference on Tropical Plywood in Asia Pacific Region

Budget and Funding Sources:

|                |            |
|----------------|------------|
| Total          | \$ 205,000 |
| Govt. of Japan | \$ 175,000 |
| JPMA           | \$ 30,000  |

Implementing Agencies:

ITTO and JPMA

Starting Date and Duration:

April 1990  
8 months

This project organized and convened a conference on tropical plywood in Jakarta, Indonesia, from 11 to 14 December 1991. The conference provided a successful forum for exchange of information, consultation and cooperation between tropical plywood producers and consumers. The conference focused on: (1) sustainability of resources; (2) technology transfer; (3) processing and quality improvement; (4) waste reduction; (5) standardization; and (6) improvement of statistics. Several technical papers addressing these topics were commissioned and presented to the conference.

The proceedings of the conference, which was attended by over 100 participants, are under preparation and are expected to be available in May 1992.

All of these issues reflect the need for continued and better informed dialogue and consultation. The specific proposals which emerged, reflecting this need were as follows:

- 1) Continuation of the Forum  
It was strongly recommended that the Tropical Plywood Conference be reconvened on a regular basis. This may be undertaken as a project within the ITTO framework.
- 2) Producers Association  
It was agreed that the dialogue should continue on the formation of an International Tropical Plywood Producers Association, covering the countries with a tropical timber heritage.
- 3) Pricing Discussions  
It was agreed that tropical plywood producers and consumers should meet regularly, within the ITTO framework, to develop a pricing system that will be remunerative to the producer and equitable to the consumer.
- 4) Market Access  
It was agreed that producers and consumers should work together, within the ITTO framework, to improve market access for tropical plywood to all importing markets.
- 5) Harmonization of Standards  
It was agreed that the industry profitability, and thus a better pricing system, would be facilitated by harmonization of international standards concerning tropical plywood. It was therefore proposed that a project be submitted to ITTO to carry out a study of the feasibility of developing such standards.
- 6) Public Information  
In view of the extent to which the public debate about tropical forests is distorted by erroneous information, it was proposed that ITTO should strengthen its public information programme to stress the importance of the role of the international trade in tropical plywood in achieving sustainable management and utilization of the conservation of tropical forests.

(10) 73/89 (M,F,I) Assistance for Project Identification and Formulation

Budget and Funding Sources:

|                  |            |
|------------------|------------|
| Total            | \$ 746,900 |
| Govt. of Denmark | \$ 200,000 |
| Govt. of Japan   | \$ 546,900 |

Implementing Agency:

ITTO

Starting Date and Duration:

April 1990  
1 year

The objective of this project is to improve project identification and formulation capabilities of the responsible personnel in ITTO producer member countries in order to expand national absorption capacity for investment and aid in the forestry sector.

The project is closely linked to other ITTO activities which together comprise a multi-pronged approach to seeking excellence in the structure and implementation of the project cycle. The components are:

- (1) The inception of the Expert Panel for Technical Appraisal of Project and Pre-Project Proposals (first meeting February 1991).
- (2) The Report of the Independent Consultants on the Project Cycle Review, which gave rise to amendments implemented from July 1991.
- (3) Special country and regional missions to assist in project formulation planning [PD 73/89 (M,F,I)].
- (4) Contracting of individual consultants to assist member countries directly in project formulation.
- (5) Training workshops for middle management [PD 73/89 (M,F,I)].
- (6) Publication of a comprehensive new project preparation manual. Originally conceived within the framework of PD 73/89 (M,F,I), the sheer size of this task has now led to a separate consultancy commissioned by an ITTC 2(X) Decision.

Although four regional training workshops were planned, a further injection of \$ 200,000 from the Government of Japan proved necessary to underwrite a third workshop and further missions. The training workshops were contracted to the Economic Development Institute of the World Bank for implementation; a trilingual Seminar Director was appointed and the first workshop for English-speaking participants took place in Bangkok, from 18 February - 8 March 1991, with the support of the ASEAN Agriculture Development Planning Centre (ADPC); sixteen participants attended from Ghana, Indonesia, Malaysia, Nepal, Papua New Guinea, Philippines, and Thailand. The second workshop for French-speaking participants took place in Abidjan, 3-21 June 1991, with the support of the World Bank's Resident Mission in West Africa. Fifteen participants attended from Cameroon, Congo, Cote d'Ivoire, Gabon, Togo, and Zaire.



Both workshops were successful, and a third workshop for Spanish-speaking participants is scheduled for Quito, Ecuador, 6-24 January 1992.

The work done by the consultant in Ecuador and the mission to Papua New Guinea earlier in 1991 are project activities which are expected to continue in similar forms in other regions next year, bearing in mind the recommendations of the Second Expert Panel for Missions to Africa, and to Latin America. To date it has not proved possible to deploy the Danish funds but opportunities may present themselves during the planning of the forthcoming missions, particularly for missions recently requested by the Government of Colombia, Côte d'Ivoire, Gabon and Ghana.

(11) 93/90 (I) Introduction of Lesser-Known Species in the Amazon Plywood Industry

Budget and Funding Sources:

|                |            |
|----------------|------------|
| Total          | \$ 254,540 |
| Govt. of Japan | \$ 254,540 |

Implementing Agency:

Brazilian Association of Plywood Industries - ABIMCE

Starting Date and Duration:

April 1991 (planned)  
2 years

This 2-year research project will focus on promoting the use of lesser-known species in the plywood industry, mainly as core veneers. Species from both low-lying ("varzeas") and high altitude areas will be tested in production runs in two plywood mills. The trial panels will be analyzed and compared with commercial ones. The physical and mechanical properties and other quality aspects will be assessed in laboratories of existing research institutes. The work will also include an economic evaluation of the feasibility of using lesser-known species for veneer and plywood manufacturing.

The contractual agreement for project implementation was finalized in March 1991. As of December 1991 the following activities had been completed or were under implementation:

- (i) preparation of a detailed work plan;
- (ii) literature review;
- (iii) selection of cooperating plywood mills and forest areas; and
- (iv) inventory of 350 ha within a production forest of 34,000 ha, selected for harvesting high altitude ("terra firme") raw material for the industrial research.

(12) 94/90 Rev.3 (I): The Integration of Forest-Based Development in the Western Amazon - Phase II - Technology for Sustainable Utilization of Raw Forest Materials

Budget and Funding Sources:

|                      |                        |
|----------------------|------------------------|
| Total                | \$ 3,425,000           |
| Govt. of Brazil      | \$ 1,550,000 (in kind) |
| Govt. of Japan       | \$ 1,575,000           |
| Govt. of Switzerland | \$ 300,000             |

**Implementing Agency:**

State of Acre Technology Foundation (FUNTAC)

**Starting Date and Duration:**

July 1992  
3 years

This 3-year project will plan and initiate the industrial processing and utilization of timber and non-timber raw materials to be sustainably produced in the Antimari State Forest (Acre, Brazil). The proposed forest industry development will be based on the results of the socio-economic and environmental studies and preliminary forest management guidelines prepared in phase I [ITTO Project PD 24/88 (F) Integration of Forest-Based Development in the Western Amazon - Phase I - Forest Management to Promote Policies for Sustainable Production].

The project implementation (second phase) is expected to be contracted early in 1992.

- (13) 102/90 (I) Development of Waferboard Products from Potential Tropical Wood Species for Building Pre-Fabricated Houses

**Budget and Funding Sources:**

|                |                         |
|----------------|-------------------------|
| Total          | \$ 371,858.02           |
| Govt. of Japan | \$ 72,480.02            |
| INPA           | \$ 299,378.00 (in kind) |

**Implementing Agency:**

Amazonia National Research Institute (INPA), Forest Products Department (DPF)

**Starting Date and Duration:**

March 1992 (planned)  
18 months

This 18-month project will implement a research program on the utilization of Amazonian tropical species for manufacturing waferboard for construction use. Boards will be experimentally produced with three different species. Variables that will be studied are resin content and pressing time. The boards' strength and dimensional stability properties will be analyzed. The experimental boards manufactured under optimum conditions will be used as wall and flooring materials in a prototype house where they will be compared with commercial plywood panels.

