
Preface

The International Scene

Throughout 1997 IUFRO played a significant role in international initiatives and processes relating to forestry and forestry research. In particular members of the Executive Board represented the Union in a number of meetings of the United Nations Commission on Sustainable Development, its Intergovernmental Panel on Forests (subsequently replaced by the Intergovernmental Forum on Forests), various regional initiatives concerned with sustainable management of forests. In collaboration with CIFOR and FAO, IUFRO submitted a major paper on research needs to the IPF; also, in collaboration with CIFOR and FAO, plus the Governments of Austria and Indonesia, it is playing a leading role in the IPF processes, particularly the organization of an International Consultation on Research and Information Systems in Forestry (ICRIS) to be held in Austria during 1998. Throughout these activities IUFRO has sought to highlight the values and needs of research in supporting international policy makers. At the regional and national levels IUFRO officers similarly contributed to formulating and answering policy questions at a time when forestry and forest resources are the focus of major public and political attention.

Publicity and Information

Brochure

In parallel with these direct inputs to political activities, IUFRO in 1997 made strenuous efforts to publicize its own structure, functions and activities to member institutions, to other scientists and to the public. The Executive Board produced an attractive brochure that was launched at the World Forestry Congress in Antalya, Turkey, during October and that has been widely distributed. Copies in English, French and Spanish are now available from the Secretariat for use by IUFRO officers and member institutions in publicizing their own activities and IUFRO itself; an application form for membership and a summary of the IUFRO Strategy document are also included in the brochure and shortly individual leaflets will be available describing each Division.

Internet

The IUFRO home page was firmly established and expanded to describe all the significant structures and activities of the Union; it includes home pages for all Research Groups and Working Parties. Of IUFRO's 270 Units, 122 – 39 Research Groups and 83 Working Parties – participate actively in the establishment and maintenance of their respective home pages, and thus form the IUFRO

Network. The entire system is mirrored on servers in 6 countries to facilitate more rapid access regionally. The home page is widely used with 25 000 “hits” in the year (only in Vienna), many of which are from non-IUFRO members. A number of cross-links are provided to other significant institutions.

Publications

During 1997 IUFRO published 2 volumes in the IUFRO World Series and 4 Occasional Papers plus 4 issues of IUFRO News. These gave high visibility to the scientific activities and contributions of the Union while the World Series and Occasional Papers generated some income. Individual IUFRO units published proceedings of more than 50 meetings and the Executive Board agreed at its meeting in September to consider establishing a Proceedings Series in collaboration with a commercial publisher; this would enhance scientific and publishing quality, offer a simple and standard opportunity for publishing conference proceedings, and gain wider dissemination of IUFRO's research activities and results.

Research Activities

The heart of IUFRO's policy and programme is to encourage collaborative research of a high quality. During 1997 there were 64 meetings of different IUFRO units in 31 countries, of which 21 were developing or countries with economies in transition. 78 IUFRO units were involved in the meetings many of which have already resulted in significant publications. The work of the eight individual Divisions is described in the subsequent sections of this annual report but I take this opportunity of thanking all IUFRO officers for their continued efforts throughout the year.

SPDC

The Coordinator and Deputy Coordinator visited several donor agencies; several scientists from developing countries were supported to take part in scientific meetings. Throughout the year the SPDC sought a Deputy Coordinator for Africa and Dr. Atse Yapi was appointed near the end of the year for 15 months (starting with March 1998), with particular emphasis on collaboration with FAO in the creation of a forest research network for sub-Saharan Africa (FORNESSA). The President attended the meeting of the Asia Pacific Association of Forest Research Institutes (APAFRI) in Thailand and continued the dialogue establishing APAFRI as a regional chapter of IUFRO.

Membership

At the end of 1996 the Union had 724 member institutions; at the end of 1997 this number had dropped to 649. The Executive Board is concerned about the long-term decline in membership, the increasing number of delinquent member institutions, and mechanisms to reverse the decline and to encourage membership from a wider spectrum of institutions. The Executive Board established various Ad Hoc Committees to enquire into the reasons for any decline, methods for publicizing the benefits of IUFRO, and approaches to financing membership particularly for institutes in developing countries.

Executive Board

The core of IUFRO is clearly the science of its individual units. The Executive Board continued to seek the international and national support for these units, for their networking collaboration, and for the member institutions of the Union. Further, it aimed to provide the case for continued support to forestry research worldwide. The members of the Executive Board took on the additional heavy load of meetings and correspondence willingly and constructively. They represented the needs and aspirations of the Divisions and Regions and brought significant insights into the planning and management of the Union's activities. Members of the Executive Board and other IUFRO scientists played active parts in the World Forestry Congress; the President gave a keynote address at that Congress in which he highlighted the challenges for research as we approach the millennium.

One of the challenges for IUFRO is to organize an outstanding World Congress in the year 2000; the Executive Board and the Congress Organizing Committee continued the planning and organization of the Congress in Malaysia. One of the common activities among all Divisions and units until 2000 should be the preparation of state-of-knowledge reports on their particular disciplines. IUFRO should enter the new millennium with a clear and published understanding of what is known and what still needs to be known about forests and their wise management, use and conservation.

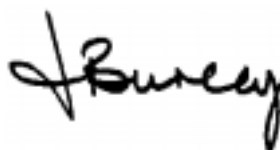
As part of this process, and also to assist it in other ways, the Executive Board established a number of Task Forces with very specific terms of reference. These Task Forces are not intended to duplicate or compete with the work of the Divisions but to provide overviews of the selected topics and to seek mechanisms for encouraging research including collaboration with non-IUFRO organizations and scientists. The two new Task Forces established in 1997 cover 'forest genetic resources' and 'forests and water'.

It has been my privilege and pleasure to lead this Executive Board and I thank them for their devoted efforts throughout the year.

Headquarters

IUFRO continues to owe a major debt of thanks to the Government of Austria for its support with premises and personnel in the Secretariat headquarters located in Vienna at the Austrian Federal Forest Research Centre. The value of these contributions to the Union cannot be over-emphasized. Thanks are also due to a number of donor agencies and international agencies that have supported IUFRO, including the SPDC, through financial or personnel contributions. These include the Canadian, Japanese and United States Governments, the USDA Forest Service, the Danish Agency DANIDA, Japanese and Taiwanese IUFRO Associations, CIFOR, FAO, ICRAF and ITTO.

The Secretary and all staff at headquarters have continued to provide totally dedicated and loyal service to the Union. The fact that IUFRO is now so widely respected as a leading organization in forestry research and in the forest policy processes is largely due to the efforts of the Secretariat staff and I thank them sincerely for their personal contributions and sacrifices.



*Prof J. Burley
President of IUFRO*

DIVISION 1 - SILVICULTURE

Division Level Activities in 1997

Division 1 comprises the study of forest and ecosystem management; stand establishment and treatment (including fertilization); agroforestry; biomass for energy; restoration of degraded sites; mountain zone and arid zone silviculture; tropical, boreal and temperate zone silviculture; and natural (extensive) and artificial (intensive) silvicultural systems.

The Division currently consists of 9 Research Groups (RG) with 30 Working Parties (WP) i.e. a total of 39 units. Division officers total about 100, with an additional 4 or so vacancies. The officers represent more than 40 nations. The Division's webpages are essentially complete, each unit with its own homepage, except for minor details. All working units are asked to provide updated and relevant information about unit activities to the homepage in order to keep the information relevant and up to date. The address is: <http://iufro.boku.ac.at/>.

Changes in Division Leadership during 1997

Dr. Les Whitmore was appointed new Vice-President for Administration of IUFRO and Deputy Coordinator Professor Lisa Sennerby-Forsse was elected new Division 1 Coordinator. She is Research Manager for Silviculture and Environment at the Swedish Forestry Research Institute, SkogForsk, in Uppsala, Sweden and adjunct professor in Silviculture and Short Rotation Forestry at the Swedish University of Agricultural Sciences. During the EEB meeting in Rome, Dr. John Parrotta was nominated and elected Deputy Coordinator of Division 1 to replace Prof. Sennerby-Forsse. Dr. John Parrotta is a senior scientist affiliated to the International Institute of Tropical Forestry in Rio Piedras, Puerto Rico.

Changes in Working Units during 1997

In 1997 the following changes took place within Division 1:

*WP 1.15.02:

"Agroforestry in the Tropics"; New Deputy Coordinator: T. Simons, to replace R. Leakey

*WP 1.15.05:

New Coordinator: Max Shelton, Australia

*WP 1.15.05:

New Deputy Coordinator: Peter Thorne, U.K.

*WP 1.17.02:

Change of name from "Restoration ecology" to "Temperate and Boreal Forest Restoration".

*WP 1.17.03:

Change of name from "Rehabilitation of degraded and secondary tropical forests" to "Tropical Forest Restoration".

*WP 1.15.05:

New Working Party established - "Tree Fodder". Officers to be proposed.

Report of 1997 Activities

Divisional meetings

RG 1.06.00: Workshop on Improvement & Silviculture of Oak, with emphasis on wood quality and intermediate treatment. Freiburg, Germany. 27 -30 July, 1997. Contact: H. Spiecker, E-mail: instww@sun1.ruf.uni-freiburg.de; Fax: +49-761-203-2740

RG 1.09.00: Enhancing the Productivity and Sustainability of Short Rotation Salicaceae. 5-8 August 1997. Syracuse, New York, USA. Co-sponsor with International Energy Agency and State University of New York. Contact: Daniel Robinson/Lawrence Abrahamson, Fax: 1-315-470-6934; E-mail: ceext@mailbox.syr.edu.

RG 1.14.00: Workshop/Field tour on Unevenaged Silviculture. Pacific Northwest, USA and British Columbia, Canada. Sept 15-26, 1997. Contact: W. Emmingham, e-mail: emminghamw@fsl.orst.edu.

RG 1.17.00: Symposium on Tropical Forest Restoration. Fort Lauderdale, Florida, USA. 12-15 November 1997. Co-sponsor with Society for Ecological Restoration. Contact: J. Parrotta, e-mail: j_parrotta@ups1.upr.clu.edu.

WP 1.15.01/1.15.03: Workshop on Agroforestry for Sustainable Land-use. 23-28 June, 1997. Montpellier, France. Contact: Daniel Auclair, Fax +33-67-59-3858; E-mail: auclair@cirad.fr.

WP 1.05.12/IBFRA: Disturbance in Boreal Forest Ecosystems; human impacts and natural processes. 4-8 August, 1997. Duluth, Minnesota, USA. Contacts: E. Schmucker, E-mail: ibfra97@worldweb.net

Interdivisional meetings

1.05.15/8.02/1.17: Managing Productivity in Plantation Forestry. Concepción, Chile. May 5-9, 1997. Contacts: Drs. Pedro Manzanares, Juan Schlatter, Jorge Toro and Hans Grosse, Tel (J. Schlatter): +56-63-221234

1.07.05/8.02.03: Conference on Tropical Secondary Forests: Science, People and Policy. Turrialba, Costa Rica, 10-12 November 1997. Contact: B. Finegan, CATIE, Costa Rica, E-mail: b.finegan@computo.catie.ac.cr.

Lisbeth Sennerby-Forsse

DIVISION 2 - PHYSIOLOGY AND GENETICS

Introduction

This introduction focuses on two important activities and a nomination: (1) the Division conference, (2) the Task Force on Management and Conservation of Forest Gene Resources, (3) a honorary membership.

Following a decision in 1996, a IUFRO Division 2 - FAO conference with the theme "Contribution of Genetics to the Sustained Management of Globe Forest Resources" will be held in 1998. The programme of this event is currently being finalized. Csaba Matyas, the scientific organizer, has appointed session chairpersons, who are enlisting potential session speakers. The date has been changed to August 22-28, 1998. The venue will be Friendship Hotel, Beijing, China. The chairperson of the Conference Organizing Committee is Prof. Jiang Zehui, with Prof. Hong Jusheng (Coordinator of Working Party 2.02.23) as the acting vice chairman. The third announcement will be sent out in early 1998.

IUFRO was invited as an observer to the 10th Session of FAO Panel of Experts on Forest Gene Resources (FGRs) in Rome in September. It was suggested that IUFRO could provide its expertise in two areas: create a Task Force on Forest Gene Resources (FGR) and work on the terminology connected with this topic (see SylvaVoc report). The principle of a Task Force has been accepted by the IUFRO Executive Board (EB) later in September. The Task Force will be established at the end of January 1998. Its terms of reference will be:

- 1 synthesize scientific information on:
 - scientific knowledge necessary for the conservation of FGRs: management of base and breeding populations, maintenance of representative diversity, including rare populations,
 - case studies on *in* and *ex situ* conservation,
 - interaction between human activity and integrity of FGRs: silviculture, forest operations, agroforestry, forest and landscape management, and others,
 - effect of environmental factors on the integrity of FGRs: insect pests, diseases, air pollution, climate change.
- 2 Organize sessions, particularly during the IUFRO World Congress 2000.
- 3 Prepare publications on all these items.
- 4 Report to the IUFRO EB twice a year in April and August until August 2000. The April 2000 report should make proposals for the continuation or the termination of the Task Force according to internal and external factors connected to the management and conservation for FGRs.

The coordination group will be chaired and co-chaired by Francis Yeh (Coordinator of Working Party 2.04.01) and

Veikko Koski (Deputy Coordinator of Working Party 2.04.00), respectively. It will include representatives of all IUFRO Divisions, some of these being linked with other interested organizations: FAO, IPGRI (International Plant Genetic Resources Institute) and CIFOR.

Howard Kriebel has become a Honorary Member of IUFRO. His award will be handed to him by Jeff Burley during the Division 2 conference. Howard is still very active within the IUFRO structure as (1) Coordinator of Working Party 2.02.15 "Five needle pines"; (2) Representative of Division 2 on the IUFRO Task Force on the Internet; (3) Division 2 web moderator; (4) member of the Ad Hoc Committee for Revision of the Statutes and Internal Regulations. Congratulations to the former Division 2 Coordinator!

Structure changes

2.02.00. Conifer breeding and genetic resources. After the resignation of one of the Deputy Coordinators, solutions are studied to help Csaba Matyas in the coordination of this Research Group. Note that Csaba is also in charge of the Division 2 Conference in Beijing, taking place in August 1998.

2.04.06 and 2.04.07. After their successful joint meeting in Quebec City (August 18-21, 1997) participants made two decisions: (1) to rename 2.04.06: "Molecular biology of forest trees", (2) to terminate 2.04.07 and to transfer its activities to 2.04.06.

2.08.01. Tropical species breeding and natural resources (New name). An entirely new team is coordinating this unit. Coordinator : Peter Roberts (South Africa), Deputy Coordinators: Terry Stanger (South Africa), Claudio Balocchi (Chile), Gary Hodge (USA), Mark Dieters (Australia), who is also Deputy Coordinator of Working Party 2.02.20, Eko Hardiyanto (Indonesia), Piare Lal (India), and David Boshier (United Kingdom).

2.08.03. Improvement and culture of eucalypts. The Deputy Coordinators Kevin Darrow and Paolo Dos Santos have been replaced by Jean-Pierre Boulet.

Report of activities

2.01.10. Xylem physiology. 35 members. Will be involved in Larix 98. See 2.02.07.

2.01.12. Canopy processes. Approximately 120 members. Held a workshop "Forests at the Limit: Environmental Constraints on Forest Function" in the Kruger National Park, South Africa, in May 1997. Will publish reviewed papers in a special issue of "Tree Physiology". Plans a meeting: "Canopy Processes in Boreal Forests" in Sweden, Finland, and Estonia, probably in May 1999.

2.01.13. Root physiology and symbiosis. More than 150 members. Plans a meeting on July 20-24, 1998, "The Supporting Roots: Structure and Function", in Bordeaux, France, with Alexia Stokes, Chair of Organizing Committee. Papers will be published as special issue of "Plant and Soil". Plans the Second International meeting "Dynamics of Physiological Processes of Woody Roots", Nancy, France, with Michel Chalot, Chair of the Organizing Committee, August 1999.

2.01.15. Whole plant physiology. 400 members. Plans a meeting "Process-based Models for Forest Management". 30 August-4 September 1998, sponsored by 4.01.09 and co-sponsored by 2.01.15, organized by Annikki Makela *et al.* Published: Cermak, J., N. Vygodskaya, and M. R. Kaufmann, "Abstracts of Book Literature on Forest Biology and Ecology" in the former USSR and former Czechoslovakia between 1965 and 1992.

2.02.05. Breeding and genetic conservation of Pacific North West Conifers. 140 members. Plans to co-sponsor the joint meetings of Northern American Forest Biology and Western Forest Genetic Association: "Frontiers of Forest Biology", Victoria, B.C., Canada, June 21-26, 1998.

2.02.07. Larch breeding and genetic resources. Plans an interdivisional symposium, "Larix 98", Krasnoyarsk, Russia. September 1-5, 1998.

2.02.11. Norway spruce breeding and genetic resources. Approximately 100 members. Held a Norway Spruce Symposium, Stará Lesna, Slovakia, August 31-September 7, 1997, with excursions in Slovakia, the Czech Republic and Poland: 60 participants from 23 countries. Published "IUFRO Norway Spruce Symposium", book of abstracts from the Symposium. Copies to be obtained from Ladislav Paule, Faculty of Forestry, Technical University, SK-96053 Zvolen, Slovakia. E-mail: paule@vsld.tuzvo.sk. Plans to publish the 1997 Conference proceedings in 1998. Is completing a database of measurement data from the IUFRO 1964-68 provenance trial with Norway spruce. A Norway spruce Internet newsgroup of members of the WP will be established in 1998.

2.02.13. Breeding and genetic resources of Mediterranean conifers. Plans to co-sponsor, with the European Union and the SPDC, a handbook and a training course "Cypress. A Handbook and a Training Course for Choosing, Propagating, Raising, Planting, Managing, Protecting and Utilising Cypress in Mediterranean Regions". The training course will be held in Florence, Italy, in February 1999 and will gather practitioners of most countries around the Mediterranean sea.