Following submission by the implementing agency of additional information requested by the Committee, the contractual arrangements for project implementation are being finalized. The work under the project is expected to start in early 1992.

- (14) 108/90 Rev.1 (I) Forest Industry Development Studies

**Budget and Funding Sources:**

|                |                     |
|----------------|---------------------|
| Total          | \$ 535,000          |
| Govt. of Japan | \$ 475,000          |
| Govt. of PNG   | \$ 60,000 (in kind) |

**Implementing Agency:**

Forest Department, Papua New Guinea

**Starting Date and Duration:**

May 1991 (planned)  
2 years

This 2-year project will implement forest industry development studies with a view to assess the possibilities of increasing socio-economic benefits through establishing appropriate forest industries in Papua New Guinea. The project will survey the existing timber industries of PNG and follow-up with a forest industry development plan. This plan will include the implementation of pre-industrial surveys and pre-feasibility studies for the establishment of an integrated sawmill and wood based panel plant, an export wood chipping mill, a MDF plant and a pulp mill.

The revised version of the project [PD 108/90 Rev.1 (I)], submitted by the Government of Papua New Guinea, was approved by the Committee on Forest Industry at its Eighth Session in May/June 1991.

The contractual agreement for project implementation was finalized in the second half of 1991 and the project work is expected to start early in 1992.

(15) 123/91 Rev.2 (I) Training Programme on Furniture Production

**Budget and Funding Sources:**

|                |                     |
|----------------|---------------------|
| Total          | \$ 153,500          |
| Govt. of Japan | \$ 143,500          |
| MTIB           | \$ 10,000 (in kind) |

**Implementing Agency:**

Malaysian Timber Industry Board (MTIB)

**Starting Date and Duration:**

December 1991  
9 months

This 9-month project will provide practical "hands on" training on furniture production planning and control to 14 selected participants from the Asia/Pacific region.

The 14 selected participants will undergo advanced level training in furniture production and planning at a suitable training organization. The main areas of study will be plant layout, production scheduling and control, and materials handling. The training programme will consist of one month of formal lectures with visits to suitable furniture mills.

The contractual agreement for project implementation was finalized in November 1991.

- (16) 133/91 Rev.1 (I) Technological and Dendrological Study on *Schinopsis* (Anacardiaceae) in Chiquitania and the Bolivian Chaco

Budget and Funding Sources:

|                  |                     |
|------------------|---------------------|
| Total            | \$ 218,125          |
| Govt. of Bolivia | \$ 88,225 (in kind) |
| Govt. of Japan   | \$ 129,900          |

Implementing Agency:

Forestry Development Center assisted by the General Directorate of Standards and Technology

Starting Date and Duration:

March 1992 (planned)  
18 months

This 18-month project will implement a systematic and comprehensive research study on the identification and utilization of the *Schinopsis* species in Eastern Bolivia. The major activities are planned and presented as detailed sub-projects including: (1) natural regeneration, (2) dendrological studies, (3) sampling, (4) preparation of test materials, (5) physical and mechanical tests, (6) anatomical studies, (7) durability studies, (8) determination of tannin contents, (9) assessing and evaluation of results, and (10) final seminar.

The contractual agreement for project implementation was finalized in November 1991.

- (17) 134/91 Rev.2 (I) Selection and Introduction of Lesser-Known and Lesser-Used Species for Specific End-Uses Phase 2

Budget and Funding Sources:

|                          |            |
|--------------------------|------------|
| Total                    | \$ 183,000 |
| Govt. of Japan           | \$ 146,000 |
| Govt. of the Netherlands | \$ 37,000  |

Implementing Agencies:

Agriculture University Wageningen  
TNO Industrial Research, Delft  
Foreign institutes to be indicated by the cooperating governments

Starting Date and Duration:

December 1991  
6 months

This project is a long term program of work on selection and market introduction of lesser-known species. Phase 1 of this project produced a computer-based analytical system that allows the matching of twenty-one wood properties with several criteria for six selected end uses. This second project phase will initiate work to expand the data base and to provide producers and consumers of tropical timber with information about the markets, timber properties, available quantities, quality, sizes and delivery conditions, as well as market prices.

The contractual agreement for project implementation was finalized in November 1991 and the meeting of the Project Advisory Group is scheduled in January 1992.

(18) 137/91 Rev.2 (I) Strategy for a Sustainable Wood Industry Sector in Ecuador

Budget and Funding Sources:

|                   |                     |
|-------------------|---------------------|
| Total             | \$ 495,082          |
| Govt. of Ecuador  | \$ 26,559 (in kind) |
| Govt. of Japan    | \$ 268,523          |
| Govt. of the U.S. | \$ 200,000          |

Implementing Agencies:

Subsecretariat for Forestry and Renewable Natural Resources  
Ministry of Agriculture and Livestock, Government of Ecuador

Starting Date and Duration:

December 1991 (planned)  
11 months

This 11-month project will prepare a basic plan for the sustainable development of Ecuadorian wood processing industries, based on a reliable assessment of the forest resources in the country and on the long-term demand and supply outlook for forest products.

The contractual agreement for project implementation was finalized in December 1991.

(19) 143/91 Rev.2 (I) Non-Wood Tropical Forest Products: Processing, Trade and Collection

Budget and Funding Sources:

|                 |            |
|-----------------|------------|
| Total           | \$ 374,000 |
| Govt. of Japan  | \$ 150,000 |
| Govt. of U.S.   | \$ 200,000 |
| Govt. of Norway | \$ 24,000  |

Implementing Agency:

FUNATURA with the cooperation of IBAMA, EMBRAPA, INPA, MPEG, SUDAM, UFPA and FCAP

Starting Date and Duration:

March 1992 (planned)  
2 years

This 24-month project will study the non-wood forest products of a selected pilot tropical forest area (Tapajos National Forest) in Santarem in the East Brazilian Amazon. The project will survey potentially and commercially important products and assess their role in the local and regional economies. The study will also focus on assessment of further processing possibilities with the objective of adding value to products which are mostly traded by the local communities with little or no processing at all.

The contractual agreement for the project implementation is expected to be finalized early in 1992.

- (20) 150/91 Rev.1 (I) Identification and Nomenclature of Commercial Tropical Timber Species in the Andean Sub-Region

**Budget and Funding Sources:**

|                |                      |
|----------------|----------------------|
| Total          | \$ 1,057,000         |
| Govt. of Japan | \$ 550,000           |
| INIAA          | \$ 507,000 (in kind) |

**Implementing Agency:**

National Agriculture and Agro-industrial Research Institute (INIAA) assisted by Forestry Agencies in the Andean Sub-region countries

**Starting Date and Duration:**

March 1992 (planned)  
3 years

The objective of this 3-year project is to harmonize nomenclature for major commercial timber species in the Andean Sub-region and prepare a practical manual for their dendrological and anatomical identification. The study will include work on 100 species identified in the project proposal. The project will also plan and implement training activities to promote proper identification of species and use of harmonized nomenclature.

The contractual arrangements for project implementation are expected to be finalized early in 1992.

- (21) 152/91 Rev.1 (I) Harmonization of Technical Tropical Timber Standards in the Andean Sub-region

**Budget and Funding Sources:**

|                |                      |
|----------------|----------------------|
| Total          | \$ 478,000           |
| Govt. of Japan | \$ 316,000           |
| INIAA          | \$ 162,000 (in kind) |

**Implementing Agencies:**

National Agriculture and Agro-industrial Research Institute (INIAA)  
Technical Standards and Industrial Technological Research Institute (TTINTEC)

**Starting Date and Duration:**

March 1992 (planned)  
2 years

This 2-year project will promote standardization as a means of improving the quality of Andean tropical timber products and increasing export timber supply and access to consumer markets. The specific objectives of the project (phase I) are:

- to identify the main reasons for the limited use of technical standards in the field of forest products in the Andean Sub-region and to suggest actions to ensure effective use of standards; and
- to promote and encourage the use of the sawnwood grading rules of the National Hardwood Lumber Association (NHLA) in the five Andean Sub-region countries;

A draft contractual agreement for project implementation was submitted to the Government of Peru in October 1991.

(22) 154/91 Rev.2 (I) Integrated Development of Timber and Timber Products Marketing Structure in Ecuador

Budget and Funding Sources:

|                |            |
|----------------|------------|
| Total          | \$ 244,000 |
| Govt. of Japan | \$ 244,000 |

Implementing Agency:

Corporación Andina de Fomento en Coordinación con el Ministerio de Agricultura y Ganadería del Ecuador

Starting Date and Duration:

March 1992 (planned)  
18 months

This 18-month project will carry out studies on the current timber marketing structure in Ecuador in order to improve commercialization of Ecuadorian timber products in the national and international markets.

The contractual agreement for project implementation is expected to be finalized early in 1992.

(23) 155/91 Rev.2 (I) Seminar on Sustained Forest Industry Development in the Andean Group Countries

Budget and Funding Sources:

|                  |            |
|------------------|------------|
| Total            | \$ 184,000 |
| Govt. of Japan   | \$ 84,000  |
| Govt. of the U.S | \$ 100,000 |

Implementing Agency:

Andean Development Corporation in coordination with the Ministry of Agriculture, Ecuador

Starting Date and Duration:

March 1992 (planned)  
1 year

This 1-year project will prepare and convene a sub-regional seminar to promote appropriate policies and measures for the development of sustained forest industries in the Andean countries.

The contractual agreement for project implementation is expected to be finalized early in 1992.

- (24) 160/91 Rev.1 (I) International Workshop on Improved Utilization of Timber Resources in Southeast Asia

Budget and Funding Sources:

|                  |                     |
|------------------|---------------------|
| Total            | \$ 141,760          |
| Govt. of Japan   | \$ 121,360          |
| IUFRO Division V | \$ 10,200 (in kind) |
| Other donors     | \$ 10,200 (in kind) |

Implementing Agency:

Forest Research Institute Malaysia (FRIM) with assistance of IUFRO and ITTO

Starting Date and Duration:

March 1992 (planned)  
6 months

This project will plan and convene an international workshop on improved utilization of timber resources in Southeast Asia. The workshop will provide a forum for researchers and representatives of donor agencies to discuss and prepare a work plan and proposals for the implementation of tropical timber research in the four priority research areas identified by IUFRO in a regional review paper.

The contractual arrangements for the project implementation are expected to be finalized in early 1992.

- (25) 47/88 Rev. 2 (I) Utilization of Lesser Used Species as Alternative Raw Materials for Forest-Based Industries

Budget and Funding Sources:

|                          |                        |
|--------------------------|------------------------|
| Total                    | \$ 2,263,993           |
| Govt. of the Philippines | \$ 1,500,000 (in kind) |
| ITTO                     | \$ 763,993             |

Implementing Agency:

The Forest Products Research and Development Institute (FPRDI)

Starting Date and Duration:

April 1992 (planned)  
5 years

This 5-year project will promote the utilization of 20-24 lesser-known species from the Philippines through research and dissemination of information on wood characteristics and technical properties, as well as by manufacturing and testing selected products. The following wood research sub-projects will be carried out:

- (i) field guide to the identification of important lesser-used Philippine timbers;
- (ii) physical and mechanical properties of lesser-known species;
- (iii) chemical properties of lesser-known species;
- (iv) natural durability of some lesser-known species;
- (v) sawmilling characteristics of some lesser-known species;
- (vi) seasoning characteristics of some lesser-used species;



- (vii) preservative treatment of lesser-known species;
- (viii) machining properties of some lesser-known species;
- (ix) gluing characteristics of some lesser-known species;
- (x) finishing properties of some lesser-known species;
- (xi) bending properties of some lesser-known species;
- (xii) pulping and paper properties of some lesser-known species;
- (xiii) rotary veneer cutting of some lesser-known species;
- (xiv) utilization of some lesser-known species for the manufacture of furniture;
- (xv) utilization of some lesser-known species for the production of assembled parquet flooring panels and textile implements;
- (xvi) development of wood cement boards from some lesser-known species;
- (xvii) utilization of some lesser-known species for power and communication poles;
- (xviii) utilization of lesser-known species for pallets;
- (xix) promoting selected FPRDI-developed/implemented lesser-known species utilization technologies; and
- (xx) promotion and transfer of developed technologies on the utilization of lesser-known species.

The approved research proposal is a revised version prepared and submitted taking into account the report on the ITTO-funded pre-project study entitled: "Appropriate Supply of Wood Raw Materials in Producing Countries with Dwindling Forest Resources: The Case of the Philippines." The study found that the country's 1990-2000 projected wood demand will be more appropriately met if lesser-known species from residual forests are also harvested and utilized. Accordingly, the pre-project study selected and recommended 20 to 24 lesser-known species to be studied and promoted in the Philippines wood industries and markets.

The contractual arrangements for project implementation are expected to be finalized early in 1992.

(26) 107/90 (I) Strategies for Sustainable Wood Industries in Sarawak

Budget and Funding Sources:

|                        |            |
|------------------------|------------|
| Total                  | \$ 497,372 |
| State Govt. of Sarawak | \$ 56,821  |
| ITTO                   | \$ 62,578  |

Implementing Agency:

Ministry of Resource Planning, State Government of Malaysia (through the Forest Department and the Sarawak Timber Industry Development Corporation)

Starting Date and Duration:

April 1992 (planned)  
13 months

This 13-month project will prepare a sector plan for the development of forest industries of Sarawak. The project will develop the proposed plan through the following steps:

- a) review and update market studies;
- b) determine the current (and currently proposed) capacity of the wood processing industry;
- c) determine forest management units and assess their production potential;

/...

- d) determine the product mix which will optimize the economic return to the State;
- e) recommend changes to enable the forest sector to produce the optimum product mix.

The contractual arrangements for the implementation of this project are expected to be finalized early in 1992.

### **4.3 Other Activities**

#### **4.3.1 *Market Review and Outlook***

In 1988 the ITTO decided to institute annual market and industry discussions to provide the opportunity for a broad exchange of views among its members, trade and industry associations and conservation NGOs, in addition to strengthening the role of the Council in its work of monitoring and reviewing the tropical timber situation in accordance with Article 28 of the ITTA.

The main theme of the 1991 Market Review and outlook was "Trends in the Trade and Tropical Timber Products in Latin America/Caribbean Regions." The structure of the 1991 Market Review is outlined in Section 2.3.2.

#### **4.3.2 *Review of ITTO Work on Lesser-Known Species***

A joint meeting of the Committees was convened during their Ninth Sessions to review ITTO policies and work program on lesser-known species. This joint review addressed all aspects of the question of lesser-known species (LKS), taking into account two recent ITTO pre-project reports: PPR 21/91 (F,D) "Conservation Concerns Relating to the Diversification of Species Extracted for Timber," and PPR 23/91 (M) "Study on the Conservation Status of Tropical Timbers in Trade", in addition to other relevant publications.