2.04.01. Population, ecological and population genetics. Published "Diversity and Adaptation in Forest Ecosystems in A Changing World", conference abstracts, University of British Columbia, Vancouver, B.C., Canada, August 5-9, 1996, 68 pages. Available on <http://s27w007.pswfs.gov/Meetings/IUFRO/popecol.html>. Plans

a WP meeting in 1999, LM-University of Munich, Hohenbachernstrasse 22, Freising (Bavaria). Host: Dr. Gerhard Müller-Starck

2.04.06. Molecular biology of forest trees. 180 attendees at its last meeting in 1997. Co-sponsored a meeting with **2.04.07 Somatic cell genetics**, in Quebec City, Canada, on August 12-16, 1997, hosted by the Canadian Forest Service and the Laurentian Forestry Center. Published: M.R. Ahuja, W. Boerjan, D.B. Neale, Eds. 1996 "Somatic Cell and Molecular Genetics of Trees", Kluwer, The Netherlands. Plans a Forest Biotechnology Conference 1999, a joint meeting of IUFRO Molecular Biology of Forest Trees 2.04.06 and Wood Biotechnology Working Groups: "Forest Biotechnology: Into the Next Millennium", Keble College, University of Oxford, Oxford, UK, July 11-16, 1999; Contact: Malcolm Campbell (malcolm.campbell@plants.ox.ac.uk).

2.04.08. Cytogenetics. Published "Cytogenetic Studies of Forest Trees and Shrub Species", 1997. Z. Borzan and S. E. Schlarbaum, eds., Croatia Forests, Inc., Zagreb Faculty of Forestry, University of Zagreb, 343 pp. Plans a meeting "Cytogenetic Studies of Forest Trees and Shrubs - Review, Present Status, and Outlook on the Future". University of Graz, Austria, September 6-12, 1998, contact: Professor Dr. Helmut Guttenberger, Department of Plant Physiology, University of Graz, Schubertstrasse 51, Austria (helmut.guttenberger@kfunigraz.ac.at). A publication will be associated with this event.

2.04.09. World directory of forest geneticists and tree breeders. The directory will be submitted to the editor in spring 1998. A copy will be mailed to everyone included. This will be the last published version, since the directory is accessible through DENDROME (dendrome@s27w007.pswfs.gov).

2.08.01. Tropical species breeding and natural resources. 300 members. Published proceedings of the 1996 conference "Tree Improvement for Sustainable Tropical Forestry", Mark Dieters, Colin Matheson, Garth Nikles, Chris Harwood and Steve Walker eds., available from the Queensland Forest Research Institute, MS 483, Fraser Rd, Gympie, Queensland, 4570, Australia. Plans a conference in South Africa in 2000.

2.08.03. Improvement and culture of eucalypts. 150 members registered on the WP Newsletter. Held a conference on Genetic Improvement and Silviculture of Eucalyptus, Salvador, Brazil, 24-29 August, 1997. Published the Proceedings. Vol 1-4, EMBRAPA, Colombo, Brazil. Plans a conference on Improvement and Culture of Eucalypts, Chile, 2001. Contact: Roberto Ipinza, E-Mail: ripinza@valdivia.uca.uach.cl.

2.08.04. Poplar and willow breeding and genetic resources. 250 members. Published "Biology of Populus and Its Implications for Management and Conservation". Stettler RF, Bradshaw HD, Heilman PE, Hinckley TM. NRC Research Press, Ottawa, Ontario, Canada, 539p. (contribu-

tions of the IPS I/ IUFRO meeting in Seattle 1995). Plans the IPS II meeting in France, September 1999.

2.08.05. Genetics of *Quercus*. Number of members: approx. 150. Held a conference "Diversity and Adaptation in Oak Species" State College, Pennsylvania, USA, October 12-17, 1997. Created an electronic mailing list of WP members. Plans a meeting in Croatia in 2000 in combination with 1.06.00 "Improvement and Silviculture of Oak". Will publish the proceedings of the 1997 meeting in spring 1998. Persons wishing to subscribe to the Genetics of *Quercus* mailing list should send the message "Subscribe L-*Quercus* YourName" to listserv@lists.psu.edu.

2.09.00. Seed physiology and technology. More than 300 members. Held a symposium "Innovations in Forest Tree Seed Science and Nursery Technology", Raipur, India, Nov 22-25. Published proceedings of the international symposium "Recent Advances in Tropical Tree Seed

Technology and Planting Stock Production". Yapa, A.C. (ed.), 1996, ASEAN Forest Tree Seed Centre, Muak-Lek, Saraburi, Thailand, June 1995. Plans a symposium "Recalcitrant Seeds", including Satellite Meeting on the IPGRI-DFSC Project on "Recalcitrant/Intermediate Tropical Forest Tree Seeds", October 12-15, 1998, Kuala Lumpur, Malaysia.

Other

Within the IUFRO World Series Csaba Matyas published the proceedings of the 2.02.00 Workshops held within the framework of the XX IUFRO World Congress in Tampere, Finland, in 1995. The volume is titled "Perspectives of Forest Genetics and Tree Breeding in a Changing World", IUFRO World Series Vol. 6, Ed.: Csaba Matyas; IUFRO Secretariat Vienna, 1997.

Eric Teissier du Cros

DIVISION 3 - FOREST OPERATIONS AND TECHNIQUES

1. Introduction

The Division's Web pages are essentially complete except for minor details, which several working units have not yet provided. The Division's administrative assistant, Rita Mustikasari, is working with officers of the working units to obtain these details.

The principal Division-wide activity in 1997 was an interdivisional meeting organized jointly by Divisions 1 and 3 together with BOLFOR (a USAID-sponsored project in Bolivia) and CIFOR, and held in Santa Cruz, Bolivia, 15-20 July. The organizing committee was chaired by William Cordero, Deputy Coordinator of Division 3. The title of the meeting was "Simposio Internacional sobre Posibilidades de Manejo Forestal Sostenible en América Tropical." Proceedings are in press, and inquiries about obtaining copies should be directed to: William Cordero, BOLFOR, Casilla No. 6204, Santa Cruz, Bolivia; Fax : +591-3-480854; E-mail: michell@bibosi.scz.entelnet.bo.

In the period between June and August 1998 (exact dates have not yet been established), a Division 3 Officers Mid-Term Meeting will be held in Zürich, Switzerland. The purpose of the meeting will be to work out detailed plans for the Division's activities in connection with the IUFRO World Congress 2000. For information about the meeting contact: Rita Mustikasari, CIFOR, P.O. Box 6596 JKPWB, Jakarta 10065, Indonesia; Fax +62 251 622100, E-mail r.mustikasari@cgnnet.com.

2. Changes during the year in Research Groups and Working Parties

No changes have been made in the titles or focal areas for the working units during 1997, nor has it been suggested

that any of the working units be terminated. Similarly, no changes are proposed in the current slate of officers for the working units.

3. Report of Activities by Working Units

- 3.02.03, "Nursery Operations", has published the Proceedings of its joint 1995 meeting (with 1.05.04 and 2.01.00) "Making the Grade: International Symposium on Planting Stock Quality and Performance" held at Sault Ste. Marie, Ontario, Canada. The meeting was co-sponsored by the Ontario Forest Research Institute, Canadian Ministry of Natural Resources and IUFRO. The Proceedings appear in a special 1997 issue of *New Forests* 13(1-3):1-514. Copies can be purchased directly from Kluwer Academic Publishers, P.O. Box 17, 3300 AA Dordrecht, the Netherlands, at a cost of approximately US\$200. Additional information about ordering and contents can be found on the World Wide Web at <http://www.WKAP.NL/journalhome.htm/0169-4286>.

- 3.04.00, "Operational Planning and Control; Work Study", held a meeting on "Planning and Control of Forest Operations for Sustainable Forest Management" 16-19 June in Madrid and at the Valsain Forest, Spain. A total of 32 delegates from seven countries attended and 26 papers were presented. The Proceedings are in press. Contact Esko Mikkonen, Department of Forest Resource Management, P.O. Box 24, FIN-00014 University of Helsinki, Finland; E-mail: Esko.Mikkonen@helsinki.fi.

- The Proceedings of two meetings organized jointly by 3.05.00, "Forest Operations in the Tropics", and FAO (the Food and Agriculture Organization of the United Nations) have been published by FAO. The publications are:
 - (a) *Forest Codes of Practice: Contributing to Environmentally Sound Forest Operations* (from the IUFRO/FAO symposium on codes of forest practice held at Feldafing, Germany, in December 1994). Published as FAO Forestry Paper 133.
 - (b) *Research on Environmentally Sound Forest Practices to Sustain Tropical Forests* (from a IUFRO/FAO satellite meeting held in connection with the 1995 IUFRO World Congress at Tampere). Published by the FAO Forest Products Division.

Inquiries for obtaining copies of both publications may be directed to Rudolf Heinrich, FAO (FOPH), Via delle Terme di Carcalla, 00100 Rome, Italy; Fax +39 6 5705-5618, E-mail: Rudolf.Heinrich@fao.org.
- The Proceedings of the technical sessions of 3.05.00, "Forest Operations in the Tropics" at the 1995 IUFRO World Congress have been published by CIFOR, the Center for International Forestry Research. Copies are available free of charge under the title *Forest Operations for Sustainable Forestry in the Tropics*. Requests may be sent to Rita Mustikasari at CIFOR, P.O. Box 6596 JKPWB, Jakarta 10065, Indonesia; Tel. +62-251-622622, Fax +62-251-622100, E-mail: R.Mustikasari@cgnnet.com.
- 3.06.00, "Forest Operations under Mountain Conditions", has published the Proceedings of its 1996 meeting "International Mountain Logging and Pacific Northwest Skyline Symposium" held at Campbell River, BC, Canada. The meeting was co-sponsored by the University of British Columbia and FERIC, the Forest Research Institute of Canada, and the Proceedings were compiled by I.B. Hedin. Copies of the Proceedings can be obtained from FERIC under the title "Addressing Today's Social and Environmental Issues". FERIC Special Report SR-116. Contact: FERIC, 2601 East Mall, Vancouver, British Columbia, Canada V6T 1Z4; Fax +1 604 228-0999, E-mail: admin@vcr.feric.ca.
- 3.06.00 will also publish proceedings from its 1996 meeting "Environmentally Sound Forest Roads and Wood Transport" held at Sinaia, Romania, June 17-22. The meeting was organized jointly by 3.06.00 and the FAO/ECE/ILO Joint Committee. The publication for distribution will be available in the second half of 1998. Contact: Rudolf Heinrich, FAO (FOPH), Via delle Terme di Carcalla, 00100 Rome, Italy; E-mail Rudolf.Heinrich@fao.org; Fax +39-6-5705-5618.
- 3.06.00, "Forest Operations under Mountainous Conditions", 3.07.00 "Ergonomics", and 3.11.00 "Harvesting, Wood Delivery and Utilization", held a joint seminar on "Forest Operations in Himalayan Forest, Consideration of Ergonomic and Socio-Economic Problems," at 20-23 October in Thimpu, Bhutan. This was followed by a field excursion on 24-29 October. Participants included 26 foreigners representing 10 countries and about 50 people working and living in Bhutan. The Proceedings, edited by Hans-Rudolf Heiniman and John Sessions, will be published electronically on the WWW soon. Further information about proceedings can be obtained from Hans-Rudolf Heiniman, Swiss Federal Institute of Technology, Forest Engineering, ETH-Zentrum HG G 23.2, CH-8092 Zürich, Switzerland; Fax +41-1 632-1146, E-mail heiniman@waho.ethz.ch.
- 3.07.00, "Ergonomics", held a meeting on "Timber Harvesting and Forest Transportation" from 8-12 December. The meeting was co-sponsored by the Federal University of Viçosa held at Vitoria (Espírito Santo), Brazil. A total of 332 participants from 12 countries attended the Symposium. The Proceedings have been published under the title *Anais do 3º Simpósio Brasileiro sobre Colheita e Transporte Florestal*. Papers have been published in the language used by the individual presenter, i.e. in Portuguese, Spanish, or English. Information about obtaining copies of the proceedings can be obtained from Prof. Amaury de Souza, Departamento de Engenharia Florestal, Universidade Federal de Viçosa, Viçosa (Minas Gerais), Brazil; Fax: +55-31-899-2478, E-mail: apsouza@mail.ufv.br.
- 3.08.00, "Small-Scale Forestry", and 6.11.02 "Forestry and Rural Development in Industrialized Countries", organized a symposium on "Sustainable Management of Small-Scale Forestry" from 8-13 September in Kyoto, Japan. Sponsors included Kyoto University, the Japanese Forest Economic Society, the City of Kyoto, Kyoto Prefectural Government, Shiga Prefectural Government, IUFRO-Japan, the Japanese National Afforestation Promotion Organization, Japan Forestry Association, Japan Forest Technical Association, Forest Policy Research Institute, Japan Wood Products Information and Research Centre, and the European Forest Institute. Over 125 participants from 20 countries attended the six-day symposium. The Proceedings are in press. Information can be obtained from Ikuo Ota, Graduate School of Agriculture, Kyoto University, Kitashirakawa Sakyo, Kyoto 606-01, Japan; Fax +81-75-753-6191, E-mail: ikuota@kais.kais.kyoto-u.ac.jp.
- 3.09.00, "Economics and Harvesting of Thinnings", reports that the meeting on "New Harvesting Techniques in Thinnings" which was to be held 3 June in conjunction with the Elmia Fair at Jönköping, Sweden, was cancelled because an insufficient number of proposals for papers was received. Scientists who

proposed presentations are being encouraged to attend the 3.09.00 meeting scheduled for September 1998 in Dublin, Ireland. The contact for the meeting was Risto Lilleberg C3.09.00, Metsäteho Oy, P.O. Box 194, FIN-00131 Helsinki, Finland; E-mail: risto.lilleberg@metsateho.fi, Fax: +358 9 659202. For the 1998 meeting in Ireland the contact is Ted Lynch, Coillte, Leeson Lane, Dublin 2, Ireland; Fax: +353 1 678-9527, E-mail: Lynch_T@coillte.ie.

- 3.10.01, "Harvesting and Product Quality", organized a meeting together with the Forest Products Society that was held 22-26 June at Vancouver, BC, Canada, on "Effects of Timber Production and Harvesting on Product Quality". Approximately 40 delegates from six countries participated. The purpose of the meeting was to provide information and facilitate discussion

toward bridging the gap between forest products, timber harvesting operations, and silvicultural systems. Topics covered included optimal bucking decisions, ecosystem management prescriptions, the influence of thinning on wood quality, timing of harvest and silvicultural decisions affecting wood quality, and educational programs on wood quality and silviculture for woodland managers. Proceedings are not being published. Further information about the meeting can be obtained from Leonard R. Johnson C3.10.01, College of Forestry, Wildlife and Range Sciences, University of Idaho, 6th and Line, Moscow, Idaho 83844-1138, U.S.A.; Fax: +1-208-885-6226, E-mail: leonardj@uidaho.edu.

- 3.10.02, "Harvesting and Utilization of Tree Foliage", participated in a meeting on "Natural Substances for

Structure of Division 3

Coordinating Unit	
3.00.00 Forest operations and techniques	
Research Group	Working Party
3.02.00 Operational methods in the establishment and treatment of stands	
	3.02.01 Stand establishment operations
	3.02.02 Stand treatment operations
	3.02.03 Nursery operations
3.04.00 Operational planning and control; work study	
	3.04.01 Planning and control
	3.04.02 Work study, payment, labour productivity
3.05.00 Forest operations in the tropics	
3.06.00 Forest operations under mountainous conditions	
	3.06.01 Accessibility of mountain forests
	3.06.02 Harvesting in mountain forests
3.07.00 Ergonomics	
	3.07.01 Physical work environment
	3.07.02 Psycho-social problems
	3.07.03 Health and safety
	3.07.04 Ergonomics in the timber industry
	3.07.05 Ergonomic assessment of mechanization
3.08.00 Small-scale forestry	
3.09.00 Economics and harvesting of thinnings	
3.10.00 Harvesting, wood delivery and utilization	
	3.10.01 Harvesting and product quality
	3.10.02 Harvesting and utilization of tree foliage
	3.10.03 Harvesting and tree processing
	3.10.04 Harvesting and forest energy
	3.10.05 Wood delivery
3.11.00 Forest operations and environmental protection	
	3.11.01 Site impact caused by forest operations
	3.11.02 Forest operations on sensitive sites
	3.11.03 Methods and techniques for site protection and improvement

Health and Beauty” held 19-21 June in Riga, Latvia. There were 120 participants from 9 countries, with 72 papers presented. The presentations covered problems with utilization of natural substances from forests for production of pharmaceuticals and cosmetics. The Proceedings have been published by Silava, the Latvian State Institute of Forest Research. Papers have been printed in the original language with an abstract either in Russian or English. Contact: Maris Daugavietis Coordinator of 3.10.02, Silava, Rigas iela 111, LV 2169 Salaspils, Latvia; Fax: +371-790-1359, E-mail: maris@silava.lv.

- 3.11.00, “Forest Operations and Environmental Protection”, cancelled a meeting on “Forest Operations and Environmental Protection on Peatlands” that had been planned for 26-30 May at Kannus Research Station, Western Finland. Only 10 scientists pre-registered for the meeting. The organizer

was Risto Lauhanen Coordinator of 3.11.00, Finnish Forest Research Institute, Kannus Research Station, PO Box 44, FIN-69101 Kannus, Finland; Fax: +358-68 871165, E-mail: Risto.Lauhanen@metla.fi.