# ANNEX 1

## STATUS OF MEMBERS AS AT 31 DECEMBER 1991

| <u>Member</u>                       | <u>Provisional<br/>Signature</u> | <u>Provisional<br/>application</u> | <u>Ratification,<br/>accession (a),<br/>acceptance (A)<br/>approval (AA)</u> |
|-------------------------------------|----------------------------------|------------------------------------|--|
| Australia                           |                                  |                                    | 16 Feb 1988  |
| Austria                             |                                  |                                    | 6 Mar 1986 (a)   |
| Belgium/Luxembourg                  | 29 Jun 1984                      | 28 Sep 1984                        | 21 Feb 1986  |
| Bolivia                             | 1 Nov 1984                       | 25 Jun 1985                        |  |
| Brazil                              | 31 Mar 1985                      | 31 Mar 1985                        |  |
| Cameroon                            | 15 Apr 1985                      | 14 Jun 1985                        | 19 Nov 1985  |
| Canada                              |                                  |                                    | 21 May 1986 (a)  |
| China                               |                                  |                                    | 2 Jul 1986 (a)   |
| Colombia                            |                                  |                                    | 27 Mar 1990 (a)  |
| Congo                               | 7 Mar 1985                       |                                    | 28 Mar 1985  |
| Côte d'Ivoire                       | 27 Mar 1985                      | 27 Mar 1985                        |  |
| Denmark                             | 29 Jun 1984                      |                                    | 28 Sep 1984  |
| Ecuador                             | 31 Mar 1985                      | 31 Mar 1985                        | 19 Jan 1988  |
| Egypt                               | 31 Mar 1985                      | 31 Mar 1985                        | 16 Jan 1986  |
| European Economic Community         | 29 Jun 1984                      | 29 Mar 1985                        |  |
| Finland                             | 10 May 1984                      |                                    | 13 Feb 1985  |
| France                              | 29 Jun 1984                      | 29 Jun 1984                        | 6 Aug 1985 (AA)  |
| Gabon                               | 26 Sep 1984                      | 19 Mar 1985                        | 18 Nov 1988  |
| Germany                             | 29 Jun 1984                      | 29 Jun 1984                        | 21 Mar 1986  |
| Ghana                               | 29 Mar 1985                      |                                    | 29 Mar 1985  |
| Greece                              | 29 Jun 1984                      | 28 Nov 1984                        | 26 Jul 1988  |
| Honduras                            | 27 Sep 1984                      | 29 Mar 1985                        |  |
| India                               |                                  |                                    | 19 Feb 1986 (a)  |
| Indonesia                           | 13 Jun 1984                      |                                    | 9 Oct 1984   |
| Ireland                             | 29 Jun 1984                      |                                    | 4 Oct 1984   |
| Italy                               | 29 Jun 1984                      |                                    | 29 Mar 1985  |
| Japan                               | 28 Mar 1984                      |                                    | 28 Jun 1984 (A)  |
| Liberia                             | 8 Mar 1984                       |                                    | 29 Mar 1985  |
| Malaysia                            | 14 Dec 1984                      |                                    | 14 Dec 1984  |
| Nepal                               |                                  |                                    | 3 Jul 1990 (a)   |
| Netherlands                         | 29 Jun 1984                      | 20 Sep 1984                        | 29 May 1987 (A)  |
| Norway                              | 23 Mar 1984                      |                                    | 21 Aug 1984  |
| Panama                              |                                  |                                    | 3 Mar 1989 (a)   |
| Papua New Guinea                    |                                  |                                    | 27 Nov 1986 (a)  |
| Peru                                | 31 Mar 1985                      | 31 Mar 1985                        |  |
| Philippines                         | 31 Mar 1985                      | 31 Mar 1985                        |  |
| Portugal                            |                                  |                                    | 3 Jul 1989 (a)   |
| Republic of Korea                   |                                  |                                    | 25 Jun 1986 (a)  |
| Spain                               | 27 Feb 1985                      | 24 Apr 1985                        | 1 Apr 1986   |
| Sweden                              | 23 Mar 1984                      |                                    | 9 Nov 1984   |
| Switzerland                         | 30 Apr 1985                      |                                    | 9 May 1985   |
| Thailand                            |                                  |                                    | 9 Oct 1985 (a)   |
| Togo                                |                                  |                                    | 8 May 1990 (a)   |
| Trinidad & Tobago                   | 29 Apr 1985                      |                                    | 9 May 1986   |
| Union of Soviet Socialist Republics | 28 Mar 1985                      |                                    | 20 May 1985 (A)  |
| United Kingdom                      | 29 Jun 1984                      |                                    | 18 Sep 1984  |
| United States of America            | 6 Apr 1985                       | 26 Apr 1985                        | 25 May 1990 (A)  |
| Zaire                               |                                  |                                    | 20 Nov 1990 (a)  |

## ANNEX 2

### SUSTAINABLE MANAGEMENT OF TROPICAL FORESTS

Sustainable forest management is the process of managing permanent forest land to achieve one or more clearly specified objectives of management with regard to the production of a continuous flow of desired forest products and services without undue reduction of its inherent values and future productivity and without undue undesirable effects on the physical and social environment.

#### Criteria for Sustainability

##### Introduction

The list of Criteria and Examples of Indicators below is neither exhaustive nor exclusive. Moreover, all of the Examples of Indicators do not need to be measured to establish sustainability or the degree to which it has been achieved.

It must be emphasized that determinations of sustainability and, therefore, use of the following list must be specific to each nation or each management unit.

##### Sustainability at the National Level

#### Criteria

#### Examples of Indicators

##### The Forest Resource Base

- Comprehensive land use planning and provision for the Permanent Forest Estate (PFE).
- Present area of the PFE in relation to national goals and targets.
- Plantation establishment targets, present age class distributions, and annual planting regimes.
- Areas of Protection Forests and Production Forests within the PFE.
- The representativeness of the protected areas network and the current or planned reservation programme.

##### The Continuity of Flow of Forest Products

- National production statistics over time.
- Documentation of logging (area) histories over time.
- Proposed cutting cycle lengths for major forest types, and standard concession lengths.
- Regulation of initial harvesting rates in relation to defined cutting cycles and net area of production forest.
- Regulation of subsequent harvesting in relation to defined cutting cycles, increment data and the net area of production forest.
- Steps taken to harmonize the first and subsequent cutting cycles and manage the transition from the first to the second cutting cycle.
- Wood production targets over time from various sources.
- The availability of silvicultural prescriptions for the major forest types.

|                                    |   |
|------------------------------------|---|
| The Level of Environmental Control | <ul style="list-style-type: none"> <li>- Management prescriptions for other non-production components of the PFE.</li> <li>- The availability of engineering, watershed protection and other environmental management prescriptions for production forests.</li> <li>- Availability of environmental assessment procedures.</li> </ul>  |
| Socio-Economic Effects             | <ul style="list-style-type: none"> <li>- Employment patterns and trends.</li> <li>- Income generation and distribution patterns.</li> <li>- National revenue and expenditure budgets for forest management.</li> <li>- Availability of environmental assessment procedures.</li> </ul>  |
| Institutional Framework            | <ul style="list-style-type: none"> <li>- Existence of a national forest policy.</li> <li>- The relationship of national policy to ITTO Guidelines.</li> <li>- Adequacy of the legislative framework to implement national forest policies and management plans.</li> <li>- Adequacy of legislation to regulate harvesting and manage specific instruments eg, concession agreements.</li> <li>- Adequacy of human and financial resources to meet legislative and administrative responsibilities in sustainable forest management.</li> <li>- Community consultation.</li> <li>- Existence of management plans and provisions for their implementation.</li> </ul> |