- 3.11.00, “Forest Operations and Environmental Protection”, (formerly Project Group P3.08.00) and the USDA Forest Service, Southern Forest Research Station, Auburn, Alabama, USA, produced Proceedings from their meeting at the 1995 World Congress in Tampere. Requests for copies of the proceedings may be sent to Bryce J. Stokes, USDA Forest Service, Southern Forest Research Station, DeVall Drive, Auburn, AL 36849, USA; Fax: +1-334-821-0037, E-mail: stokes@usfs.auburn.edu (E-mail as of November 1998: bstokes/wo@fs.fed.us)

Dennis P. Dykstra

DIVISION 4 - INVENTORY, GROWTH, YIELD, QUANTITATIVE AND MANAGEMENT SCIENCES

Introduction

The 6 Research Groups and 21 Working Parties in Division IV again contributed a fair share of the total number of IUFRO meetings during 1997. The Division IV web moderators, Matthias Albert and Stefan Daume, were very active, and a major part of our contribution to IUFRO-NET was completed during the year. Another important initiative is the *Multipurpose Resource Inventory* (MRI) project headed by Gyde Lund who recently completed this important task in Joensuu/Finland. The final product will be a set of technical guidelines for resource inventories (see details under <http://www.efi.joensuu.fi/projects/mri>). Another important initiative is *TROPIS*, the *Tree Growth and Permanent Plot Information System*, which aims at making better use of existing growth data. The system, managed by Jerry Vanclay, is growing steadily and currently contains references to over 12,000 plots contributed by individuals from 62 countries (see details under <http://www.cgiar.org/cifor/research/tropis.html>).

Changes in Leadership and Organization

Dr. Walter Sekot is the new coordinator of Research Group 4.04 *Forest management planning and managerial economics*. Changes/additions relating to Deputy Coordinators are presented in the new Division 4 structure below. Division 4 presently includes 6 Research Groups and 22 Working Parties, after the following additional working party was approved during the Executive Board meeting in September 1997:

4.04.08 Nature conservation planning

The new unit will be concerned with planning methods for nature conservation as part of forest planning. The activities are coordinated by Dr. Renate Bürger-Arndt from Germany, Deputy Coordinator is Dr. Berty Van Hensbergen from South Africa.

The new Division IV structure with 29 *IUFRO Units*, is as follows:

4.00.00

Inventory, Growth, Yield, Quantitative and Management Sciences

- C Klaus v. GADOW, kgadow@gwdg.de
- D Harold E. BURKHART, burkhart@vt.edu
- D Victor K. TEPLYAKOV, tepl@forest.msk.su

4.01.00

Mensuration, growth and yield

- C J.P. SKOVSGAARD, Fax: +45-45763233, jps@fsl.dk
- D Todd H. MOWRER, tmowrer/rmrsfs.fed.us

4.01.03

Design, performance and evaluation of experiments

- C Andreas ZINGG, andreas.zingg@wsl.ch
- D Valerie LEMAY, Fax: +1-604-8229106

4.01.04

Growth models for tree and stand simulation

- C Ivo KUPKA, ivo.kupka@lf.czu.cz
- D Margarida TOMÉ, magatome@isa.utl.pt

4.01.06

Instruments and methods in forest mensuration

- C David A. MAC LEAN, dmaclean@fcmr.forestry.ca
- D Ralph L. AMATEIS, ralph@vtm1.vt.edu

4.01.08

Effects of environmental changes on forest growth
C Kari MIELIKÄINEN, kari.mielikainen@metla.fi
D Heinrich SPIECKER, instww@sun1.ruf.uni-freiburg.de

4.01.09

Process-based models for predicting forest growth and timber quality

C Annikki MÄKELÄ, annikki.makela@helsinki.fi
D Joe LANDSBERG, Australia

4.02.00

Forest resources inventory and monitoring
C Risto PÄIVINEN, risto.paivinen@efi.fi
D H. Gyde LUND, gklund@worldnet.att.net
D Ashbindu SINGH, singh@edcmail.cr.usgs.gov
D August Basil TEMU, atemu@cgnet.com
D Jerry VANCLAY, j.vanclay@cgnet.com

4.02.01

Resource data in the tropics

C Thelma KRUG, thelma@itid.inpe.br
D M. ATUL, Fax: +91-1894-30530
D Robert DAVIS, robert.davis@fao.org
D Mohammed ELLATIFI, m.ellatifi@mailcity.com

4.02.02

Multipurpose inventories

C R. K. KOHLI, pulib@puniv.chd.nic.in
D Yoshihiro NOBORI, ynobori@tdsl.tr.yamagat-u.ac.jp
D Songkram THAMMINCHA, fforskt@nontri.kv.ac.th

4.02.03

Forest inventory on successive occasions

C Chris BRACK, c.brack@anu.edu.au
D Ed FRAYER, Fax: +1-906-4872915
D Timothy G. GREGOIRE, tgg@vt.edu
D Ernest G. Foli, Fax: +233-51-60121

4.02.04

Geographic and management information systems

C Roman ALVAREZ, rab@igiris.igeograf.unam.mx
D Kim DRALLE, kdr@sns.dk
D Timo TOKOLA, timo.tokola@forest.joensuu.fi

4.02.05

Remote sensing and world forest monitoring

C Tomasz ZAWILA-NIEDZWIECKI, tzawila@igik.edu.pl
D David EVANS, die@sfr.msstate.edu
D Sten FOLVING, sten.folving@jrc.it
D Jusof KAMARUZAMAN, kamaruz@forn.upm.edu.my

4.02.06

Resource data in the boreal regions

C Anatoly X. SHVIDENKO, shvidenk@iiasa.ac.at
D Vernon J. LABAU, 72114.447@compuserve.com
D Steen MAGNUSSEN, smagnussen@a1.pfc.forestry.ca

4.02.07

Large Scale Forest Inventory and Scenario Modelling

C Tuula Nuutinen, Tuula.Nuutinen@metla.fi
D: Howard Hoganson, hogan001@maroon.tc.umn.edu
D: Bruce Manley, manleyb@fri.cri.nz

4.04.00

Forest management planning and managerial economics

C Walter SEKOT, h440t8@edv1.boku.ac.at
D Janos GAL, jgal@efe.hu
D Lauri Valsta, lauri.valsta@metla.fi

4.04.01

Inventory of stands

C Otto ECKMÜLLNER, ottoeckm@edv1.boku.ac.at
D Jerzy SMYKALA, Fax: 48-22-224935

4.04.02

Managerial economics

C Maurizio MERLO, merlo@ipdunidx.unipd.it
D Andrzej KLOCEK, Fax: +48-22-491375

4.04.03

Forest management planning methods

C Romualdas DELTUVAS, Fax: +370-7-296531
D Marian IANCULESCU, Fax: +40-1-3120403

4.04.04

Economic planning systems for forest management

C David W. KLEMPERER, david.klemperer@vt.edu
D Masahiro AMANO, masahiro@ss.ffpri.affrc.go.jp
D Julio CENTENO, jcenteno@ciens.ula.ve

4.04.06

Planning and economics of fast-growing plantation forests

C Oscar GARCÍA, ogarcia@montes.upm.es
D Peter BLANDON, United Kingdom

4.04.07

SylvaPlan - Forest Management Terminology

C Othmar GRIESS, Fax: +43-316-8050510
D Pierre SCHRAM, Luxembourg, schram@pt.lu
D Marten NIEUWENHUIS, Ireland, nieuwenh@agriculture.ucd.ie

4.04.08

Nature conservation planning

C Renate BÜRGER-ARNDT, rbuerge@gwdg.de
D Hubertus VAN HENSBERGEN, hjvh@land.sun.ac.za

4.11.00

Statistical methods, mathematics and computers

C Michael KÖHL, koehl@forst.tu-dresden.de
D Christoph KLEINN, ckleinn@catie.ac.cr

4.11.01

Statistical methods

C George GERTNER, gertner@uiuc.edu
D Zichun CHENG, China

4.11.02

Mathematics

C Keith RENNOLLS, k.rennolls@greenwich.ac.uk
D Celia Gaillard DE BENITEZ, benitez@unsere.edu

4.11.03

Expert systems and knowledge management

C Daniel L. SCHMOLDT, schmoldt@vt.edu
D Hannu SAARENMAA, hannu.saarenmaa@eea.dk

4.12.00

Remote sensing technology and geographic information systems (GIS)

C Barbara KOCH, ferninfo@sun2.ruf.uni-freiburg.de
D Yousif HUSSIN, Netherlands
D Matthias SCHARDT, schardt@poboxjoanneum.ac.at

4.13.00

Managerial, social and environmental accounting

C Hans JÖBSTL, jöbstl@mail.boku.ac.at

Report of Activities 1997

Meetings

4.02.00/4.02.03 Fort Collins, CO, USA; 3-7 Feb. 1997; *Forest Vegetation Simulator (FVS) Conference*

Organized by: Dr. Richard Teck (E-mail: /s=R.Teck/ou1=W04A@mhs-fswa.attmail.com).

4.04.02/4.13.00 Nancy, France; 20-23 Apr. 1997; **Recent Developments in Accounting and Managerial Economics for an Environmentally-Friendly Forestry**

Organized by: Dr. Gérard Buttoud and Alain Despres (Gérard.Buttoud@nancy-engref.inra.fr), and Dr. Maurizio Merlo and Dr. Hans Jöbstl from IUFRO 4.04.02 and 4.13.00. attendance: 33 papers from 24 countries.

4.02.00/4.01.04/EFI Wageningen, The Netherlands; 26 Jun.-3 Jul. 1997; **Forest Scenario Modelling for Ecosystem Management at Landscape Level**

Organized by: Dr. Gert-Jan Nabuurs (g.j.nabuurs@ibn.dlo.nl). Attendance: 95 participants from 33 countries.

4.04.06 (co-sponsor) Syracuse, New York, USA; 5-8 Aug. 1997; **Enhancing productivity and sustainability of short-rotation Salicaceae**

Organized by: Dr. Daniel Robison (ceext@mailbox.syr.edu).

4.04.06 (co-sponsor) Salvador, Bahia, Brazil; 24-29 Aug. 1997; **Silviculture and Improvement of Eucalypts**

Organized by: Technical committee EMBRAPA-Forestry (eucalypt@cnpf.embrapa.br).

4.02.00 Nogent-sur-Vernisson, France; 16-18 Sept. 1997; **Remote sensing support for the FAO FRA2000**

Workshop chaired by: Dr. Risto Päivinen (Risto.Paivinen@sauna.efi.joensuu.fi).

4.02.06/IGBP/IBFRA Khabarovsk, Russia, 25-30 Sept. 1997; **Comprehensive Classification of Boreal Forests**

Organized by: Dr. A. Shvidenko, R. Päivinen, M. Apps, D. Efremov (Efremov@iniilkh.khabarovsk.su). Attendance: 37 participants from 7 countries.

4.01.00 Oeiras, Portugal; 21-27 Sept. 1997; **Empirical and Process-Based Models for Forest Tree and Stand Growth Simulation**

Organized by: Dr. Margarida Tomé, Ana Amaro (magatome@uti.pt).

4.01.03/1.14.00 Corvallis, Oregon, USA; 15-26 Sept. 1997; **Experiments in uneven-aged stands - design, performance and evaluation**

Organized by: Dr. Andreas Zingg (andreas.zingg@wsl.ch), Dr. Emmingham (Fax: +1-541-737-2668).

4.00.00/4.01.00 Valdivia, Chile; 3-5 Sept. 1997; **Modelling Growth of Fast-Grown Tree Species**

Organized by: Dr. Alicia Ortega, Gonzalo Paredes (aortega@valdivia.uca.uach.cl).

4.01.08/8.02.00 Antalya, Turkey; 15 Oct. 1997; **Effects of nutrition and climate change on growth**

Organized by: Dr. Ian Hunter (ian.hunter@efi.joensuu.fi).

4.04.07 Vienna, Austria; 3-7 Nov. 1997; **Terminology of Forest Management**

Organized by: Othmar Griess (Pregl Weg 1, A-8074 Raaba).

Publications

The proceedings of a conference on *Growth Studies in Moist Tropical Forests in Africa* have been published and are available at US\$ 30 from Ernest Foli, Forestry Research Institute of Ghana, University, P.O. Box 63, Kumasi, Ghana (Fax: +233-51-60121).

Other

Several members of 4.11 are involved in preparing a special issue of *Environmental and Ecological Statistics* in which highlights about the development and application of statistical methods in forestry will be presented (chief editor is Dr. G. P. Patil)

Klaus von Gadow

DIVISION 5 - FOREST PRODUCTS

1. Introduction

Division 5 extends its appreciation to Dr. Christian Sales for serving as Coordinator of the Division for 1996 and 1997. He will continue to serve IUFRO and Division 5 as a Deputy Coordinator to the year 2000.

A special thank you and tribute is due to Past Division 5 Coordinator, Dr. Robert Youngs, for serving as the conference co-chair for the 1997 All Division 5 Conference. His expertise and counsel were invaluable in making this meeting both a technical and financial success.

Division 5 focuses on the broad field of forest products worldwide in support of the IUFRO aim of international cooperation in scientific studies in forestry. Activities in IUFRO Division 5, **Forest Products**, reflect both current and predicted problems and opportunities related to the effective use of both wood and non-wood forest resources.

2. Organization

The Division is organized into 12 Research Groups which conduct research on Wood Quality (5.01), Timber Engineering (5.02), Wood Protection (5.03), Wood Processing

(5.04), Composites and Reconstituted Products (5.05), Properties and Utilization of Tropical Woods (5.06), Energy and Chemicals from Forest Biomass (5.07), Production and Utilization of Bamboo and Related Species (5.08), Tree Ring Analysis (5.09), Forest Products Marketing (5.10), Non-wood Forest Products (5.11), and Sustainable Production of Forest Products (5.12). In most cases, each of these Research Groups consists of one or several Working Parties that cover specific aspects of these broad research areas.

3. Changes in Research Emphasis

Over the years, forest products research conducted by IUFRO Division 5 member organizations and others has focused on extending recovery, durability, safety, and use, often with the goal of making products more attractive to consumers and more economic to manufacture, relative to other raw materials, while conserving the resource and using it wisely. Today, the focus is similar, but the goals have changed. Rising demands have meant that we need to look at all resources and use them independently or in combination, where they are best socially, environmentally and economically. The goal is now conservation of all raw materials in concert to meet people's needs. Key areas for utilization research and development include learning how to use the changing resource of materials in the forest, extending the resource, and implementing environmentally and socially friendly technologies wherever possible.

4. Web Site News

The Division 5 portion of the IUFRO Web Site is slowly taking shape. Eventually we expect this method of communication to provide a large amount of information about Division 5 and its Research Groups and Working Parties. If your Research Group or Working Party has information to be added to the Web Site, send it via e-mail or otherwise, and it will be added to the existing information.

5. Division 5 Conference, July, 1997

An All-Division 5 Conference on "*Forest Products for Sustainable Forestry*" was held in Pullman, Washington, USA from 7 to 12 July, 1997 to address some of these challenges. This conference was a good example of the many different conferences endorsed or sponsored by IUFRO each year that bring researchers from throughout the world together to share research progress and develop collaborative efforts for future work. At Pullman, 222 delegates and 44 accompanying persons from 42 countries discussed their progress, needs and concerns in research to improve the sustainable utilization of the forest resource and agreed on further collaborative action to carry forward ideas developed. Keynote speakers emphasized the need to respect the land and repeatedly noted that there is an increasing need to maintain communication with the public, who are becoming increasingly aware of the resource and its effects on both

the environment and the economy. In order to play its role effectively in an increasingly resource oriented and dependent world and to continue to provide the primary economic incentive for sound forest management, the forest products industry must remain competitive. In doing this, it is essential that the forest resource be used effectively and that products removed from the forests be used wisely and efficiently.

Using wood in a manner to sustain its supply in an integrated forest ecosystem requires knowledge of wood quality and factors that affect it. Oral and poster presentations dealt with variations in wood quality, biological improvement of wood properties, and wood properties desired by end-users (5.01). Quality evaluation in engineered wood, essential to its effective use, is increasingly based on non-destructive approaches. This was discussed in oral presentations and posters (5.02). Recent developments in maintaining wood quality by protecting it against fire and destructive organisms were presented and discussed by the participants (5.03). Features of modern wood processing to produce quality products from a dependable wood resource were the subject of several sessions of discussion and debate (5.04). With the attention being given to composites of wood and of wood with non-wood products, discussions of new advances in composite and reconstituted products were broadly based and diversified (5.05). The strong interest in sustaining forests of the developing world while also improving economic and social conditions for the peoples of those nations led to many discussions of improving knowledge, understanding, and utilization of tropical woods. Out of these sessions emerged proposals for follow-up on subjects of special concern (5.06).

The role of wood as a major energy source was discussed by persons from several parts of the world (5.07). The bamboos and their related species are primary resources for structural and raw material use in many parts of the world, a point that was elaborated and understandings advanced in many effective papers and posters (5.08). Strong interest in the ability to learn much about effects on tree growth of major events affecting the forest over years past, as well as improved understanding of tree growth itself, was reflected in particularly well attended sessions on tree ring analysis (5.09). The increasing recognition of forest products marketing as a key element in the economical use of the forest resource was demonstrated in discussions of marketing as it relates to the overall sustainability of the resource (5.10). The non-wood products that are the essentials of life in many parts of the world were dealt with broadly and in depth (5.11). New to this Conference, and in line with its theme, were several discussions of the role of utilization in sustaining forest resource. This subject added a perspective that will be given increased attention as the importance of this aspect of forestry becomes increasingly apparent (5.12).

The program of the Conference addressed many of the themes and emphases identified as follow-up to the 1992 United Nations Conference on Environment and Development, held in Rio de Janeiro in 1992; the Intergovernmental Panel on Forests, meeting in New York in February 1997; and the United Nations Committee on Forestry, meeting in Rome in March 1997. The delegates returned home aware of their role in meeting these global concerns and with ideas and contacts for collaborative efforts in carrying out that role. Some of the Groups will be meeting for follow-up discussions in workshops and special focus meetings during the next several years; all will be gathering again in Kuala Lumpur, Malaysia, in 2000, at the IUFRO World Congress to discuss progress and initiate further plans. Active communication via the Internet, e-mail, and other media will help in keeping alive the spirit of collaboration generated in Pullman.