### Sustainability at the Level of the Forest Management Unit

| <u>Criteria</u>                     | <u>Examples of Indicators</u>  |
|-------------------------------------|--|
| Resource Security                   | <ul style="list-style-type: none"> <li>- The legal establishment of forest areas or management units.</li> <li>- Existence of a management plan.</li> <li>- Clear demarcation of boundaries in the field.</li> <li>- The presence or absence of illegal exploitation and encroachment.</li> <li>- The duration of concession agreements.</li> </ul>  |
| The Continuity of Timber Production | <ul style="list-style-type: none"> <li>- The presence of clear, official harvesting rules.</li> <li>- Long term soil productivity.</li> <li>- A pre-logging stand inventory.</li> <li>- The number of trees and/or volume of timber per ha harvested.</li> <li>- Provision for monitoring the residual growing stock after logging.</li> <li>- Records of annual product outputs over time.</li> <li>- Net productive area.</li> <li>- Records of annual areas cut over time.</li> </ul> |
| The Conservation of Flora and Fauna | <ul style="list-style-type: none"> <li>- Protection of eco-systems in the concession or management unit.</li> <li>- The extent of vegetation disturbance after logging.</li> </ul>   |

- |   |  |
|---|--|
| An Acceptable Level of Environmental Impact | - Extent of soil disturbance.<br>- Extent and spatial distribution of riparian and other watershed protection areas<br>- The extent and severity of soil erosion<br>- Provision for protection of bodies of water. |
| Socio-economic Benefits                     | - The number of people employed.<br>- The nature and extent of benefits from forestry activities.  |
| Planning and Adjustment to Experience       | - Community consultation.<br>- Arrangements for Forest Management to take into account traditional forest utilization.   |

-----

### ANNEX 3

#### GENERAL TROPICAL TIMBER MARKET STATEMENT 1991

ITTO is an effective forum to monitor trade and assess the pattern of changes in the international market and their implications for sustainable development of tropical forest resources.

The theme of the 1991 market discussions was Trends in the Trade of Tropical Timber Products in the Latin America/Caribbean Region.

The review paper [ITTC(X)/3] is the most wide ranging and on an even sounder base than previous years. This is based on data to the end of 1989. It is hoped that countries will take heed of the exhortations to provide both the forecasting review and country market statements accurately and promptly. Market transparency cannot be achieved unless this co-operation is ensured.

The figures given in last year's statement are incorrect. The revised figures are as follows:

#### EXPORTS FROM ITTO MEMBERS (units x 1 million m3)

|          |      | 1990 MARKET<br>STATEMENT | 1990 MARKET<br>FORECAST | 1990 REVISED<br>FIGURES |
|----------|------|--------------------------|-------------------------|-------------------------|
| LOGS     | 1988 | 22.9                     |                         | 25.43                   |
|          | 1989 | 20.5                     | 24.00                   | 25.75                   |
| SAWNWOOD | 1988 | 9.33                     |                         | 9.22                    |
|          | 1989 | 9.42                     | 10.00                   | 9.51                    |
| PLYWOOD  | 1988 | 7.50 (EST)               |                         | 8.73                    |
|          |      | 8.79 (AMENDED)           |                         |                         |
|          | 1989 | 10.00                    |                         | 9.56                    |

This revision is due to the lack of prompt and accurate information from some members.

The value of exports in 1990 is likely to be about US\$8 billion, similar to the previous year. This latest figure gives an increase of 15% over 1988, not 10.5% as estimated. Although accurate figures on value added products are unavailable, largely due to varying customs treatment in member countries, indications are that there was a marked increase in exports in 1990. This increase in value added goods illustrates the continuing desire of the producing countries to increase domestic processing in order to increase revenue and improve employment conditions and prospects for their people.

In some countries in the Asia/Pacific region export taxes are being increased to encourage consumers towards value added products and/or to generate funds to improve forest management. In Brazil quotas and taxes are being introduced for similar reasons and to preserve high quality timbers.

The move towards value added products is being followed in other regions but has been less successful in the development of markets for these products for a variety of reasons including lack of technology.

The reaction of the consumers to this change was highlighted in the presentations from the U.S.A. and Europe. The presentation on Europe highlighted the swing away from a demand-led market for tropical timber to one where the limited resources available from tropical areas will dictate the supply. The increasing local (regional) demand in tropical areas will also reduce the volume available on the international market.

It is essential that producer countries realize that the exports of value added products cannot take over the market completely. There will always be a requirement for sawnwood planed and kiln dried and used as such. The total market is therefore a mixture of machined, profiled and otherwise processed wood together with the sawnwood.

The changes in the pattern of supply will result in re-structuring of the traditional market chain. Pressure to sell value added products will particularly affect the status of the distributors/manufacturers.

It must be realized that in essence the trade is in a free market situation but tariffs and preferences particularly in their variance can cause problems and discriminate against a free flow of trade. This matter should be investigated.

On a global basis the general economic situation could only be considered turbulent. A general recession in many areas existed, influenced by the massive structural changes taking place in Eastern Europe, the Gulf War, and high inflation levels in some countries. Specifically, Japan increased its annual GNP whilst in the United States a marked recession was noted in the fourth quarter. Most EEC countries also reported reduced economic activity. In Germany there is great disparity between the two regions. In the Western part overall economic activity increased markedly in the fourth quarter. In the Eastern part the structural adjustment provided difficulties. In the Netherlands, despite a growth in manufacturing and GNP, there was a decrease in the construction sector which caused a fall in consumption leading to overstocking which had an effect on the EEC market overall. The environmental issues continue to maintain a high profile. There is however a marked improvement towards constructive dialogue in a few countries.

In the U.K. the timber trade (through its Forest Forever Committee) and the WWF are moving towards an agreed environmental policy for timber trade companies. In the U.K. also a new body called the Tropical Forest Forum has been formed.

This enables all those interested in tropical forest matters to meet in an endeavour to reach consensus on the way forward.

In the U.S.A. the IHPA has sponsored the Tropical Forest Foundation which includes industry, scientists, foresters and environmental NGOs in regular meetings to discuss tropical forest problems and endeavours to develop solutions. Also in the U.S.A. there are legislative proposals drafted for consideration by the U.S.A. Congress which the timber trade considers may inhibit the tropical hardwood market.



## ANNEX 4

### SCHEDULE OF OFFICAL TRAVEL AND PARTICIPATION AT CONFERENCES

#### 1. Administration

##### **Executive Director**

- |                        |   |  |
|------------------------|---|--|
| 3 - 16 January 1991    | - | Preparations for the Ninth Session of the ITTC and VIIth Sessions of the Permanent Committees and consultations with relevant authorities in Quito, Ecuador. Visited Brazil for informal consultations on work plans and activities. |
| 18 - 24 March 1991     | - | Attended Meeting of Heads of U.N. Agencies on Increasing Co-ordination concerning Climate Change, Biodiversity and Forestry issues in Geneva, Switzerland  |
| 4 - 9 March 1991       | - | Attended and addressed IHPA's 35th Annual International Convention in Palm Springs, California, U.S.A.   |
| 29 April - 8 May 1991  | - | Consultations with Government authorities in Indonesia and other project activities.   |
| 22 May - 13 June 1991  | - | Tenth ITTC Session in Quito, Ecuador.  |
| 25 June - 2 July 1991  | - | Visited China for consultations with relevant authorities.   |
| 7 - 19 July 1991       | - | Visited Jakarta for consultations and to finalise preparations for World Plywood Conference to be held in Jakarta.   |
| 13 - 17 August 1991    | - | Visited Cairo, Egypt to hold consultations with Government authorities.  |
| 17 - 22 August 1991    | - | Visited The Hague for consultations with Government authorities and consultation on ITTO projects.   |
| 15 - 30 September 1991 | - | Attended the Tenth World Forestry Congress in Paris and the Expert Panel to Define General Criteria for and Measurement of Sustainable Tropical Forest Management in The Hague.  |
| 12 - 17 November 1991  | - | Visited Sarawak, Malaysia for consultations on preparations for various projects implementation.   |
| 8 - 22 December 1991   | - | Attended the Plywood Conference in Jakarta; and consultations with Government authorities in Kuala Lumpur.   |

##### **Assistant Director for Management Services**

- |                  |   |   |
|------------------|---|---|
| 22 - 25 January  | - | Attended the Asia-Pacific Conference on Climate Change (IPCC and Japan Environment Agency) in Nagoya, Japan.                  |
| 18 - 20 February | - | Presented introductory ITTO module to first PD 73/89 Workshop on Project Identification and Formulation in Bangkok, Thailand. |

- |                  |   |  |
|------------------|---|--|
| 21 - 22 February | - | Assisted Secretariat in servicing the First Expert Panel on Technical Appraisal of Project Proposals held in Kuala Lumpur, Malaysia. |
| 17 May - 10 June | - | Preparations for, and assist at ITTC(X) in Quito, Ecuador.   |
| 14 - 18 June     | - | Presented introductory ITTO module to second PD 73/89 Workshop on Project Identification and Formulation in Abidjan, Côte d'Ivoire.  |
| 19 - 21 June     | - | Presented paper to the EC/ACP Forum on International Trade in Tropical Timber in Trieste, Italy.                                     |
| 3 - 4 September  | - | Discussions with ITTO's Provident Fund Brokers J. van Breda & Co. in Antwerp, Belgium.   |
| 5 - 7 September  | - | Attended the Seminar on the Second Account of the Common Fund for Commodities in Amsterdam, The Netherlands.                         |
| 8 September      | - | Discussions with ITTO's French translator in Reading, United Kingdom.  |
| 13 - 22 December | - | Preparations for ITTC(XII) in Yaoundé, Cameroon.   |

**Finance/Administrative Officer for Management Services**

- |                     |   |   |
|---------------------|---|---|
| 3 - 16 January 1991 | - | Accompanied the Executive Director in connection with preparations for the Ninth Session of the ITTC and VIIIth Sessions of the Permanent Committees and consultations with relevant authorities in Quito, Ecuador. |
|---------------------|---|---|

**2. Economic Information and Market Intelligence**

**Assistant Director**

- |                    |   |  |
|--------------------|---|--|
| 14 - 19 January    | - | Attended Steering Committee Meeting to Prepare ITTO-Sponsored Technical Workshop to Explore Forestry Options for Sustainable Forest Management, Bangkok, Thailand. |
| 21 - 22 February   | - | Attended High-Level Consultations on Revamping TFAP, Geneva, Switzerland.  |
| 6 - 7 March        | - | Attended Informal Consultations organized by Canada and Sweden on Possible Measures for a Global Convention on Forests, Geneva.                                    |
| 12 - 14 March      | - | Attended Meeting of IPCC Working Group on Forests, Geneva.   |
| 18 March - 5 April | - | Participated in Second Session of the Preparatory Committee for UNCED, Geneva.   |

- 24 - 29 April - Participated in ITTO-Sponsored Technical Workshop to Explore Forestry Options for Sustainable Forest Management, Bangkok.
- 24 May - 6 June - Attended and assisted in Organizing the Eighth Session of Permanent Committees and Tenth Session of the ITTC, Quito, Ecuador.
- 10 - 14 June - Participated in TFAP Forestry Advisors Meeting in Hull, Canada.
- 12 August - 4 September - Participated in Third Session of the Preparatory Committee for UNCED, Geneva.
- 12 - 13 September - Attended High-Level Consultations on Revamping TFAP, Paris, France.
- 16 - 26 September - Attended Tenth World Forestry Congress, Paris.
- 27 - 29 September - Attended Meeting of Expert Panel to Explore Methods of Defining the Criteria for and Measurement of Sustainable Forest Management, Hague, Netherlands.

#### Statistician

- 2 - 24 January - Visited Forestry Canada in Ottawa for general discussions and review of PD 66/89 (M).
- Visited SBH in Wageningen, Netherlands to review progress in PD 14/87 (M).
- Visited FAO/ECE in Geneva for general discussions and review of PD 66/89 (M).
- Visited ITC in Geneva to review progress in PD 7c/87 Rev.1 (M).
- Visited UNCTAD and GATT in Geneva for general discussions.
- Visited FAO in Rome to discuss implementation of PD 118/90 (M).
- Visited MTIB, Forest Research Institute and Forestry Department in Kuala Lumpur for general discussions.
- 23 May - 12 June - Attended Tenth Session of ITTC in Quito, Ecuador.
- 1 - 20 October - Visited Chinese Academy of Forestry in Beijing to review progress in PD 42/88 Rev.1 (M) and PD 124/91 Rev.1 (M).
- Presented paper and attended US/Korean sponsored Symposium "International Trade in Forest Products around the Pacific Rim" Seoul, Korea.
- Assisted in implementation of first phase of PD 118/90 (M) at the University of Dschang, Cameroon.

- 9 - 16 December - Presented paper and attended ITTO sponsored "World Conference on Tropical Plywood in the Asia-Pacific Region" PD 70/89 (I) - Jakarta, Indonesia.

3. Reforestation and Forest Management

**Assistant Director for Reforestation and Forest Management**

- 24 January - 7 February 1991 - Visit Port Moresby to participate in Project Formulation Mission to Papua New Guinea.
- 16 - 23 February 1991 - Assisted Secretariat in servicing the First Expert Panel on the Technical Appraisal of Project Proposals held in Kuala Lumpur.
- 31 March - 5 April 1991 - Visited Yaoundé, the Sud-Bakundu Forest Reserve and Centre Univisitaire de Dschang in Cameroon for discussions on various ITTO projects and activities.
- 8 - 13 April 1991 - Provided Secretariat Service to the Plantations Working Group Meeting held at the Institute of World Forestry and Ecology at the Federal Research Centre for Forestry and Forest Products in Hamburg, Germany.
- 26 April - 1 May 1991 - Visit Indonesia for discussions re initiation of PD 89/90 (F).
- 2 - 4 May 1991 - Visit Kuching, Sarawak, Malaysia for discussions on initiation of projects arising from ITTO Sarawak Mission.
- 14 - 22 May 1991 - Visit Rio Branco, Brazil for Seminar, Project Steering Committ Meeting and review of PD 24/88 (F).
- 23 May - 15 June 1991 - Tenth Session ITTC in Quito, Ecuador.
- 22 - 26 July 1991 - Conference of Senior Foresters, Yokohama.
- 8 - 24 August 1991 - Visited Bolivia for Project Review Mission for PD 34/88 Rev.1 (F,I).
- 17 September 1991 - Visited Kuala Lumpur, Malaysia en route to London for discussions re printing of ITTO Action Plan.
- 20 - 22 September 1991 - Visited Oxford Forestry Institute for discussions with Dr. T. Synnott re Report of the Project Review Mission for PD 34/88 Rev.1 (F,I).
- 23 - 26 September 1991 - Visited Paris for Tenth World Forestry Congress. Presented paper on ITTO Guidelines to IUFRO Satellite Meeting, 23 September 1991.
- 27 - 29 September 1991 - Visited the Hague to assist Secretariat in servicing the Expert Panel to Define General Criteria for and Measurement of Sustainable Tropical Forest Management.