6. Information from Division 5 Research Groups

5.01 WOOD QUALITY - For more information about this Research Group contact John Phelps, E-mail: jphels@siu.edu

An international wood quality workshop entitled, "Timber Management Toward Wood and End-Products Value" was held on August 18-22, 1997, in Quebec City, Canada. This workshop was jointly sponsored by the Canadian Tree Improvement Association, the International Association of Wood Anatomists, and IUFRO. A copy of the proceedings, which contains 61 papers and 15 abstracts, is available from the Publications Department, Forintek Canada Corp., 319, rue Franquet, Sainte-Foy, Quebec, Canada. Subjects included in the conference were:

- 1/ Wood quality requirements for specific end uses
- 2/ Nondestructive evaluation of wood quality
- 3/ Timber management toward wood quality and end-product value
- 4/ Tree breeding for wood quality and end-product value
- 5/ Wood quality in relation to silviculture
- 6/ Mechanical properties
- 7/ Pulp properties in relation to wood quality
- 8/ Variation in wood quality.

The Wood Quality Research Group also sponsored an International Workshop on the Influence of Microfibril Angle on Wood quality during November 21-26, 1997.

5.02 TIMBER ENGINEERING – For more information about this research group contact Preban Hoffmeyer, E-mail: ph@bkm.dtu.dk

This group participated in the All Division 5 Conference, and also held its regularly scheduled biannual conference in Copenhagen, Denmark, from 18-20 June, 1997. A total of 70 people attended and 30 papers were presented. Proceedings are available from Dr. Hoffmeyer.

5.04 WOOD PROCESSING - For more information on this Working Group, contact Howard Rosen, E-mail: hrosen/wo@fs.fed.us

The major effort for the year was the Division 5 Conference. All 6 of Working Groups held 14 sessions and a general business meeting. Purpose and objective statements are being revised for each of the Research Groups Working Parties. The following information has been reported from our Working Parties:

5.04.06 Wood Drying - Plans for the next Wood Drying Symposium are underway. The meeting will be held in Stellenbosch, South Africa, at the University of Stellenbosch, January 25-28, 1999. The Meeting Coordinators are Prof. H.F. Vermaas and Dr. D.E. Steinmann. A report on wood drying research activities around the world is being prepared.

5.04.08 Sawing, Milling and Machining – The following activities were held in 1997:

—Co-sponsored the 13th International Seminar on Wood Machining in Vancouver, British Columbia, Canada, June 17-20, 1997 attended by a record attendance of about 135 people. Proceedings are available from Forintek Corporation, Vancouver, BC, Canada.

—Co-sponsored Saw Tech '97, the fifth International Conference on sawing Technology, Seattle, Washington, USA, October 30-31, 1997. Proceedings are from the Wood Machining Institute. P.O. Box 476, Berkeley, California, USA.

5.04.13 Industrial Engineering and Operations – This Working Party co-sponsored the first International Value-Added Wood Processing Conference in Vancouver, B.C., Canada, November 19-20, 1997 with 220 participants, and will co-sponsor the Second International Value-Added Wood Processing Conference in Toronto, Ontario, Canada in November of 1998.

5.05 WOOD COMPOSITES – For more information on this Research Group, contact David Plackett, E-mail: plackett@van.forintek.can

This Research Group participated in the 5th Chemical Congress of North America, in Cancun, Mexico, in November of 1997.

5.06 PROPERTIES AND UTILIZATION OF TROPICAL WOODS – For more information on this Research Group, contact L. T. Hong, E-mail: honglt@frim.gov.my

Many major research efforts were identified at the All Division 5 Conference. Contact Dr. Hong for a detailed listing of these items.

5.07 ENERGY FROM BIOMASS – For more information on this Research Group, contact Paul Fong, E-mail: forest.products@forprod.csiro.au

Activities were organized by members of this Research Group in collaboration with other sponsors, including:

- A symposium on Chemical Implications of Energy Use for Agricultural and Forestry Resources Symposium held in December 1995 in Honolulu as part of the International Chemical Congress of Pacific Basin Societies.

- A conference on Thermochemical Biomass Conversion held in Banff, Canada in May 1996 where over 120 papers were presented. Within this workshop Working Party 5.07.01 held a workshop on the fundamental aspects of biomass pyrolysis.

Members also attended the Biomass Conference of the Americas in Montreal and meetings of a pyrolysis and gasification group in Europe where they interacted and built network linkages with other researchers in the biomass energy area.

5.08 PRODUCTION AND UTILIZATION OF BAMBOO AND RELATED—For more information on this Research Group, contact Songkram Thammincha, E-mail: fforskt@nontri.kv.ac.th

Considerable progress has occurred in the bamboo research field. Focused research thrusts are being developed in the areas of bamboo machining, bamboo protection processes, as well as in harvesting, transport and storage methods.

5.09 TREE RING ANALYSIS—For more information on this Research Group, contact Rupert Wimmer, E-mail: wimmer@mail.boku.ac.at

At the All Division 5 Conference, this group developed focus areas in general and tropical tree ring analysis, and discussed forming a working party on approaches to tree ring modeling.

5.10 FOREST PRODUCTS MARKETING—For more information on this Research Group, contact Heikki Juslin, E-mail: hjuslin@silvia.helsinki.fi

The group had three meetings in 1997:

1. International Conference on “Preparing for the 21st Century: Value Added Marketing for Value Added Wood Products”, held in Tofino, British Columbia, Canada, June, 1997
2. Group sessions in connection with Forest Products Society 1997 Annual Meeting, Vancouver, British Columbia, Canada, June, 1997.
3. Group sessions in connection with IUFRO Division 5 Conference in Pullman, Washington, USA, July, 1997.

7. New Research Group Formed

The IUFRO Board approved the formation of a new Research Group, *Sustainable Production of Forest Products*, 5.12, at the Rome board meeting. Dr. Jamie Barbour (E-mail: jbarbour/pnw@fs.fed.us) is the Coordinator and Dr. Andrew Wong (E-mail: wonga@frim.gov.my) serves as the Deputy Coordinator. The objective of this group is to promote research on the sustainable production of wood products. It will focus on global issues regarding sustainably produced forest products, and will provide a forum for researchers who study the production of wood and other forest products in a sustainable manner. It will examine questions such as green certification, life cycle analysis, wood products from sustainably managed forests, and the economic contribution of wood products to sustainable forestry.

John Youngquist and Christian Sales

DIVISION 6 - SOCIAL, ECONOMIC, INFORMATION, AND POLICY SCIENCES

1. Introduction

Most of the 11 Research Groups and 23 Working Parties in Division VI had an active 1997. However, more activities are wanted in some of the 34 *IUFRO Units*, also in contributing to the IUFRO-NET.

The work for the first all Division VI Conference with the title “Contribution of Science to the Development of Forest Policy” is in good progress. The Conference is planned to be held in South Africa in 1999.

2. Changes during the year in Research Groups and Working Parties

New Deputy Coordinator of Working Party 6.11.04 *Economic Evaluation of Multifunctional Forestry*:

Markku Penttinen
Metla
Unioninkatu 40 A
FIN-00170 Helsinki
Fax: +358 0 8570517
Tel: +358 0 857051
E-mail: markku.penttinen@metla.fi (pers.)
E-mail: ffri@metla.fi (org.)

3. Report of Activities

IUFRO World Series

Research Group 6.13.00 *Forest Law and Environmental Legislation* has produced Vol. 7 in the IUFRO World Series: "Developments in Forest and Environmental Law Influencing Natural Resource Management and Forestry Practices in the United States of America and Canada". Editors: *Franz Schmithüsen* and *William C. Siegel*.

Meetings 1997

6.03.04 Latin American and Caribbean Information System Network: Salvador, Brazil, 24-29 Aug. 1997

6.06.03 Extension: Nairobi, Kenya, 7-12 Sep. 1997

6.06.04 Education and Research in Silviculture: Brno, Czech Republic, 2-7 Sep. 1997

6.06.04 Education and Research in Silviculture and
6.15.00 Further Education and Improvement of Education in Forestry: Wageningen, The Netherlands, 30 Jul - 2 Aug 1997

6.11.01 Economic and Social Aspects of Forestry in Developing Countries: Rome, Italy, 1-5 Dec. 1997

6.11.02 Forestry and Rural Development in Industrialized Countries: Kyoto, Japan, 8-13 Sept. 1997

6.12.00 Forest Policy and Forestry Administration, Joensuu, Finland, 15 Jun. 1997

6.12.02 Forest Institutions and Administration: Riederalp, Switzerland, 14-18 Sept. 1997

6.12.03 Integrated Land-use and Forest Policy: Antalya, Turkey, 15 Oct. 1997

6.14.00 Urban Forestry: Antalya, Turkey, 20 Oct. 1997

6.16.00 Forest Sector Analysis: Umea, Sweden, 1-5 Dec. 1997

Niels Elers Koch

DIVISION 7 - FOREST HEALTH

Introduction

Division 7 continues to be a vigorous, multidisciplinary division with four Research Groups: 7.01.00 *Physiology and Genetics of Tree/Phytophage Interactions*, 7.02.00 *Pathology*, 7.03.00 *Entomology*, and 7.04.00 *Impacts of Air Pollution on Forest Ecosystems*. In the spirit of diversity, we added a South African female scientist (Kim Olbrich) as a Deputy Coordinator of 7.04.01 *Biochemical and Physiological Aspects of Air Pollution*. We have established a web moderator (Dave Karnosky, assisted by Janet Pikkarainen), and we have had IUFRO web page activity concerning the Working Parties or research meetings from 12 of our 30 Working Parties. Working Unit 7.02.01 *Root and Butt Rots* recently electronically published the abstracts of their 9th International Conference on Root and Butt Rots on the IUFRO internet system. In addition, Working Unit 7.02.00 published an original paper on the IUFRO internet system and Working Unit 7.02.08 has republished their 1995 World Directory of Forest Pathologists and Entomologists on the IUFRO internet system.

At the divisional level, Dr. Manfred Tesche, Germany, was added as a Deputy Coordinator of Division 7. One of Dr. Tesche's first responsibilities will be to examine the possibility of developing a Division 7-wide meeting in 1999. We are considering a meeting on breeding insect, disease, and pollution resistance. Dr. Kevin Percy, Canada, has assumed the duties of Coordinator for 7.04.00 - *Impacts of Air Pollution on Forest Ecosystems*.

Changes in Division 7 Working Units

Two new working units were added to Division 7 in 1997:

7.02.09 *Phytophthora - Diseases of Forest Trees*

Coordinator: Evert M. Hansen
Department of Botany and Plant Pathology
Oregon State University
Corvallis, Oregon 97331
Tel: +1-541-737-5243
Fax: +1-541-737-3573
E-mail: hansene@ava.bcc.orst.edu

Deputy Coordinator: Clive Brasier
Forestry Commission Research Division
Alice Holt Lodge
Farnham, Surrey GU10 4LH
Great Britain
Tel: +44-420-222-55
Fax: +44-420-236-53
E-mail: yfcw29@castle.ed.ac.uk

Deputy Coordinator: Dr. Kenneth Old
Assistant Chief of Division
CSIRO
P.O. Box 4008 Queen
Victoria TCE, Canberra ACT
Australia 2600

7.03.10 - Methodology in Forest Pest and Disease Survey

Coordinator: Miles Knizek
The Forestry and Game Management Research Institute
Jiloviste, Strnady
156 04 Praha 5-Abraslaav
Czech Republic
Tel: +420-2-57921643
Fax: +420-2-57921276
E-mail: forinst@ms.anet.cz

Deputy Coordinator: Beat Forster
Swiss Federal Institute for Forest, Snow and Landscape Research
CH-8903 Birmensdorf ZH
Switzerland

The following Division 7 Working Unit Coordinator and Deputy Coordinator changes occurred in 1997:

7.01.04 - Resistance Breeding

Coordinator: Alvin Yanchuk
Research Branch, BC Forest Service
31 Bastion Square
Victoria, B.C. Canada
V8W 3E7
Tel: +1-250-387-3338
Fax: +1-250-387-0046
E-mail: alvin.yanchuk@gems4.gov.bc.ca

Deputy Coordinator: Catherine Bastien
Station d'Amelioration des arbres forestiers
INRAF45160 ARDON
Tel: +33-02-38-41-78-29
Fax: +33 02 38 41 78 79
E-mail: catherine.bastien@orleans.inra.fr

Deputy Coordinator: John King
Research Branch, BC Forest Service
31 Bastion Square
Victoria, B.C. Canada
V8W 3E7
Tel: +1-250-387-6476
Fax: +1-250-387-0046
E-mail: john.king@gems7.gov.bc.ca

7.02.02 Foliage and shoot diseases

Coordinator: Gaston Laflamme
Ressources Naturelles Canada
Centre de Foresterie des Laurentides
1055, rue du P.E.P.S. / P.O. Box 3800
Sainte-Foy Québec G1V 4C7
Canada

Tel (direct): +1-418-6484149
Tel (org): +1-418-6483770
Fax: +1-418-6485849
E-mail: laflamme@am.cfl.forestry.ca

Deputy Coordinator: Antti Uotila
Hyttiälä Forestry Field Station
Hyttiäläntie 124
35500 Korkeakoski
Finland
Tel: +358-3-3355111
Fax: +358-3-3355555
E-mail: auotila@hyytiala.helsinki.fi

Michael E. Ostry, USA, remains Deputy Coordinator.

7.03.04 Diseases and insects in forest nurseries

Coordinator: Robert James
USDA Forest Service
Forest Health Protection
3815 Schreiber Way
Coeur de' Alene, ID 83814-8363, USA
Tel: +1-208-765-7421

7.04.02 - Biochemical and Physiological Aspects

Deputy Coordinator: Kim Olbrich
Division of Water, Environment & Forestry Technology, CSIR
Private Bag x11227, 16 Reitz St.
Nelspruit, 1200, South Africa
Tel: +27-13-7413864
Fax: +27-13-7413869
E-mail: kolbrich@csir.co.za

7.04.05 - Silviculture in Polluted Areas

Coordinator: Sang-Sup Han
Kangweon National University
College of Forestry
Chuncheon 200-107, Korea (Rep)
Tel: (org): +82-361-508311
Fax: +82-361-541998
E-mail: sshan@cc.kangwon.ac.kr

Research Group Activities

The following Division 7 meetings occurred in 1997:

7.01.00: Physiology and Genetics of Tree Phytophage Interactions - Arcachon, France, Aug. 31 - Sept. 5

7.02.01: 9th Conference on Root and Butt Rots - Carcans, France, Aug. 31-Sept. 8

7.02.02: Foliage and Shoot Diseases - Quebec, Canada, May 25, 31

7.02.04: Phytophthora and Virus Diseases of Forest Trees - Syracuse, New York, Jun. 11-13

7.03.00: International Forest Insect Workshop - Pucon, Chile, Aug. 18-21

7.03.02: Biology of Gall Inducing Arthropods - Matrafured, Hungary, Aug. 14-19

7.03.08: *Forest Protection in Northeast Asia* - Seoul, Korea, Sept. 29 - Oct. 3

Publications

7.04.00: E. Paoletti (Ed.), 1998, *Stress Factors and Air Pollution: 17th International Meeting for Specialists in Air Pollution*. Chemosphere Vol. 36, No. 4/5:625-1166.

7.02.08: D.D. Skilling and H.O. Batzer, *World Directory of Forest Pathologists and Entomologists* (<http://www.ncfes.umn.edu/pubinfo/worlddir.html>)

7.02.00: K. Rykowski, *Diseases in Unstable Forest Ecosystems - Possible Interpretations* (<http://www.ncfes.umn.edu/iufro/iufro.net/d7/wu70200/pub/rykowl.htm>)

7.02.01: Anonymous, 1997, *Abstracts of the 9th International Conference on Root and Butt Rots* (<http://www.ncfes.umn.edu/iufro.net/d7/wu70201/ev70201.htm>)

7.03.03, 7.03.05, and 7.03.07: Gregoire, J.C., A.M. Liebhold, F.M. Stephen, K.R. Day, and S.M. Salom (Eds.), 1997, *Integrating Cultural Tactics into the Management of Bark Beetle and Reforestation*. Proceedings of joint meeting in Vallombrosa, Italy, of IUFRO Working Parties 5.07.03, 7.03.05, and 7.03.07, USFS Northeast Forest Experiment Station General Technical Report NE-236. 243 pp. (Also available at: <http://iufro.boku.ac.at/iufro/iufro.net/d7/wu70307/valproc>)

7.03.09: C. Hutacharen and N. Tubtim, *Forest Insects in Thailand*, Office of Environmental Policy and Planning, Thailand.

David F. Karnosky

DIVISION 8 - FOREST ENVIRONMENT

Introduction

Division 8 is a new division which started operation on 1 January 1996. Environmental problems have become increasingly important all over the world in the wake of regional development and concomitant population growth and rapid urbanization. Foresters have to respond to the current social demands and to work for environments in forests and between forests and society. However, IUFRO's role and the approach to this important work is not yet very clear. The first task of Division 8 is to formulate this approach. Hence, Division 8 is organizing a divisional conference from 19 to 23 October 1998 in Kyoto, Japan, to integrate all fields of forest science and related sciences dealing with environmental issues. The primary objective is to identify and discuss promising research fields and topics for the coming 21st century. The organization of this conference constituted a major part of the Division's work in 1997.

Changes

There was no change in regular Research Groups and Working Parties in 1997. However, the Ad Hoc Working Group on Landslide-triggered Debris Flow was set up. The "Ad Hoc Working Group" is a new type of Working Unit either for a relatively short period of time or an interdisciplinary group cooperating with other organizations and societies. It can be developed into a regular IUFRO working group or working party if it is necessary.

1) Ad Hoc Working Group on Landslide Triggered Debris Flows Chairman: Kyoji SASSA (Japan)

Debris flows are major mountain disasters. They are usually caused by heavy or intense rainfall, but the 6 December 1996 Otari-mura debris flow disaster, which killed 14 forest

workers constructing a check dam in a torrent, occurred during the dry season. In this case, the triggering factor was not rainfall, but a landslide in mountain slopes. To investigate the mechanism, IUFRO Division 8, IUGS (International Union of Geological Sciences) Working Group on Landslides and two Japanese Societies and the Disaster Prevention Research Institute, Kyoto University set up this Ad Hoc working group.

Division 8 is calling for proposals of new Ad Hoc Working Groups under IUFRO in cooperation with other organizations in 1998. It can contribute to stimulate activities and possibly to develop new fields of activity for IUFRO.

Activities in 1997

1) IDNDR International Symposium on Landslide Hazard Assessment was organized on 13-16 July 1997. Proceedings of 421 pages of A4 size were published as ISBN4-990618-0-2 C3051. During the symposium, the Xian Appeal for "Protection of the Cultural Heritage (Huaqing Palace) in Xian and Promotion of Worldwide Landslide Hazard Assessment and Risk Mitigation" was issued by the symposium panelists including H. Noguchi, Division of Culture, UNESCO, E. Derbysire (UK), Chairman of the Scientific Board of IGCP (International Geological Correlation Program), and K. Sassa, IUFRO Division 8 Coordinator. Based on this appeal, a new project of IGCP No.425: Landslide Hazard Assessment and Mitigation for Cultural Heritage Sites and Other Locations of High Societal Value was approved by UNESCO. It will start from 1 April 1998 for 5 years. The present participants are 120 persons from

28 countries. The first group meeting will be held in Vancouver in September 1998 during the 8th Congress of the International Association of Engineering Geology and the Environment. The second meeting will be held in UNESCO in 1999.

- 2) The North-East Asia Symposium and Field Workshop on Landslides and Debris Flows was held on 17-24 July 1997 in Yichang, China. Proceedings were published in 168 pages of A4 size as Journal of Gansu Sciences Supplement 1997 (ISSN 1004-0366). The symposium tour included a cruising by a chartered ship in the three gorge area along the Yangtze river for 4 days. The symposium field workshop investigated big landslides and the construction site of the controversial big Three Gorge. The dam bears the risk of damaging the environment and cultural heritage and of causing landslide disasters along the river. Further details for 1) and 2) will be obtained from Division 8 Secretariat: DPRI, Kyoto University, fax:+81-774-384300, e-mail:iufro8-sec@bio.mie-u.ac.jp
- 3) An 8.04 meeting on natural disasters and environmental functions towards the 21st century was held on 16 October 1997 as a satellite meeting of the World Forestry Congress in Antalya, Turkey. Detailed information will

be obtained from: Albert Goettle, Bayr. Staatsministerium für Landesentwicklung und Umweltfragen, Rosenkavalierplatz 2, D-81925 München, Germany. Fax:+49-89-9214-4302

- 4) The Ad Hoc Working Group on Landslide Triggered Debris Flows edited a special issue on "Landslide Triggered Debris Flows" of the monthly journal CHIKYU MONTHLY (ISSN 0387-3498) as Vol.19, No.10 (No.220) in 1997. It is available from Kaiyo Publisher, Japan. E-mail:QYJ04256@niftyserve.or.jp, fax:+81-425-94-2924.
- 5) Organization of IUFRO Division 8 Conference "Environmental Forest Science". This first divisional conference is being successfully organized with grants from the Japanese Ministry of Education, Sciences, Culture and Sports, and also IUFRO-SPDC, IUFRO-Japan. 7 Research group sessions of Division 8 and 14 Ad Hoc sessions are proposed. They are organized depending on the accepted papers in the conference. The details of the conference can be seen in the internet home page below, and online registration for the conference is possible through the home page <http://www.bio.mie-u.ac.jp/iufro8/bulletin2.html>.

Kyoji Sassa

INTERNATIONAL RELATIONS TASK FORCE (February 1996 to September 1997)

Background

The International Relations Task Force was created by IUFRO's Executive Board in its XXXIV Meeting held in Sopron, Hungary, in February 1996.

The Task Force is intended to: a) inform the Executive Board of current issues and initiatives dealing with forestry and their implications in research; b) identify IUFRO's expertise in relevant forestry topics, important in association with mega-tendencies, so that it may get involved through its various working parties and research groups; c) prepare state-of-the-art reports and shopping lists of research needs; and d) assist in improving IUFRO's image and in establishing collaboration with international agencies and initiatives. It would report to the full Board at its annual meeting and, in some cases, may need action from the Board.

Output and Outcome

The Task Force has been fairly active through the President of the IUFRO Board and the Council, Professor Jeff Burley, and the Executive Secretary, Heinrich Schmutzenhofer, and the members of the Board.

Under the Task Force, the main activities carried out consisted of representing the organization at important fora and meetings as shown in Annex 1. In all these fora and meetings, IUFRO's presence, and its voice and points of view were welcome.

Additionally, the Task Force identified a group of institutions and initiatives where IUFRO could play an important role maintaining a presence or, in some instances, presenting its points of view. Those institutions and initiatives are presented in Annex 2.

Conclusions

In general, it is concluded that most of the international relations are carried out in an ad hoc manner by several EB members, mostly the President and the Secretariat. The Task Force's work was limited to representing IUFRO at the most relevant meetings dealing with forestry at an international level.

IUFRO has been well represented at most of the important initiatives and events of its interest, and its image and

reputation have been enhanced. Both Professor Jeff Burley and Mr. Heinrich Schmutzenhofer play a key role in IUFRO's international relations but most other EEB Members have been active in national or regional initiatives.

Recommendations

It is recommended that the Task Force be closed, effectively at the end of September, and that its responsibility be handled by the President, Professor Jeff Burley with the collaboration of all EB Members and the Secretariat, as needed.

It is also recommended that the Task Force on Networking develop a Web site within the IUFRO Web pages to report on international activities and initiatives going on, the points of view that IUFRO should present in those fora

and initiatives, and the reports of those people attending at the representation of IUFRO, which should be prepared by the Secretariat.

IUFRO should also establish a programme, drafted at the Secretariat, in which it will define its relations with the donors, especially the United States, the three Nordic countries, Finland, The Netherlands, Germany, Austria, Switzerland, Japan, and the European Union. Idem with funding agencies such as foundations or multilateral organizations. This is very important vis-à-vis the Special Programme for Developing Countries, and other initiatives aimed at strengthening the representation of developing countries' institutions in the IUFRO membership.

Ruben Guevara

ANNEX 1 - IUFRO REPRESENTATIONS CO-ORDINATED BY THE TASK FORCE ON INTERNATIONAL RELATIONS AND THE SECRETARIAT

<i>Date</i>	<i>IUFRO Represented by</i>	<i>Forum or Event</i>
September 1996	Jerry SESCO	ICSU, General Assembly, USA
September 1996	Jeff Burley	Intergovernmental Panel on Forests Meeting in Switzerland
October-November 1996	Jeff Burley	2nd Australian National Conference on Sustainable Forest Management
November 1996	Jeff Burley	Quebec Council of Forest Research, Canada
November 1996	Kay Susuki	ITTO Council, Japan
November 1996	Ruben Guevara	Idem
November 1996	Fred Pollett	IUCN General Assembly, Canada
November 1996	Phil Cannon	FAO's Latin American Forestry Commission Meeting, Panama
November 1996	Robert Szaro	CGIAR Centres Week, USA
Various dates	H. Schmutzenhofer	Helsinki (Pan-European Process), Finland, Belgium, Austria, Switzerland
February 1997	Jeff Burley	Board of Trustees, CIFOR Indonesia
March 1997	Roberto Szaro	APAFRI Meeting, Vietnam
	Jeff Burley and H. Schmutzenhofer	Idem
March 1997	Jeff Burley	Idem
		New Zealand Forest Research Institute's 50th Anniversary
April 1997	H. Schmutzenhofer	ICRAF Board of Trustees, Kenya
May 1997	Jeff Burley	15th Commonwealth Forestry Conference, Zimbabwe
May 1997	Rubén Guevara	ITTO Council, Bolivia
May 1997	William Cordero	Idem
May 1997	David Flinn	Montreal Process (Expert Meeting), Switzerland
June 1997	Jeff Burley	UK Forestry Research Station, 50th Anniversary

ANNEX 2 - INSTITUTIONS AND INITIATIVES OF IMPORTANCE TO IUFRO'S INTERNATIONAL RELATIONS

A. INSTITUTIONS

- CGIAR - Centres such as: IPGRI, ICRAF, CIFOR, ISNAR, and IFPRI.
- CITES - International Convention on International Trade with Endangered Species, and its Timber Working Group
- EFI - European Forest Institute
- ETRN- European Tropical Forestry Research Network
- FSC - Forest Stewardship Council
- ICSU - International Council of Scientific Unions
- IGWF - Inter-governmental Group on World Forests
- Helsinki (Pan-European Process)
- Inter-governmental Panel on Climate Change
- Inter-governmental Panel on Biodiversity
- Inter-governmental Panel on Desertification
- ITTO- International Tropical Timber Organization
- IUCN- International Union for the Conservation of Nature
- Montreal Process
- Regional Development Banks: such as IDB, ADB, African Development Bank
- Swedish Academy of Sciences: Secretariat General on Boreal Forests
- UN - Organizations such as: UNEP, FAO, PNUD, UNESCO, the UN Commission for Sustainable Development and its activities of the Intergovernmental Forum on Forests (IFF);
- WBCSD - World Business Council for Sustainable Development
- WCFSD - World Commission on Forests and Sustainable Development
- WCMC - World Conservation Monitoring Center
- World Bank
- WRI - World Resources Institute
- WWF- World Wildlife Fund for Nature, and its National Chapters throughout the world.

B. INITIATIVES

- Biodiversity conservation (Intergovernmental Commission on Biodiversity) Certification (ITTO, FAO, FSC, et.al.)
- Criteria and indicators for sustainable development (in particular those concerning forests and related endeavours): ITTO, FAO, CFSD, et al.
- Deforestation (FAO, RJCN, WWF, etc.)
- Forest valuation and environmental products and services derived from forests (IUCN, CATIE, UNEP, etc.)
- Fresh water and soil conservation (IUCN, UNCSD, etc.)
- Global Warming (WCMC, Intergovernmental Commission on Climate Change)
- International Trade as it affects forestry (WTO, ITTO, FAO, World Bank, UNCTAD)
- Non-wood forest products (IUCN, CATIE, FAO)
- Telecommunications and information systems as applied to research management and dissemination of results. (ISNAR, CATIE)
- ISO Standard (UNCTAD, ISO)

IUFRO'S SPECIAL PROGRAMME FOR DEVELOPING COUNTRIES

This past year has proven to be extremely productive, with IUFRO's SPDC being re-examined and restructured. The current Programme (1997 - 2000) builds on some of the strengths from former programmes but adds a number of new elements and approaches to the delivery of IUFRO-SPDC activities and products. It was approved at the EB meeting in Rome and will be implemented as funding permits.

An important step in tracking the expectations of those that we wish to support was that IUFRO-SPDC sent out a questionnaire re the *Information Bulletin for Developing Countries*. Because of the low response rate from our questionnaire to subscribers, the high costs of printing and mailing, uncertainties over the future of FAO's International Information System for the Agricultural Sciences and Technology (AGRIS) and the increasing availability of the abstracts electronically or in CD-ROM formats from FAO, it was decided that the publication of the *Information Bulletin* should be terminated following the mailing of the 1997 summer issue and that an SPDC insert in *IUFRO News* should be produced in its place. Funds saved by discontinuing the *Bulletin* will be reallocated to increase funding available for scientist assistance. In addition to current Programme information provided in the SPDC insert of *IUFRO News*, IUFRO-SPDC will produce an annual Special Paper that includes overarching introductory articles and targeted bibliographies on selected themes of particular interest to developing-country scientists.

Activities

Information dissemination - Two issues of the *Information Bulletin for Developing Countries* were produced in 1997. These contained news of research projects, publications, training courses, funding sources, and the SPDC. Both issues also included selected references to forestry literature from the AGRIS database, coordinated by FAO, and were distributed free of charge to some 1250 individuals who requested it. The first new insert in *IUFRO News* (no. 4, 1997) was distributed using the IUFRO mailing list and the revised IUFRO-SPDC mailing list. In the future, SPDC news will be distributed only to IUFRO members.

Strengthening national capacities in forestry research in sub-Saharan Africa - In summer 1996, a draft Project Formulation Framework (PFF) and a project document were prepared by FAO and IUFRO-SPDC and sent for comments to countries and organizations concerned and to potential donors. The project document incorporates comments received on the PFF and was prepared in mid-July 1997 at FAO (Rome) by Bob Szaro, Pape Sall and Oudara Souvannavong. Partners and potential donors were then invited to participate in a regional consultation on forestry

research at the FAO Regional Office, Accra, Ghana, scheduled for 30 September to 2 October 1997 (*Summary Report from Expert Consultation* available in *IUFRO News*, vol. 26, 1997). Many of the issues and needs identified at the Accra Meeting are common to all regions, while others are specific to sub-Saharan Africa. Through the consultation process, the final project document as well as parallel proposals by IUFRO-SPDC will be finalized and sponsorship sought. The cooperative spirit of all those involved, their frankness in discussing problems, and their willingness to offer solutions have been encouraging. We look forward to working closely with the African Academy of Sciences and the existing sub-regional networks in our common goal of building forestry research capacity and networking.

Search for Deputy Coordinator for Africa (DCA) - This past summer we intensified the search process for DCA candidates and re-issued our advertisement in both English and French. Numerous notices were sent throughout Africa, especially to IUFRO member institutes in the Region. The FAO Forestry Department was instrumental in helping us distribute this information. We received many highly qualified applicants and the top two were invited for interviews at the EB meeting in Rome. At that meeting, Dr. Yapi from Côte d'Ivoire was offered the DCA position.

BIO-REFOR workshops - IUFRO-SPDC sponsored its 6th annual BIO-REFOR workshop organized with the support of the Japanese Ministry of Foreign Affairs' Official Development Assistance Program and AusAID. This workshop, entitled „Overcoming Impediments to Reforestation: International Workshop on Tropical Forest Rehabilitation in the Asia-Pacific Region“, was held 2-9 December 1997 and hosted by the University of Queensland, Australia.

Carpathian Mountains Project. Forest health and biodiversity - Coordinator Szaro travelled to Washington, D.C. to develop a proposal to enhance research capacity in Eastern Europe. He was successful in securing a commitment from the USDA Foreign Agricultural Service for a three-year period. Under the terms of this grant, a cooperative research programme has been initiated to address the effects of air pollutants on biodiversity conservation, ecosystem management and sustainability criteria relating to forest management in the Carpathian Mountains. The primary outputs of the project will be stronger scientific expertise and capability in the Czech Republic, Poland, Romania, Slovakia, and the Ukraine and a network of scientists in Eastern Europe. A planning workshop was held 3-7 November 1997 in Smolenice, Slovakia.

Coordinated research project on agroforestry - International Atomic Energy Agency (IAEA) / FAO / IUFRO-SPDC - IUFRO-SPDC contributed to the development of an IAEA Agroforestry Cooperative Research Programme (CRP). IUFRO's Agroforestry Coordinator, Dr. Fergus Sinclair (1.15.00), was invited to participate in a CRP workshop held 8-10 September 1997 in Vienna, Austria. IUFRO-SPDC will have the opportunity to recommend scientists from IUFRO member institutes for FAO/IAEA training courses on ¹⁵N techniques for studying nutrient cycling and on the use of neutron probes for determining water flows. SPDC will consult with IUFRO agroforestry experts in the development of the coordinated research project and will recommend developing-country institutions that may wish to participate in the five-year project.

Research capacity building in Latin America - IUFRO-SPDC continued its efforts to enhance research capacity in Latin America by providing scientist assistance, by promoting existing research networks, and by contributing to project formulation. Discussions were held with **BOLFOR** (Bolivia), the Brazilian Agricultural Research Agency - National Program for Forestry Research (Empresa Brasileira de Pesquisa Agropecuária, **EMBRAPA**), the University of Viçosa (Universidade Federal de Viçosa, **UFV**), Instituto de Pesquisas Tecnológicas (**IPT**), and **Instituto Florestal** (Brazil) to enhance networking and to develop projects that IUFRO-SPDC can take to potential donors. With some or all of these partners, IUFRO-SPDC proposes to act as a catalyst to foster several joint-venture initiatives including those on sustainable forest harvesting, forest-health decision support systems, and agroforestry in Latin America and the Caribbean described in further detail in the following three sections.

Sustainable forest harvesting - SPDC has initiated discussion with FAO and BOLFOR to address forest harvesting at varying intensities in Bolivia. IUFRO-SPDC drafted a framework document, assisted with project formulation, and plans to submit a proposal to funding agencies. FAO has agreed to participate by funding a forest harvesting case study. This project could provide an opportunity to enhance networking and research capacity in the Region and offers a vehicle for training.

Forest-health decision support systems: a primer for Latin America - IUFRO-SPDC is assisting in the development of a forest health training course designed for forest managers in Latin America. The course will be lead by Dr. Rene I. Alfaro, Natural Resources Canada - Canadian Forestry Service, in close collaboration with partners from Latin America. The aim of the proposed proposal is to address regional needs and foster twinning, capacity-building, inter-institute collaboration and networking among organizations and between North-South countries. The objectives of the training course are (i) to provide

practicing foresters and resource managers with knowledge to make informed decisions on how to manage forests affected by insects, diseases and pollutants; (ii) to provide new tools and training to scientists in developing countries. Subject to funding, a range of generic modules (chapters) will be developed for the course and IUFRO-SPDC proposes to begin the practical training with a workshop (field course) in Chile. Later, cooperative work with interested partners in Mexico and the Caribbean is planned. IUFRO-SPDC seeks to place the training course on the IUFRO web site and to consider it for a pre-Congress workshop for IUFRO's Congress 2000 in Malaysia.

Agroforestry in Latin America and the Caribbean - IUFRO-SPDC proposed a cooperative agroforestry project in Brazil lead by Universidade Federal de Viçosa (UFV) and Empresa Brasileira de Pesquisas Agropecuária (EMBRAPA). This initiative has support from the **Latin American Information Network** (Red de Información Forestal para América Latina y Caribe). Interface with the **Latin American Technical Cooperation Network on Agroforestry** sponsored by the FAO Regional Office has occurred and cooperation from this regional network will be further developed. In July 1997, a working group was established to begin project formulation and IUFRO-SPDC has promoted a detailed formulation of this interdisciplinary proposal. A background paper completed by Dr. Laércio Couto et al. from UFV that summarizes the role of *Eucalyptus* spp. in Brazilian agroforestry is under review. The paper will be published in Portuguese and in English.