- 30 September - 5 October 1991 - Visit Gruyeres, Switzerland to provide Secretarial support for the Working Group Meeting on the Conservation of Biological Diversity in Production Tropical Forests.
- 9 - 11 October 1991 - Visited Madras, India for Project Steering Committee Meeting for PD 157/91 Rev.2 (F).
- 22 October 1991 - Visited Tokyo for Steering Committee Meeting for PD 71/89 Rev.1 (F).
- 11 - 15 November 1991 - Visited Rio Branco, Brazil for Regional Seminar and Project Steering Committee Meeting for PD 24/88 (F).

#### **Ecologist**

- 6 - 16 February 1991 - Visited Gland, Switzerland to finalize draft report on ITTO Pre-Project on Realistic Strategies for the Conservation of Biological Diversity.

#### **Projects Manager**

- 22 October 1991 - Visited Tokyo for Steering Committee Meeting for PD 71/89 Rev.1 (F).
- 17 - 21 November 1991 - Visited Bangkok for Regional Workshop conducted as part of PD 71/89 Rev.1 (F).
- 12 - 13 December 1991 - Visited Douala, Cameroon for African Regional Review Workshop for PD 86/90 (F).
- 17 - 21 December 1991 - Visited Yaoundé, Cameroon re arrangements for Twelfth ITTC Session.

#### **4. Forest Industry**

##### **Assistant Director**

- 22 - 25 January 1991 - Attended the Tropical Forest Action Plan Roundtable Type III in Quito, Ecuador.
- 4 - 6 February 1991 - Held consultations with forestry officials in Panama City, Panama.
- 15 - 16 April 1991 - Represented ITTO in the Second Training Workshop convened under ITTO project PD 4/87 Rev.1 (I), Panama City, Panama.
- 29 May - 6 June 1991 - Tenth Session of ITTC and Eighth Session of the Permanent Committee on Forest Industry, in Quito, Ecuador.
- 8 - 10 July 1991 - Visited Jakarta to hold consultations with APKINDO officials and to participate in a preparatory meeting to organize the World Conference on Tropical Plywood under ITTO Project PD 70/89 Rev.2 (I).

- 14 - 19 July 1991 - Assisted the Forestry Department of Sabah, Malaysia in the reformulation of project proposal PD 163/91 Rev.1 (I), in Sabah and Peninsular Malaysia, Malaysia.
- 26 August - 2 September 1991 - Held consultations with forestry officials in Brasilia, Brazil.
- 5 - 7 September 1991 - Attended a TFAP Roundtable for Central America in San Pedro Sula, Honduras.
- 17 - 25 September 1991 - Attended the Tenth World Forestry Congress and participated in the ITTO Satellite Session, Paris, France.
- 26 September - 1 October 1991 - Assisted the meeting of the Expert Panel on Possible Methods of Defining General Criteria for and Measurement of Sustainable Tropical Forest Management, the Hague, Netherlands.
- 3 - 6 November 1991 - Participated in the joint FINNIDA/FTP/ITTO/FAO review of project PD 4/87 Rev.1 (I) Training in Planning and Management of Forest Industries in Developing Countries, Helsinki, Finland.
- 10 - 15 December 1991 - Assisted in the organization and attended the World Plywood Conference on Tropical Plywood under project PD 70/89 Rev.1 (I), Jakarta, Indonesia.
- 16 - 17 December 1991 - Participated in a review meeting of Project PD 11/87 (I) Malaysian Timber Industry Board and Timber Industry Upgrading, Kuala Lumpur, Malaysia.

#### Projects Manager

- 6 - 21 January 1991 - Participated in the Workshop for Establishing a Network of Genetic Resources Centers for Adapting to Sea-level Rise, held in Madras, India.
- Held consultations at FAO (Rome, Italy) Department of Operations with a view to expedite FAO's activities as a sub-contractor of project PD 60/89 (F,M,I) "Fellowship and Related Assistance Program to Promote Tropical Forest Sector Development".
- Attended and addressed the Training Workshop under project PD 4/87 Rev.1 (I) "Training in Planning and Management of Forest Industries in Developing Countries" held in Accra, Ghana.
- 24 May - 10 June 1991 - Tenth Session of ITTC and Eighth Session of the Permanent Committee on Forest Industry, in Quito, Ecuador.
- 9 - 16 December 1991 - Assisted in the organization and attended the World Plywood Conference on Tropical Plywood under project PD 70/89 Rev.1 (I), Jakarta, Indonesia.

ANNEX 5

CONTRIBUTIONS TO THE SPECIAL ACCOUNT  
(in U.S. dollars)

|  | 1991             | 1990             |
|--|------------------|------------------|
| <b>PRE-PROJECT SUB-ACCOUNT:</b>                |                  |                  |
| Australia                                      |                  | \$ 50,000.00     |
| Finland  |                  | \$ 18,226.46     |
| Japan  |                  | \$ 1,291,550.96  |
| The Netherlands                                |                  | \$ 60,000.00     |
| Norway   | \$ 222,666.36    | \$ 5,000.00      |
| Switzerland                                    | \$ 70,000.00     |                  |
| United Kingdom                                 | \$ 100,835.00    | \$ 135,835.00    |
|  |                  |                  |
| TOTAL:   | \$ 393,501.36    | \$ 1,560,612.42  |
| <b>PROJECT SUB-ACCOUNT:</b>                    |                  |                  |
| Denmark  |                  | \$ 200,000.00    |
| France   | \$ 197,086.53    |                  |
| Japan  | \$ 9,636,130.72  | \$ 25,558,860.04 |
| The Netherlands                                | \$ 110,000.00    | \$ 367,526.85    |
| Norway   | \$ 232,721.50    | \$ 57,383.80     |
| Switzerland                                    | \$ 336,155.00    | \$ 671,775.50    |
| United Kingdom                                 |                  | \$ 50,000.00     |
| United States of America                       | \$ 954,000.00    |                  |
| Japan Lumber Importers Association (JLIA)      | \$ 78,809.00     | \$ 56,830.00     |
| Japan Plywood Manufacturers Association (JPMA) |                  | \$ 30,000.00     |
| Ito Yokado Corp.                               | \$ 382,848.39    |                  |
| Private - Christian Association Japan          | \$ 279.31        |                  |
|  |                  |                  |
| TOTAL:   | \$ 11,928,030.45 | \$ 26,992,376.19 |

Note: Only contributions actually received during the year have been included in this Annex. Part of the contributions from Japan to the Project Sub-Account was later earmarked for funding Pre-Projects or Activities and was transferred to the Pre-Project Sub-Account.

# ANNEX 6

## ADMINISTRATIVE BUDGET - 1992

### Estimated Expenditures for the Financial Year 1992 (in United States dollars)

[Post Adjustment Multiplier: 145.2; U.N. Rate of Exchange US\$1.00 = Yen 138]

|  | <u>Estimated Total</u> |
|--|------------------------|
| <b>A. SALARIES AND BENEFITS</b>                    |                        |
| A1. Salaries .....                                 | 1,076,076.00           |
| A2. Staff Assessment .....                         | 96,632.00 */           |
| A3. Post Adjustment .....                          | 838,404.00             |
| A4. Rental Subsidy .....                           | 84,203.00              |
| A5. Education Grant (incl. Education Travel) ..... | 141,110.00             |
| A6. Dependency Allowance .....                     | 63,243.00              |
| A7. Home Leave .....                               | 58,710.00              |
| A8. Language Allowance .....                       | 4,000.00               |
| A9. Overtime .....                                 | 30,000.00              |
| A10. Mobility & Hardship Allowance .....           | 23,137.00              |
| A11. Separation Benefits .....                     | 24,182.00              |
| A12. Removal Costs .....                           |                        |
| A13. Repatriation/Recruitment Travel .....         |                        |
| Component Total:                                   | \$2,343,065.00         |
| <b>B. INSTALLATION COSTS</b>                       |                        |
| B1. Assignment Grant .....                         | 58,620.00              |
| B2. Lumpsum Benefit .....                          | 24,221.00              |
| Component Total:                                   | \$82,841.00            |
| <b>C. OFFICIAL TRAVEL</b>                          |                        |
| C1. Transportation/Tickets .....                   | 151,900.00             |
| C2. DSA & Travel Expenses .....                    | 77,250.00              |
| Component Total:                                   | \$229,150.00           |
| <b>D. SOCIAL SECURITY</b>                          |                        |
| D1. Provident Fund .....                           | 197,044.00             |
| D2. Accident/Health Insurance .....                | 18,737.00              |
| D3. Japanese National Scheme .....                 | 42,835.00              |
| Component Total:                                   | \$258,616.00           |