Travel assistance and grants - This year we received over 100 requests for travel grants to attend over 40 separate meetings. We supported 34 individuals and 9 meeting organizers to a total of US\$ 54,303. Cost-sharing by applicants or their employers will cover an additional several thousand dollars of expenses. Winners of SPDC grants travelled to IUFRO-sponsored meetings in all five continents.

Personnel - News

Dr. Wade Bowers from the Canadian Forest Service started as Deputy Coordinator for Programme on 1 April 1997.

Martina Melville, Administrative Assistant, departed IUFRO-SPDC to pursue new career challenges. We thank Martina for her long and outstanding contribution to SPDC and we are sorry to see her depart IUFRO-SPDC. Currently, we are working with the Secretariat to re-evaluate staffing needs and methods of operation in Vienna.

Finances

The balance on hand at the end of the year was US\$ 883,470. The Government of Japan was again the primary source of receipts with their seventh grant for the series of BIO-REFOR workshops and core support to SPDC. SPDC is

indebted to the Japanese Foreign Ministry for their long-term support. Without their assistance SPDC would be unable to continue many of its programmes. IUFRO-SPDC is also indebted to the Danish Foreign Ministry (DANIDA), the Canadian Forest Service (CFS), the USDA Foreign Agricultural Service and, the USDA Forest Service.

With the arrival of Wade Bowers and the selection of the Deputy Coordinator for Africa, the IUFRO-SPDC 1997 budget was adjusted to reflect both these changes. Projections for total expenses given at the EB meeting in South Africa of US\$ 443,500 have been revised downward to 417,020. This includes both projected reductions from suspending the publication of the *Bulletin*, the delay in hiring the Deputy Coordinator from Africa, the unexpected departure of our Administrative Assistant, and increases for personnel maintenance and travel. IUFRO-SPDC's budget will end with a small surplus in 1997.

Administration

IUFRO-SPDC remains co-located with the Secretariat in Vienna, sharing facilities, services and staff as per mutual agreement and within the framework of IUFRO's Statutes and Internal Regulations and the provisions of Austrian law and regulations to which IUFRO is subject. It continues to use the services of the Treasurer's Office for receiving and depositing payments, investing and managing funds, making disbursements, keeping track of transactions and fund balances, suggesting changes in accounting system and financial practices. This year IUFRO-SPDC and the Secretariat agreed to several changes. The budgeting procedures have been standardized and all financial expenditures in Vienna are now part of a common accounting system. The Secretariat and IUFRO-SPDC continue to explore ways to integrate activities to make better use of our limited resources.

Travel

In 1997, the IUFRO-SPDC Coordinator travelled to Rome three times, in January, February, and July, to work on the development of the FORNESSA proposal. In February he also travelled to Washington to develop the proposal to the USDA Foreign Agricultural Service for work in Eastern

Europe and to attend the Forestry Advisors Group Meeting in New York at the request of the IUFRO President. The Coordinator participated in the APAFRI, FORSPA & Heads of Forestry Research Meetings in Ho Chi Minh, Vietnam, 24-29 March; consulted with colleagues at CIFOR in Bogor, Indonesia, 29 March – 2 April; met with the Japanese Ministry of Foreign Affairs, representatives from IUFRO/Japan and BIO-REFOR, 11-19 April; and concluded work on the USDA Forest Service's Ecological Stewardship Workshop in Portland, Oregon, 24 April to 9 May (paid for by the USDA Forest Service). After attending the EB meeting in Rome, he attended the Heads of Forestry Research Meeting in Accra, Ghana, 30 September – 2 October, which was co-sponsored by IUFRO-SPDC and FAO.

Both Coordinator Szaro and Deputy Coordinator Bowers attended the World Forestry Congress in Antalya, Turkey, 14-19 October, and the Carpathian Mountains Workshop, held in Zvolen, Slovakia, 3-7 November. Szaro returned to Washington, D.C., 19-25 November, for meetings with the USDA Forest Service; participated in the BIO-REFOR Workshop, Queensland, Australia, 2-9 December; and met with AusAID in Canberra on 10 December.

The IUFRO-SPDC Deputy Coordinator travelled to Bolivia and Brazil in July to solicit input from the region for development of the IUFRO-SPDC programme in Latin America. During this visit, workers in the region were informed about IUFRO-SPDC's direction and discussions were held with regional forestry networks and personnel.

Acknowledgments

We would like to thank Dr. Oscar Fugalli, former IUFRO-SPDC Coordinator, and Drs. Helga Schmidt and Christine Krieger of FAO's AGRIS Processing Unit in Vienna for all their help in selecting and printing the abstracts we used over the years in the publication of the *Bulletin*. Without their assistance the *Information Bulletin for Developing Countries* would not have been possible.

Robert C. Szaro, Coordinator
Wade W. Bowers, Deputy Coordinator

IUFRO AWARDS 1997

Distinguished Service Award

Harold. F. Kaiser, USA
Per Olav Nilsson, Sweden
Robert A. Plumtre, United Kingdom
Amantino Ramos de Freitas, Brazil

Honorary Membership

Howard Kriebel, USA

Certificate of Appreciation

Isabella Pontecorvo, FAO, Italy
Hosny El-Lakany, FAO, Egypt
David Flinn, Australia
Ladislav Paule, Slovakia

SYLVAVOC

SylvaVoc was conceived as a service unit within the IUFRO Secretariat and as a clearinghouse for terminological activities in forestry. With the aim to ensure high-quality and continuity of terminology work, it is based on the cooperation with the many forestry experts who are represented in the IUFRO structure and IUFRO-Net.

The year 1997 was marked by the decision of ODA Japan to continue the financial contribution to the project and the cooperation on terminological issues. This allowed SylvaVoc to progress in the realisation of its programmed activities and finalization of some project elements.

The first phase of activities in the field of information and documentation and the basis for the service character of SylvaVoc was accomplished with the publication of the IUFRO Occasional Paper No. 8, 'International Bibliography of Forest Dictionaries, Glossaries and Terminological Publications'. The complete document is also available since August 1998 as a searchable document on the SylvaVoc Web-site at <http://iufro.boku.ac.at/iufro/sylvavoc/hpsv.htm>. The file is regularly up-dated and completed with additional references received.

The comparative study on terminology related to Forest Resources Assessment was delivered to FAO in February 1997 and after technical clearance, it was distributed to a wider public, mainly to C& I resource persons. We are grateful that at the end of the year FAO decided to propose another cooperation on forest genetic resources terminology.

The cooperation with experts from the IUFRO structure was pursued especially with respect to the comparative study, with the preparations together with 6.03.02 for a

Workshop on 'Multilingualism and Expert Cooperation in Forest Terminology' to be held in Switzerland in June 1998 and with contributions to the future term database and the Terminology of Forest Management Planning.

A third cooperation meeting on the Terminology of Forest Management Planning took place in Vienna in November 1997. All participants had delivered the requested definitions. The discussions involved the final order of the terms in the publication, the differences in definition in the respective languages and the final outline of the publication to come out in 1998 as a IUFRO World Series volume.

The need of a terminological database for forestry became evident. At the end of 1997 a cooperation agreement was signed with the International Society for Environmental Protection (ISEP) and provided SylvaVoc and the IUFRO Secretariat with a meta-model and the specific conceptual data model for terminology and reference data which corresponds to the state-of-the-art. The technical solution was also implemented in the framework of the European Environment Agency and in a project with the United Nations Office in Vienna.

With the continued financial assistance of Japan, FAO's positive attitude and support of IUFRO's activities in forest terminology, SylvaVoc will be in a position to deliver the results that are programmed for 1998, e.g. publication of a Terminology of Forest Management Planning, the access to the term database and emphasis on terminological activities of the IUFRO working units on specific forestry subjects.

R. Prüller

FINANCES

For the first time, a general statement in Swiss Francs was prepared for IUFRO for the financial year 1997. This statement has been entitled IUFRO/UNION and includes the individual statements for the three sub-units:

IUFRO (Secretariat and Treasurer's Office)
SPDC (Special Programme for Developing Countries)
TERMINOLOGY (SylvaVoc Project)

The account scheme was also redefined for 1997 so that direct comparison with 1996 is not always possible.

Table 1: IUFRO/UNION Profit and Loss Account Details

Given an income of CHF 1 382 593 and expenses of CHF 1 131 880, the profit and loss account of IUFRO/UNION for 1997 shows an excess of income over expenditure of CHF 250 713. This amount, however, is not a profit in real terms but results mainly from the following two facts:

- 1) A reduction of reserves for outstanding debts by CHF 20 000 could be achieved by value adjustment.
- 2) Money received in the year under review is earmarked for payments in 1998:

2a) IUFRO

In 1997 the Secretariat received an advance payment for 1998 from the SPDC (see SPDC "Developing Countries" Account below).

2b) SPDC

An extra grant received in 1997 for the installation of a new Deputy Coordinator in Africa is due to be spent in 1998.

2c) Terminology

In the year under report, Terminology received subsidies from Japan for the SylvaVoc project. Since it had been agreed with the Japanese partners that the contributions for Japan-related tasks within the SylvaVoc project would only have to be made in 1998, the expenses for Japan in 1997 were lower than budgeted.

**Table 2: IUFRO /SPDC
Profit and Loss Account**

Please find more information about SPDC Finances in the SPDC Annual Report on pages 21 to 23.

**Table 3:
IUFRO/Secretariat and Treasurer's Office
Profit and Loss Account Details**

INCOME

Secretariat in Vienna

In 1997 the subsidy of the Austrian Government for IUFRO amounted to CHF 86 397 of which CHF 60 961 were paid for **wages and salaries** and CHF 25 436 for the **rental costs**.

Treasurer's Office in Zurich

The net income from **membership dues** was CHF 38 498 lower than last year.

	1997	1996	1995
Membership dues	312 070	324 665	292 220
Membership dues written off	<u>40 764</u>	<u>14 861</u>	<u>26 751</u>
Total	271 306	309 804	265 469

The reduction of income is due to the fact that in the year under report long-term debtors did not receive an invoice but were reminded to pay the outstanding debts of the previous years as soon as possible, otherwise their membership would be terminated by IUFRO.

EXPENSES

Secretariat in Vienna

In comparison to 1996, the expenses for **wages and salaries** dropped by 23.7% because in 1997 the salary expenses for the terminology project were separated from the Secretariat's expenses. The **printing** costs for the new advertising brochure had not been budgeted which produced an increase of expenses. **Other expenses** include the annual membership dues for ICSU and necessary expenses for renovation work.

Treasurer's Office in Zurich

A sum of CHF 40 764 was **written off** from the outstanding debts of 1997. At the same time, however, it was possible to reduce the sum reserved for outstanding debts. The **Development Fund interests** for 1997 were not transferred to the SPDC. In return, IUFRO renounced the reimbursement of the interest crediting resulting from SPDC's investment of the money from Japan. The fee charged by the Zurich trust office for the 1996 audit amounts to CHF 1 598. In the previous year the sum was twice as high because **auditing** costs for two years - 1994 and 1995 - had to be paid.

Annex to the Annual Account

1) Membership

New members: 18 ordinary/14 associated
Withdrawals: 81 ordinary/14 associated

Members as of December 31, 1997:

Ordinary members: 489
Sub and sub-sub-members: 171
Total/member institutes: 660
Associated members: 74

2) Secretariat

A sum of CHF 378 000 had been budgeted for the expenses of the Secretariat. The actual expenditure remained below this amount by CHF 26 272.

3) SPDC "Developing Countries" Account

The SPDC accounts kept by the Secretariat in Vienna were audited by Alpentreuhand, Vienna, and found to be correct according to the auditing report of March 1998. A share of CHF 213 230 (ATS 1 950 227) of the total expenses of CHF 590 500 was paid by IUFRO for the SPDC. This sum includes salaries, expenditure refunds for the Co-ordinator, printing and office costs, in particular. In 1997, these expenses were fully returned to IUFRO by the SPDC. In addition, SPDC made advance payments of CHF 84 270 (USD 49 043) to the Secretariat for 1998.

**Table 4: IUFRO/Terminology
Profit and Loss Account Details**

INCOME

In the year under report, Terminology received an equivalent of CHF 202 000 (USD 150 000) from Japan as a subsidy for the SylvaVoc project. Another payment of CHF 6 859 (USD 5 000) was received from FAO.

EXPENSES

The budget could basically be adhered to; in most cases expenses were even below the budgeted amounts.

*Treasurer's Office
(adapted and abridged)*

Table 1 IUFRO/UNION: Profit and Loss Account as of December 31, 1997, in Swiss Francs

<i>Expenses</i>		<i>Income</i>	
	<i>Annual Account 1997</i>		<i>Annual Account 1997</i>
	<i>CHF</i>		<i>CHF</i>
IUFRO		IUFRO	
Personnel Costs	140 303	Income	489 530
Operating Costs	<u>260 560</u>		
	400 863		
Profit	88 667		
	489 530		489 530
TERMINOLOGY		TERMINOLOGY	
Personnel Costs	112 432	Income	225 314
Operating Costs	<u>28 085</u>		
	140 517		
Profit	84 797		
	225 314		225 314
SPDC		SPDC	
Personnel Costs	106 223	Income	667 749
Operating Costs	<u>484 277</u>		
	590 500		
Profit	77 249		
	667 749		667 749
TOTAL: IUFRO/UNION		TOTAL: IUFRO/UNION	
Personnel Costs	358 958	Income	1 382 593
Operating Costs	<u>772 923</u>		
	1 131 880		
Profit	250 713		
	1 382 593		1 382 593

Table 2 IUFRO/SPDC: Profit and Loss Account as of December 31, 1997, in Swiss Francs

<i>Expenses</i>			<i>Income</i>		
	<i>Annual Account 1997</i>			<i>Annual Account 1997</i>	
	<i>CHF</i>	<i>USD</i>		<i>CHF</i>	<i>USD</i>
Salaries	40 122	29 746	Sales FORSTAT and RES	996	765
Other Personnel Costs	<u>66 101</u>	<u>49 036</u>	Interests	57 641	42 259
Total Personnel Costs	106 223	78 800	Other Income	4 863	3 608
Travel	47 993	35 603	Grants/Agreements	<u>604 249</u>	<u>448 256</u>
Printing	16 317	12 105	TOTAL INCOME	667 749	494 887
Postage	8 972	6 656			
Telecom	5 537	4 107			
Bank Charges	6 313	4 683			
Office Supplies	2 569	1 905			
Rent	3 095	2 296			
New Equipment/Write-offs	16 778	12 447			
Legal Expenses/Auditing	2 851	2 115			
Other Costs	61 869	45 897			
Sponsorship/Awards	<u>311 984</u>	<u>231 442</u>			
Total Operating Costs	484 277	359 256			
TOTAL EXPENSES	590 500	438 057			
Profit	77 249	56 831			
	667 749	494 887	TOTAL INCOME	667 749	494 887

Table 3 IUFRO Secretariat/Treasurer's Office, Profit and Loss Account as of Dec. 31, 1997, in CHF

<i>Expenses</i>			<i>Income</i>		
	<i>Ann.Acc.1997</i>	<i>Ann.Acc.1996</i>		<i>Ann.Acc.1997</i>	<i>Ann.Acc.1996</i>
Secretariat Vienna			Secretariat Vienna		
Salaries	131 125	171 846	Contributions by the Austrian Government:		
Other Personnel Costs	<u>9 178</u>		- Salaries	60 961	93 761
Total Personnel Costs	140 303	171 846	- Rent	25 436	
Travel	37 512	27 797	Other Income	<u>12 325</u>	<u>446</u>
Printing	45 503	24 624			
Postage	44 307	50 378			
Telecom	12 072	14 881			
Bank Charges	2 537				
Office Supplies	4 140	42 747			
Rent	31 634				
New Equipment/Write-offs	17 635				
Legal Expenses + Auditing	4 385	5 671			
Other Expenses	9 626	2 997			
Sponsorship/Awards	<u>2 075</u>	<u>9 415</u>			
Total Operat. Costs Vienna	211 425	178 510			
TOTAL EXP. VIENNA	351 728	350 357	TOTAL INCOME VIENNA	98 722	94 207
Treasurer's Office Zurich			Treasurer's Office Zurich		
President's Office	1 893	1 151	Membership Dues	312 070	324 665
Write-offs	20 764	44 861	Sale of Publications	3 403	3 451
Loss on Exchange		7 641	Interests	69 146	52 255
Bank Charges	6 956	6 414	Profit on Exchange	5 729	297
Development Fund Interests		8 500	Other Income	460	
Legal Expenses + Auditing	1 598	3 195			
Congress Costs	17 914	16 046			
Other Costs					
Total Operat. Costs Zurich	49 135	87 809	Total Income Zurich	390 808	380 668
Total Operat. Costs Vie+Zur	260 560	266 319			
TOTAL EXPENSES	400 863	438 166	TOTAL INCOME	489 530	474 874
Profit	88 667	36 709			
	489 530	474 874			

Table 4 IUFRO Terminology, Profit and Loss Account as of Dec. 31, 1997, in Swiss Francs

<i>Expenses</i>	<i>Ann.Acc.97: CHF</i>	<i>USD</i>	<i>Income</i>	<i>Ann.Acc.97: CHF</i>	<i>USD</i>
Salaries	112 432	84 293			
Other Personnel Costs			Grants and Agreements	209 059	155 000
Total Personnel Costs	112 432	84 293	Profit on Exchange	<u>16 255</u>	
Travel	8 071	5 987			
Printing	3 129	2 322			
Postage	2 216	1 644			
Telecom	2 836	2 104			
Bank Charges	169	125			
Loss on Exchange	994				
Office Supplies	1 253	929			
Rent/Leasing					
New Equipment/Write-offs	73	54			
Legal Expenses + Auditing					
Other Expenses incl. Japan	2 738	2 032			
Sponsorship/Awards	<u>6 607</u>	<u>4 901</u>			
Total Operating Costs	28 085	20 097			
TOTAL EXPENSES	140 517	104 391	TOTAL INCOME	225 314	155 000
Profit	84 797	50 609			
	225 314	155 000		255 314	155 000

MEMBERSHIP

805.00.00

Faculty of Forest Sciences
National University of Santiago del Estero
Avda. Belgrano 1912 (S)
4200 Santiago del Estero
Argentina

806.00.00

Bureau of Resource Sciences
PO Box E11
Kingston 2604
Australia

809.00.00

Australian Newsprint Mills Limited
Forest Management Division
Hamilton Road
New Norfolk, Tasmania 7140
Australia

811.00.00

CPTI - Technology & Development
Av. Eng. Billings 526
Jaguare
Sao Paulo, SP 05321-010
Brazil

810.00.00

Institute for Forest Ecosystems Research Ltd.
PO Box 1544
254 01 Jilove u Prahy
Czech Republic

699.00.00

Estonian Agricultural University
Faculty of Forestry
Kreutzwaldi 5
2400 Tartu
Estonia

804.00.00

Saxon State Institute for Forestry
Bonnwitzter Str. 34
D-01827 Graupa
Germany

800.00.00

ITC Bhadrachalam Paperboards Limited
106, Sardar Patel Road
Secunderabad 500 003
India

803.00.00

Kyoto University
Disaster Prevention Research Institute

Admissions 1997

Gokasyo
Uji, Kyoto 611
Japan

807.00.00

Borneo Pulp & Paper Sdn. Bhd.
PO Box 1657
97008 Bintulu
Sarawak
Malaysia

621.00.00 (Reinstatement)

Institute of Rural Economy of Mali
BP 258
Bamako
Mali

802.00.00

Forest Plantations of the Southeast S.A. of C.V.
4.5 km Carretera Las Choapas
Las Choapas, Veracruz 96980
Mexico

813.00.00

National Institute of Agricultural Research of Niger
BP 429
Niamey
Niger

814.00.00

Forestry Faculty of Süleyman Demirel University
S.D.Ü. Orman Fakültesi
32670 Atabey, Isparta
Turkey

812.00.00

Mountain Forestry Research Institute
31, Hrushewsky St.
284000 Ivano-Frankivsk
Ukraine

808.00.00

De Montfort University
School of Agriculture & Horticulture
Landbased Research Management Group
attn. Tony M. Cowell
Risehome Hall, Lincoln LN2 2LG
United Kingdom

801.00.00

Instituto Nacional de Investigacion Agropecuaria
Ruta 5 - km. 386
CP 45000, Tacuarembó
Uruguay

Withdrawals 1997

194.01.00

CSIRO Forestry and Forest Products
Plantation Forest Research Centre
The Librarian
PO Box 946
Mount Gambier, South Australia 5290
Australia

585.00.00

Australian National University
Centre for Resource and Environmental Studies
GPO Box 4
Canberra ACT 2601
Australia

174.01.00

Australian National University
Library (Hancock)
Anu / GPO Box 4
Canberra
ACT 2601
Australia

761.00.00

Studien- und Beratungsgesellschaft für Land- und
Forstwirtschaft sowie Umweltinformatik (STUGES)
Johannesgasse 15
A-1010 Wien
Austria

584.00.00

Duratex S.A.
Attn. Dr. Francisco Bertolani
Caixa Postal 18
18603-970 Botucatu
Brazil

052.06.00

Natural Resources Canada
Petawawa National Forestry Institute (PNFI)
PO Box 2000
Chalk River, Ontario K0J 1J0
Canada

699.00.00

Estonian Res. Inst. of Forestry and Nature Conservation
2 Rõõmu tee St.
2400 Tartu
Estonia

105.00.00

National Agency for Cellulose and Paper
Agricultural and Forest Experiment Center
Casella Postale 9079
00166 Roma, Italy

642.00.00

Italeco Spa (IRI-IRITECNA Group)
Via Carlo Pesenti 109
I-00156 Roma
Italy

036.08.11

USDA Forest Service
Southeastern Forest Experiment Station
School of Forest Resources & Conservation
PO Box 14524
Gainesville, Florida 32604
United States

552.00.00

US Department of Agriculture
CSREES-NRE
Room 329, Aerospace Bldg.
PO Box 2210
Washington D.C. 20250-0915
United States

036.05.02

USDA Forest Service
Pacific Northwest Research Station Silviculture
Laboratory
1027 NW Trenton Avenue
Bend, Oregon 97701
United States

036.09.01

USDA Forest Service
Southern Forest Experiment Station
Forest Hydrology Laboratory
PO Box 947
Oxford, Mississippi 38655
United States

036.09.05

USDA Forest Service
Southern Forest Experiment Station
Institute of Forest Genetics
PO Box 2008, GMF
Gulfport, Mississippi 39503
United States

036.09.08

USDA Forest Service
Southern Forest Experiment Station Plant Pathology
PO Box 2008, GMF
Gulfport, Mississippi 39505
United States

IUFRO Structure of Divisions ordered by Coordinators, Deputy Coordinators and Working Units

Division 1

C	Sennerby-Forsse Lisa	Sweden	1.00.00
D	Parrotta John	United States	1.00.00
D	Sachs Menachem	Israel	1.00.00
D	Salazar Rodolfo	Costa Rica	1.00.00
C	Brissette John	United States	1.05.00
D	Grosse W. Hans	Chile	1.05.00
D	Luis J.F.S.	Portugal	1.05.00
D	Puttonen Pasi	Finland	1.05.00
C	Kaunisto Seppo	Finland	1.05.01
D	Jeglum J.	Sweden	1.05.01
C	Grosse W. Hans	Chile	1.05.03
D	Zajackzowski Jan	Poland	1.05.03
C	Puttonen Pasi	Finland	1.05.04
C	Johann Klaus	Austria	1.05.05
D	Johansson U.	Sweden	1.05.05
C	Lust Noël	Belgium	1.05.06
D	Brooks R.T.	United States	1.05.06
D	Silva Natalino	Brazil	1.05.08
C	Aksoy Hüseyin	Turkey	1.05.11
D	Courbet Francois	France	1.05.11
D	Kerrouani Haddou	Morocco	1.05.11
D	Ozalp G.	Turkey	1.05.11
D	Navratil Stan	Canada	1.05.12
C	Hou Quing Jiang	China	1.05.13
D	Sidle Roy C.	Canada	1.05.13
C	Montero Gonzalez G.	Spain	1.05.14
D	Piussi Pietro	Italy	1.05.14
D	Schoenenberger Walter	Switzerland	1.05.14
C	Luis J.F.S.	Portugal	1.05.15
D	McCaughy W.	United States	1.05.15
D	Mercurio Roberto	Italy	1.05.15
D	Senn Josef	Switzerland	1.05.15
D	Vorobjev V.	Russian Federation	1.05.15
C	Eder Walter	Germany	1.05.16
D	Prpic Branimir	Croatia	1.05.16
C	Spiecker Heinrich	Germany	1.06.00
D	Rogers Robert	Germany	1.06.00
D	Somogyi Z.	Hungary	1.06.00
C	Vanclay Jerry	Indonesia	1.07.00
D	De las Salas F. Gonzalo	Colombia	1.07.00
D	Maitre Henri Felix	France	1.07.00
D	Sabogal Cesar	Indonesia	1.07.00
C	Finegan Bryan	Costa Rica	1.07.05
D	Silva Natalino	Brazil	1.07.05
C	Ewel Katherine C.	United States	1.07.08
D	Saenger Peter	Australia	1.07.08
C	Seitz Rudi	Brazil	1.07.09
D	Montagnini Florencia	United States	1.07.09
C	Simpson John	Australia	1.07.13
D	Bai Jiayu	China	1.07.13
C	Moutanda Antoine	Congo	1.07.14
D	Geldenuys Coert	South Africa	1.07.14
D	Kadio Adjumane Aimé	Côte d'Ivoire	1.07.14
C	Kandeel S.A. Ezzat	Egypt	1.07.15
D	Wrann Johannes	Chile	1.07.15
C	Donovan Deanna	United States	1.07.16
C	Maury-Lechon Gema	France	1.07.17
D	Balasubramaniam K.	India	1.07.17
D	Chan Hung Tuck	Malaysia	1.07.17
D	Elouard Claire	Malaysia	1.07.17
D	Thanh Phong Nguyen	Viet Nam	1.07.17
D	Turner I.	Singapore	1.07.17
C	Christersson Lars	Sweden	1.09.00
D	Lee Don K.	Korea (Rep)	1.09.00

D	Wright L.	United States	1.09.00
C	Abrahamson Lawrence	United States	1.09.01
D	Svadican K.	Denmark	1.09.01
C	Kenney W.A.	Canada	1.09.02
D	Verma K.S.	India	1.09.02
C	Paule Ladislav	Slovakia	1.10.00
D	Madsen Soren	Denmark	1.10.00
C	Glover G.	United States	1.13.00
D	Frochot H.	France	1.13.00
D	Wagner R.	Canada	1.13.00
C	Emmingham W.	United States	1.14.00
D	Liu Shirong	China	1.14.00
C	Sinclair Fergus L.	United Kingdom	1.15.00
D	Hsiung Wenyue	China	1.15.00
D	Khosla Prem Kumar	India	1.15.00
D	Prinsley Roslyn	Australia	1.15.00
C	Gold Michael	United States	1.15.01
D	Sibbald Alan	United Kingdom	1.15.01
C	Beer John	Costa Rica	1.15.02
D	Simons Tony	Kenya	1.15.02
C	Auclair Daniel	France	1.15.03
D	Van Noordwijk Meine	Indonesia	1.15.03
D	Scherr Sara	United States	1.15.04
C	Shelton Max	Australia	1.15.05
D	Thorne Peter	United Kingdom	1.15.05
C	Parrotta John	United States	1.17.00
C	Setiadi Yadi	Indonesia	1.17.01
D	Musat Ilie	Romania	1.17.01
C	Stanturf John	United States	1.17.02
D	Nair K.K.N.	India	1.17.02
C	Parrotta John	United States	1.17.03
D	Geldenuys Coert	South Africa	1.17.03
D	Lamb David	Australia	1.17.03
C	Sachs Menachem	Israel	1.17.04

Division 2

C	Teissier du Cros Eric	France	2.00.00
D	Luxmoore Robert J.	United States	2.00.00
D	Paule Ladislav	Slovakia	2.00.00
C	Cannell Melvin G.R.	United Kingdom	2.01.00
D	Chalupka Wladyslaw	Poland	2.01.00
D	Pereira Joao S.	Portugal	2.01.00
C	Horsley Stephen B.	United States	2.01.08
C	Sudachkova Nina E.	Russian Federation	2.01.10
D	Aloni Roni	Israel	2.01.10
D	Tyree Melvin T.	United States	2.01.10
C	Hallgren Stephen	United States	2.01.11
D	Wang Ya-Nan	China - Taipei	2.01.11
C	Whitehead David	New Zealand	2.01.12
C	Topa Mary A.	United States	2.01.13
D	Malajczuk Nicholas	Australia	2.01.13
C	Doulis Andreas	Greece	2.01.14
D	Hanninen Heikki	Finland	2.01.14
C	Kaufmann Merrill R.	United States	2.01.15
D	Cermak Jan	Czech Republic	2.01.15
D	McMurtie Ross	Australia	2.01.15
D	Paliwal Kailash	India	2.01.15
C	Chalupka Wladyslaw	Poland	2.01.16
D	Cecich Robert A.	United States	2.01.16
C	Roulund Hans	Denmark	2.01.17
D	Monteuiis Olivier	Malaysia	2.01.17
C	Matyas Csaba	Hungary	2.02.00
D	Okoro Ogonnaya Otusi	Nigeria	2.02.00

C Bastien Jean-Charles	France	2.02.05	C Ryans Mark	Canada	3.02.02
D Woods Jack	Canada	2.02.05	D Adam Gordon	United Kingdom	3.02.02
C Martinsson Owe	Sweden	2.02.07	D Mattson Staffan	Sweden	3.02.02
D Nagasaka Kazutoshi	Japan	2.02.07	C Mattsson Anders	Sweden	3.02.03
D Wyckoff Gary W.	United States	2.02.07	D Arnott James	Canada	3.02.03
C Skröppa Tore	Norway	2.02.11	D Herman Barri	United States	3.02.03
D Mikola Jouni	Finland	2.02.11	C Mikkonen Esko	Finland	3.04.00
D Sabor Janusz	Poland	2.02.11	D Field David	United States	3.04.00
C Ducci Fulvio	Italy	2.02.13	D McCormack Robert	Australia	3.04.00
D Aravanopoulos Philippos	Greece	2.02.13	D Nieuwenhuis Maarten	Ireland	3.04.00
D Fady Bruno	France	2.02.13	C Robak E.W. Ted	Canada	3.04.01
C Kriebel Howard B.	United States	2.02.15	D Kitagawa Katsuhiko	Japan	3.04.01
D Blada Ioan	Romania	2.02.15	D Marcos Francisco	Spain	3.04.01
D Khan Shams R.	Pakistan	2.02.15	D Reutebuch Stephen E.	United States	3.04.01
C Oleksyn Jacek	Poland	2.02.18	C Björheden Rolf	Sweden	3.04.02
D Goncharenko Grigori	Belarus	2.02.18	D Apel Karl	Germany	3.04.02
D Stahl Erik G.	Sweden	2.02.18	D Shiba Masami	Japan	3.04.02
C Ades Peter	Australia	2.02.19	D Thompson Michael A.	United States	3.04.02
D Balocchi Claudio	Chile	2.02.19	C Stokes Bryce	United States	3.05.00
D Carson Michael J.	New Zealand	2.02.19	D Castaneda Froylan	Italy	3.05.00
C Williams Claire	United States	2.02.20	D Elias	Indonesia	3.05.00
D Dieters Mark J.	Australia	2.02.20	C Heinimann Hans R.	Switzerland	3.06.00
C Hong Jusheng	China	2.02.23	D Abeli Willibard S.	Tanzania	3.06.00
C Adams W. Thomas	United States	2.04.00	D Sessions John	United States	3.06.00
D Koski Veikko	Finland	2.04.00	D Sever Stanislav	Croatia	3.06.00
D Vendramin Giovanni G.	Italy	2.04.00	C Guglhör Wolf	Bhutan	3.06.01
C Yeh Francis C.	Canada	2.04.01	D Gayoso J.	Chile	3.06.01
D Savolainen Outi	Finland	2.04.01	D Shiba Masami	Japan	3.06.01
C Bongarten Bruce	United States	2.04.02	C Pertlik Ewald	Austria	3.06.02
D Ericsson Tore	Sweden	2.04.02	D Abdul Rashid M. Farid	Malaysia	3.06.02
C Strauss Steven	United States	2.04.06	D Lisland Torstein	Norway	3.06.02
D Jouanin Lise	France	2.04.06	C Staudt Frits J.	Netherlands	3.07.00
C Schlarbaum Scott E.	United States	2.04.08	D Garland John J.	United States	3.07.00
D Borzan Zelimir	Croatia	2.04.08	D Lipoglavsek Marjan	Slovenia	3.07.00
D Butorina Anastasiya K.	Russian Federation	2.04.08	C Apud Elias	Chile	3.07.01
D Gill B.S.	India	2.04.08	D Rummer Bob	United States	3.07.01
C Ledig F. Thomas	United States	2.04.09	C Vik Tore	Norway	3.07.02
C Cromer Robin N.	Australia	2.08.00	D Kanninen Kaija	Finland	3.07.02
D Griffin A.R.	United Kingdom	2.08.00	D Kirk Patrick	New Zealand	3.07.02
D Wang Huoran	China	2.08.00	C Ponten Bengt	Sweden	3.07.03
C Matheson Colin	Australia	2.08.01	D De Hoop Cornelis	United States	3.07.03
D Hughes Colin E.	United Kingdom	2.08.01	D Pollini Claudio	United States	3.07.03
D Joly Helene	France	2.08.01	C Wippermann Jochen	Germany	3.07.04
D Mesen Francisco	Costa Rica	2.08.01	D Birkeland Rolf	Norway	3.07.04
D Owino Fred	Kenya	2.08.01	C Gellerstedt Sten	Sweden	3.07.05
C Pinyopusarerk Khongsak	Australia	2.08.02	D De Souza Amauri P.	Brazil	3.07.05
D Werner Dietrich	Germany	2.08.02	C Hyttinen Pentti	Finland	3.08.00
C Borralho Nuno M.G.	Australia	2.08.03	D Murashima Yoshinao	Japan	3.08.00
D Bouillet Jean Pierre	Congo	2.08.03	D Sinner Hans-Ulrich	Germany	3.08.00
D Ipinza Roberto H.	Chile	2.08.03	C Lilleberg Risto E.	Finland	3.09.00
C Villar Marc	France	2.08.04	D Kofman Pieter D.	Denmark	3.09.00
D Gullberg Urban	Sweden	2.08.04	D Lyons John	Ireland	3.09.00
D Stanton Brian	United States	2.08.04	D Spinelli Rafaele	Italy	3.09.00
C Steiner Kim C.	United States	2.08.05	C Kellogg Loren	United States	3.10.00
D Savill Peter S.	United Kingdom	2.08.05	D Gaskin John	New Zealand	3.10.00
C Edwards David G. W.	Canada	2.09.00	D Guimier Daniel Y.	Canada	3.10.00
D Musoke R.	Uganda	2.09.00	D Rudd Sigurd Ole	Norway	3.10.00
D Vozzo John	United States	2.09.00	C Johnson Leonard	United States	3.10.01
C Muhs Hans-Jakob	Germany	2.10.00	D Berg Staffan	Sweden	3.10.01
			D Brink Michael	South Africa	3.10.01
			C Daugavietis Maris	Latvia	3.10.02
			D Ilavsky Jan	Slovakia	3.10.02
			C Zundel Pierre	Canada	3.10.03
			D Sionneau Jean	France	3.10.03
			D Sonntag Georg	Germany	3.10.03
			C Mitchell C. Paul	United Kingdom	3.10.04
			D Danielsson Bengt-Olof	Sweden	3.10.04
			D Watson Billy	United States	3.10.04
			C McCormack Robert	Australia	3.10.05
			D Amlin Erik	Canada	3.10.05
			D Dahlin Bo	Sweden	3.10.05