\*/ Applied to Japanese Staff only, and payable by Japan (not included in total).



|                  |   | <u>Estimated Total</u>       |
|------------------|---|------------------------------|
| E.               | SPECIAL ACTIVITIES                              |                              |
| E1.              | Consultants .....                               | 80,000.00                    |
| E2.              | Workshops and Meetings .....                    | 50,000.00                    |
| E3.              | Other Activities .....                          | —                            |
| Component Total: |   | <u>\$130,000.00</u>          |
| F.               | DATA PROCESSING                                 |                              |
| F1.              | Computer Software and Servicing .....           | 23,000.00                    |
| F2.              | Communications, User Charges and Supplies ..... | 35,000.00                    |
| F3.              | Training and Staff Development .....            | 7,000.00                     |
| Component Total: |   | <u>\$65,000.00</u>           |
| G.               | OTHER COSTS                                     |                              |
| G1.              | Communications .....                            | 75,000.00                    |
| G2.              | Publications .....                              | 110,000.00                   |
| G3.              | Transport .....                                 | 30,000.00                    |
| G4.              | Library .....                                   | 20,000.00                    |
| G5.              | Supplies .....                                  | 65,000.00                    |
| G6.              | Hospitality .....                               | 20,000.00                    |
| G7.              | Bank Charges .....                              | 25,000.00                    |
| G8.              | Audit .....                                     | 40,000.00                    |
| G9.              | Miscellaneous .....                             | 10,000.00                    |
| Component Total: |   | <u>\$395,000.00</u>          |
| H.               | COUNCIL MEETINGS                                |                              |
| H1.              | Costs not met by Japan .....                    | 20,000.00                    |
| Component Total: |   | <u>\$20,000.00</u>           |
| I.               | COSTS MET BY JAPAN                              |                              |
| I1.              | Office, Equipment, Utilities .....              | **/                          |
| I2.              | Council Meetings .....                          | **/                          |
| I3.              | Initial Travel .....                            | **/                          |
| I4.              | Removal Costs .....                             | **/                          |
| I5.              | Supporting Staff .....                          | **/                          |
| Component Total: |   | <u>**/</u>                   |
| J.               | CONTINGENCY RESERVE .....                       | --                           |
| Component Total: |   | <u>--</u>                    |
| GRAND TOTAL:     |   | <u><u>\$3,523,672.00</u></u> |

\*\*/ Paid directly or reimbursable by Japan based on actual expenditures.

**Estimated Receipts for the Financial Year 1992**  
**[Revised at the Eleventh Session of ITTC]**  
**(in United States dollars)**

|   | <u>Amount</u>          |
|---|------------------------|
| 1. Bank Interest earned in 1991 (Estimated)   | \$ 87,305.00           |
| 2. Interest levied on late contributions to previous year's budgets<br>received from Members          | \$ 2,167.00            |
| 3. Part of Funds from previous years' budgets, including payments<br>received from Members of arrears | \$ 350,000.00          |
| 4. Assessed Contribution of Members for 1992  | \$ 3,084,200.00        |
| TOTAL:  | <u>\$ 3,523,672.00</u> |
| [Equivalent to Total Estimated<br>Expenditures for 1992]  |                        |

## CONTRIBUTIONS OF MEMBERS TO THE ADMINISTRATIVE BUDGET FOR 1992

| PRODUCERS          | ASSESSED       |
|--------------------|----------------|
| BOLIVIA            | 46,263.00      |
| BRAZIL             | 239,026.00     |
| CAMEROON           | 43,179.00      |
| COLOMBIA           | 50,888.00      |
| CONGO              | 43,179.00      |
| COTE D'IVOIRE      | 43,179.00      |
| ECUADOR            | 33,926.00      |
| GABON              | 43,179.00      |
| GHANA              | 43,179.00      |
| HONDURAS           | 26,215.00      |
| INDIA              | 58,600.00      |
| INDONESIA          | 268,325.00     |
| LIBERIA            | 41,637.00      |
| MALAYSIA           | 226,689.00     |
| PANAMA             | 27,758.00      |
| PAPUA NEW GUINEA   | 50,889.00      |
| PERU               | 53,974.00      |
| PHILIPPINES        | 53,974.00      |
| THAILAND           | 37,010.00      |
| TOGO               | 41,637.00      |
| TRINIDAD & TOBAGO  | 26,215.00      |
| ZAIRE              | 43,179.00      |
| SUB-TOTAL:         | \$1,542,100.00 |
| CONSUMERS          | ASSESSED       |
| AUSTRALIA          | 29,300.00      |
| AUSTRIA            | 16,963.00      |
| BELGIUM/LUXEMBOURG | 41,637.00      |
| CANADA             | 23,132.00      |
| CHINA              | 43,179.00      |
| DENMARK            | 18,505.00      |
| EGYPT              | 21,589.00      |
| FINLAND            | 15,421.00      |
| FRANCE             | 75,563.00      |
| GERMANY            | 63,226.00      |
| GREECE             | 20,047.00      |
| IRELAND            | 18,505.00      |
| ITALY              | 60,142.00      |
| JAPAN              | 516,603.00     |
| NEPAL              | 15,421.00      |
| NETHERLANDS        | 69,395.00      |
| NORWAY             | 16,963.00      |
| PORTUGAL           | 26,216.00      |
| REP. OF KOREA      | 137,247.00     |
| SPAIN              | 38,553.00      |
| SWEDEN             | 16,963.00      |
| SWITZERLAND        | 16,963.00      |
| UNITED KINGDOM     | 86,358.00      |
| U.S.S.R.           | 20,046.00      |
| U.S.A.             | 134,163.00     |
| SUB-TOTAL:         | \$1,542,100.00 |
| GRAND TOTAL:       | \$3,084,200.00 |



ITTO

## INTERNATIONAL TROPICAL TIMBER COUNCIL

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6-14 May 1992  
Yaoundé, Cameroon

### DRAFT ANNUAL REPORT FOR 1991

(Item 18 of the Provisional Agenda)

#### ADDENDUM

The first paragraph of Section 1.6 "The Secretariat", on page 7 of the Draft Annual Report 1991 should be deleted and replaced with the following:

"Mr. Lachlan A.J. Hunter joined the ITTO Secretariat to head the Division of Management Services on 7 January 1991. Dr. Nils Svanqvist, Assistant Director of Reforestation and Forest Management since 2 July 1987, left the Secretariat on 10 March 1991. His position was taken by Mr. David S. Cassells on 8 January 1991. Mr. Arto E.K. Jalkanen, Programmer/Systems Analyst, completed his assignment on 31 August 1991. Funded by FINNIDA, Mr. Jalkanen served in the Secretariat since 27 February 1989. Dr. Per Wegge, Forestry Ecologist, who was funded by NORAD, left on 8 March 1991 when his term expired. Ms. Ji-Young Chang, Research Assistant in the Division of Reforestation and Forest Management, resigned on 20 October 1991 after working in the Secretariat for six months."