Division 3					
C Dykstra Dennis P.	Indonesia	3.00.00			
D Cordero William	Bolivia	3.00.00			
D Furuberg Gjedtjernet A.	Norway	3.00.00			
C Menzies Mike	New Zealand	3.02.00			
D Fjeld Dag	Norway	3.02.00			
D McNabb Ken	United States	3.02.00			
C Kaushal Parvinder	India	3.02.01			
D Cazaux Jean-Pierre	France	3.02.01			
D Hall Peter	New Zealand	3.02.01			

C	Lauhanen Risto	Finland	3.11.00	C	Merlo Maurizio	Italy	4.04.02
D	Costa Filho Perminio P.	Brazil	3.11.00	D	Klocek Andrzej	Poland	4.04.02
D	Kamaruzaman Jusoff	Malaysia	3.11.00	C	Deltuvus Romualdas	Lithuania	4.04.03
D	Wästerlund Iwan	Sweden	3.11.00	D	Ianculescu Marian	Romania	4.04.03
D	Zabkiewicz J.A.	New Zealand	3.11.00	C	Klemperer W. David	United States	4.04.04
C	Wästerlund Iwan	Sweden	3.11.01	D	Amano Masahiro	Japan	4.04.04
D	Koubaka Lubin	Congo	3.11.01	D	Centeno Julio	Venezuela	4.04.04
D	Matthies Dietmar	Germany	3.11.01	C	García Oscar	Spain	4.04.06
D	Nefu	China	3.11.01	D	Blandon Peter	United Kingdom	4.04.06
C	Costa Filho Perminio P.	Brazil	3.11.02	C	Griess Othmar	Austria	4.04.07
D	Hassan Awatif E.	United States	3.11.02	D	Nieuwenhuis Maarten	Ireland	4.04.07
D	Kamaruzaman Jusoff	Malaysia	3.11.02	D	Schram Pierre	Luxembourg	4.04.07
D	Nitteberg Morten	Norway	3.11.02	C	Buerger-Arndt Renate	Germany	4.04.08
C	Zabkiewicz J.A.	New Zealand	3.11.03	D	Van Hensbergen H. J.	South Africa	4.04.08
D	Derus Abdul Rahman	Malaysia	3.11.03	C	Köhl Michael	Germany	4.11.00
D	Karr Robert	United States	3.11.03	D	Kleinn Christoph	Costa Rica	4.11.00
D	Koolen A.J.	Netherlands	3.11.03	C	Gertner George	United States	4.11.01
D	Skoupy Alois	Czech Republic	3.11.03	D	Cheng Zichun	China	4.11.01
Division 4				C	Rennolls Keith	United Kingdom	4.11.02
C	Gadow v. Klaus	Germany	4.00.00	D	Benitez Celia Gaillard	Argentina	4.11.02
D	Burkhardt Harold E.	United States	4.00.00	C	Schmoldt Daniel L.	United States	4.11.03
D	Teplyakov Victor K.	Russian Federation	4.00.00	D	Saarenmaa Hannu	Finland	4.11.03
C	Skovsgaard J.P.	Denmark	4.01.00	C	Koch Barbara	Germany	4.12.00
D	Mowrer Todd H.	United States	4.01.00	D	Hussin Yousif	Netherlands	4.12.00
C	Zingg Andreas	Switzerland	4.01.03	D	Schardt Matthias	Austria	4.12.00
D	LeMay Valerie	Canada	4.01.03	C	Jöbstl Hans	Austria	4.13.00
C	Kupka Ivo	Czech Republic	4.01.04	Division 5			
D	Keenan Rod	Australia	4.01.04	C	Youngquist John A.	United States	5.00.00
D	Tome Margarida	Portugal	4.01.04	D	Sales Christian G.	France	5.00.00
C	MacLean David A.	Canada	4.01.06	D	Wang Cathy H.H.	China - Taipei	5.00.00
D	Amateis Ralph L.	United States	4.01.06	D	Winkler András	Hungary	5.00.00
C	Mielikäinen Kari	Finland	4.01.08	C	Phelps John E.	United States	5.01.00
D	Spiecker Heinrich	Germany	4.01.08	D	Baas Pieter	Netherlands	5.01.00
C	Mäkelä Annikki	Finland	4.01.09	D	Saranpää Pekka	Finland	5.01.00
D	Landsberg Joe	Australia	4.01.09	C	Aloni Roni	Israel	5.01.01
D	Päivinen Risto	Finland	4.02.00	D	Barnett John	United Kingdom	5.01.01
D	Lund H. Gyde	United States	4.02.00	D	Takabe Keiji	Japan	5.01.01
D	Singh Ashbindu	United States	4.02.00	C	Phelps John E.	United States	5.01.02
D	Temu August Basil	Kenya	4.02.00	D	Fujita Minoru	Japan	5.01.02
D	Vanclay Jerry	Indonesia	4.02.00	D	Peszlen Ilona	Hungary	5.01.02
C	Krug Thelma	Brazil	4.02.01	D	Nepveu Gérard	France	5.01.04
D	Atul Mr.	India	4.02.01	D	Malan François	South Africa	5.01.04
D	Davis Robert	Italy	4.02.01	D	Thörnqvist Thomas	Sweden	5.01.04
D	Ellatifi Mohammed	Morocco	4.02.01	C	Cown Dave	New Zealand	5.01.05
C	Kohli R.K.	India	4.02.02	D	Araman Philip	United States	5.01.05
D	Nobori Yoshihiro	Japan	4.02.02	D	Barbour Jamie	United States	5.01.05
D	Thammincha Songkram	Thailand	4.02.02	D	Johansson Germund	Sweden	5.01.05
C	Brack Chris	Australia	4.02.03	D	Leban Jean-Michel	France	5.01.05
D	Foli Ernest G.	Ghana	4.02.03	D	Nakai Takashi	Japan	5.01.05
D	Fraye Ed	United States	4.02.03	C	Hoffmeyer Preben	Denmark	5.02.00
D	Gregoire Timothy G.	United States	4.02.03	D	Glos Peter	Germany	5.02.00
C	Alvarez Roman	Mexico	4.02.04	D	Green David W.	United States	5.02.00
D	Dralle Kim	Denmark	4.02.04	C	Beall Frank C.	United States	5.02.01
D	Tokola Timo	Finland	4.02.04	D	Kucera Ladislav J.	Switzerland	5.02.01
C	Zawila-Niedzwiecki T.	Poland	4.02.05	C	Le Van Susan	United States	5.03.00
D	Evans David	United States	4.02.05	D	Preston Alan F.	United States	5.03.00
D	Folving Sten	Italy	4.02.05	D	Vihavainen Tuija	Finland	5.03.00
D	Kamaruzaman Jusoff	Malaysia	4.02.05	C	Ishihara Shigehisa	Japan	5.03.04
C	Shvidenko Anatoly Z.	Russian Federation	4.02.06	D	Osvald Anton	Slovakia	5.03.04
D	LaBau Vernon J.	United States	4.02.06	D	Sheau-Hong Lin	China - Taipei	5.03.04
D	Magnussen Steen	Canada	4.02.06	C	Gnanaharan Rajamoney	India	5.03.09
C	Nuutinen Tuula	Finland	4.02.07	D	Fernandez Ana Maria	Chile	5.03.09
D	Hoganson Howard	United States	4.02.07	D	Han Hoy M.	Malaysia	5.03.09
D	Manley Bruce	New Zealand	4.02.07	C	Rosen Howard N.	United States	5.04.00
C	Sekot Walter	Austria	4.04.00	D	Hattori Nobuaki	Japan	5.04.00
D	Gal Janos	Hungary	4.04.00	D	Vanek Manfred	Austria	5.04.00
D	Valsta Lauri	Finland	4.04.00	C	Fortin Yves	Canada	5.04.06
C	Eckmuellner Otto	Austria	4.04.01	D	Kanagawa Yasushi	Japan	5.04.06
D	Smykala Jerzy	Poland	4.04.01	D	Perré Patrick	France	5.04.06

C	Pizzi Antonio	France	5.04.07	C	Sievänen Tuija	Finland	6.01.00
D	Hse Chung-Yun	United States	5.04.07	D	Chen Chaw-Ming	China - Taipei	6.01.00
C	Szymani Ryszard	United States	5.04.08	D	McLaughlin Bill	United States	6.01.00
D	Groenlund Anders	Sweden	5.04.08	C	Ammer Ulrich	Germany	6.01.02
C	Birkeland Rolf	Norway	5.04.10	D	Axelsson-Lindgren Ch.	Sweden	6.01.02
D	Massey Joseph G.	United States	5.04.10	C	Jensen Frank S.	Denmark	6.01.04
C	Sell Jürgen	Switzerland	5.04.12	D	Kim Seong-Il	Korea (Rep)	6.01.04
D	Roux Marie-Lise	France	5.04.12	C	Reunala Aarne	Finland	6.01.05
C	Maness Thomas	Canada	5.04.13	C	Proebstl Ulrike	Germany	6.01.06
D	Sachers Markus	Germany	5.04.13	D	Ito Taichi	Japan	6.01.06
C	Plackett David	Canada	5.05.00	C	Kempf Alois	Switzerland	6.03.00
D	Rowell Roger	United States	5.05.00	D	Ibach Michael	Indonesia	6.03.00
C	Kawai Suishi	Japan	5.05.01	D	Sommer Deborah	United States	6.03.00
D	Ballerini Aldo	United States	5.05.01	C	Brown Virginia	United States	6.03.01
C	Hse Chung-Yun	United States	5.05.02	D	Karjalainen Annikki	Finland	6.03.01
D	Barbu Marius	Austria	5.05.02	C	Kaennel Michèle	Switzerland	6.03.02
D	Xuhe Chen	China	5.05.02	D	Haddon Brian	Canada	6.03.02
C	Gatenholm Paul	Sweden	5.05.03	C	Rütze Matthias	Germany	6.03.03
D	Sanadi Anand	United States	5.05.03	D	Koler Cvetka-Teja	Slovenia	6.03.03
C	Militz Holger	Netherlands	5.05.04	C	Motta T. Maria Teresa	Colombia	6.03.04
D	Harun Jalaluddin	Malaysia	5.05.04	D	Schaitza Erich Gomes	Brazil	6.03.04
C	Hong L.T.	Malaysia	5.06.00	D	Ugalde Luis	Costa Rica	6.03.04
D	Bhat K. Mahabala	India	5.06.00	C	Burns Denver	United States	6.06.00
D	Foudjet Amos	Cameroon	5.06.00	D	Fryk Jan	Sweden	6.06.00
C	El Osta Lotfy	Egypt	5.06.01	D	Schlaepfer Rodolphe	Switzerland	6.06.00
D	El Kortbi Mohamed	Morocco	5.06.01	C	Miner Cynthia	United States	6.06.02
D	Thibaut Bernard	France	5.06.01	D	Sharma O.P.	India	6.06.02
C	Bhat K. Mahabala	India	5.06.02	C	Johnson James E.	United States	6.06.03
D	Okuyama Takashi	Japan	5.06.02	D	Beck Roland	Germany	6.06.03
D	Thibaut Bernard	France	5.06.02	C	Schmidt Pieter	Netherlands	6.06.04
C	Waugh Gary	Australia	5.06.03	C	Johann Elisabeth	Austria	6.07.00
D	Bailleres Henri	France	5.06.03	D	Arnould Paul	France	6.07.00
D	Garcia Jose N.	Brazil	5.06.03	D	Gundermann Egon	Germany	6.07.00
D	Turner Philip	South Africa	5.06.03	C	Rawat Ajay S.	India	6.07.01
C	Fung Paul Y.H.	Australia	5.07.00	D	Grove Richard	Australia	6.07.01
D	Rosen Howard N.	United States	5.07.00	C	Agnoletti Mauro	Italy	6.07.02
C	Connor Mike	Australia	5.07.01	C	Zanzi Sulli Alessandra	Italy	6.07.04
D	Hoi Why Kong	Malaysia	5.07.01	C	Schwenk Sigrid	Germany	6.07.05
C	Thammincha Songkram	Thailand	5.08.00	C	Kaiser Harold F.	United States	6.11.00
D	Bhat K. Mahabala	India	5.08.00	D	Simula Markku	Finland	6.11.00
D	Chaves Ana Cecilia	Costa Rica	5.08.00	C	Bertrand Alain	France	6.11.01
D	Kigomo Benard	Kenya	5.08.00	D	Hansra B.S.	India	6.11.01
D	Maoyi Fu	China	5.08.00	D	Mgeni A.	Tanzania	6.11.01
D	Mohmod Abd. Latif	Malaysia	5.08.00	C	Smyth Jack H.	Canada	6.11.02
D	Tang J.L.	China - Taipei	5.08.00	D	Ota Ikho	Japan	6.11.02
C	Janssen Jules J.A.	Netherlands	5.08.01	D	Spinelli Rafaelle	Italy	6.11.02
D	Gnanaharan Rajamoney	India	5.08.01	C	Peterson George L.	United States	6.11.04
C	Wimmer Rupert	Austria	5.09.00	D	Arthaud Greg	United States	6.11.04
D	Vetter Roland E.	Brazil	5.09.00	D	Penttinen Markku	Finland	6.11.04
C	Juslin Heikki	Finland	5.10.00	C	De Steiguer J. Edward	United States	6.11.05
D	Becker Michel	Germany	5.10.00	D	Seppälä Heikki	Finland	6.11.05
D	Bush Robert J.	United States	5.10.00	C	Petrov Anatoly	Russian Federation	6.11.06
D	Cohen David H.	Canada	5.10.00	D	Le Master Dennis	United States	6.11.06
D	Ishii Yutaka	Japan	5.10.00	C	Tikkanen Ilpo	Finland	6.12.00
D	Jelvez Arnaldo	Chile	5.10.00	D	Glück Peter	Austria	6.12.00
C	Raychaudhuri Syama P.	India	5.11.00	D	Risbrudt Christopher	United States	6.12.00
D	Shortle Walter C.	United States	5.11.00	C	Solberg Birger	Norway	6.12.01
C	Raychaudhuri Syama P.	India	5.11.02	D	Zimmermann Willi	Switzerland	6.12.01
D	Rembold H.	Germany	5.11.02	C	Cortner Hanna	United States	6.12.02
C	Jones A.R.C.	Canada	5.11.03	D	Ellefson Paul V.	United States	6.12.02
D	Subansenee Wanide	Thailand	5.11.03	C	Essmann Hans F.K.	Germany	6.12.03
C	Salo Kauko	Finland	5.11.04	D	Harou Patrice A.	United States	6.12.03
D	Lee Su See	Malaysia	5.11.04	C	Schmithüsen Franz	Switzerland	6.13.00
C	Barbour Jamie	United States	5.12.00	D	Herbst Peter	Austria	6.13.00
D	Wong Andrew	Malaysia	5.12.00	D	Siegel William C.	United States	6.13.00
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C	Koch Niels Elers	Denmark	6.00.00	D	Dwyer Jr. John F.	United States	6.14.00
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C	Mattson William	United States	7.01.00
D	Niemela Pekka	Finland	7.01.00
C	Wingfield Michael	South Africa	7.01.01
C	Lieutier Francois	France	7.01.02
D	Wagner Mike	United States	7.01.02
C	Rousi Matti	Finland	7.01.03
D	Hirokawa Hirofumi	Japan	7.01.03
C	Yanchuk Alvin	Canada	7.01.04
D	Bastien Catherine	France	7.01.04
D	King John	Canada	7.01.04
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D	Rykowski Kazimierz	Poland	7.02.00
D	Sutherland Jack R.	Canada	7.02.00
C	Delatour Claude	France	7.02.01
D	Lafamme Gaston	Canada	7.02.01
C	Lafamme Gaston	Canada	7.02.02
D	Antti Uotila	Finland	7.02.02
D	Ostry Michael E.	United States	7.02.02
C	Przybyl Krystyna	Poland	7.02.03
D	Mohan C.	India	7.02.03
C	Hamacher Joachim	Germany	7.02.04
D	Maramorosch Karl	United States	7.02.04
D	Siwecki Ryszard	Poland	7.02.04
C	Hiratsuka Yasuyuki	Canada	7.02.05
D	Jalkanen Risto	Finland	7.02.05
D	Kaneko Shigeru	Japan	7.02.05
C	Cech Thomas	Austria	7.02.06
D	Hartmann Günther	Germany	7.02.06
D	Jurc Dusan	Slovenia	7.02.06
C	Sharma Jyoti	India	7.02.07
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D	Chen Chang-Jie	China	7.03.08
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D	Yi Chang Keun	Korea (Rep)	7.03.08
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C	Moravcik Pavel	Czech Republic	8.01.02
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C	Crow Thomas	United States	8.01.03
D	Anko Bostjan	Slovenia	8.01.03
D	Godt Jochen	Germany	8.01.03
C	Brown Nick	United Kingdom	8.01.04
D	Singhakumara B.M.P.	Sri Lanka	8.01.04
C	Fineschi Silvia	Switzerland	8.01.06
C	Nambiar E.K.S.	Australia	8.02.00
D	Franc Alain	France	8.02.00
C	Schlatter Juan	Chile	8.02.01
D	Hunter Ian	Finland	8.02.01
C	Smith Tattersall	New Zealand	8.02.02
D	Henry Charles	United States	8.02.02
D	Moffat Andrew	United Kingdom	8.02.02
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D	Campos J.J.	Costa Rica	8.02.03
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C	Hunter Ian	Finland	8.02.04
D	Haibara Kikuo	Japan	8.02.04
D	Khanna P.K.	Australia	8.02.04
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D	Boardman Robert	Australia	8.02.05
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C	Gardiner Barry	United Kingdom	8.03.00
D	Grip Harald B.	Sweden	8.03.00
D	Xu Deying	China	8.03.00
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