

International Union of Forest Research Organizations  
Union Internationale des Instituts de Recherches Forestières  
Internationaler Verband Forstlicher Forschungsanstalten  
Unión Internacional de Organizaciones de Investigación Forestal

# IUFRO Annual Report 2010



The Global Network  
for Forest Science  
Cooperation

BS.2011



## Foreword

by Don Koo Lee,  
IUFRO Immediate Past President



The year 2010 can be seen as a year of significant change in IUFRO, not only because it marks the end of my term as IUFRO President but also because it sets new directions for IUFRO activities with the approved IUFRO **Strategy 2010-2014** and the election of new Board members and officeholders.

When I was elected IUFRO President in Brisbane in 2005, I mentioned the five I's, namely **Inform, Involve, Ignite, Invite, and Influence** as my general principles that would guide me in leading IUFRO and that would help me to attain set goals and objectives up to 2010. It gives me pleasure to see that these were recognized in most of IUFRO's activities in the past five years.

One of the most important activities of IUFRO in 2010 was of course the convening of the XXIII IUFRO World Congress in Seoul, Republic of Korea on 23-28 August with the theme **Forests for the Future: Sustaining Society and the Environment**. This Congress was very successful and drew over 2,700 participants from almost 100 countries worldwide. I would like to thank the Korea Forest Research Institute for organizing this event as well as Dr. Jung-Hwan Park (COC Chair), Dr. John Parrotta (CSC Chair), IUFRO Board members and Headquarters for their great job and valuable support. My gratitude also goes to the many IUFRO members and officeholders around the world for participating in the Congress and making it a truly global networking platform.

I would also like to thank the IUFRO Board members, the International Council and the Review Panels for their contributions to the IUFRO Strategy 2010-2014. The Strategy structure distinguishes between research goals and institutional goals with special emphasis on six thematic areas: forests for people, forests and climate change, forest bioenergy, forest biodiversity conservation, forest and water interactions, resources for the future. It shall serve as a guide for **reading the pulse of forest science for the benefit of forests and people**.

Hence, in attaining the goals of this Strategy, I would like to emphasize the importance of collective partnership and encouragement to deal with various forestry issues **across age, gender, generation and economic classes**.

It is through understanding of the underlying issues and communication that we can find ways to address these issues.

Recognizing one's ability to do a better job and the readiness to take on challenges is important as well. This is the reason why I have promoted measures that **reward outstanding scientific achievements** and increase the chances of young scientists to participate in international forest science collaboration. I commend all partners and donors who have supported me in this endeavour.

For IUFRO to become more relevant in the future and to increase its membership, I would like to encourage the **expansion of IUFRO regional activities**, particularly in Africa, Latin America, Asia and the southern hemisphere through capacity building programmes of SPDC and GFIS among others. I still continuously encourage the participation of young scientists, students, female scientists and scientists from developing countries in IUFRO undertakings.

In addition, I hope that IUFRO will constantly aim at further **strengthening its relationships and strategic alliances** with the wide-ranging international community and at working with networks and member organizations to deal with emerging international, regional and national issues and priorities.

This 2010 Annual Report draws attention to the **significance of our work** and the magnitude of our global network in forest-related research. With this strong partnership as a basis, IUFRO will remain committed to attaining its mission.

**Finally, I would like to seize this opportunity to thank everyone from IUFRO who has helped me all along the way, and the various sponsors and donors for their continuous support of IUFRO activities. To all of the IUFRO family - International Council members, Member Organizations, Board members, IUFRO Units and the Secretariat - please support the new Board members and Officeholders as they serve IUFRO to the best of their capabilities!**



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**Note:**

All texts in this Annual Report have either been provided by IUFRO officeholders or have been taken from IUFRO conference information websites and reports or IUFRO News.

*Photos on pages 1, 2 and 3, by courtesy of the Congress Organizing Committee (COC)*

From left to right on pages 2 and 3:

- 1) At the registration desk.
- 2) The members of the COC.
- 3) Opening ceremony: President of the Republic of Korea, Lee, Myung-bak, (centre), IUFRO's Don Koo Lee and Niels Elers Koch to the right; Jan McAlpine (UNFF) and Eduardo Rojas Briaies (FAO) to the left.
- 4) Korean poet Ko Un, keynote speaker.



# XXIII IUFRO World Congress, Seoul, Korea

**Forests for the Future: Sustaining Society and the Environment, 23-28 August 2010**

In the history of IUFRO world congresses, the Congress in Seoul, Korea, ranked among the first in terms of number of participants and abstracts presented. It drew over 2,700 forest scientists from 93 countries who presented about 2,000 papers and posters covering a vast variety of forest-related topics.

In addition to the scientific program, the Congress offered official and social events, a trade exhibition and study tours. The Opening Ceremony was graced by the presence of President Myung-bak Lee of the Republic of Korea, who addressed the audience following the opening speech by IUFRO President Don Koo Lee and congratulatory remarks by FAO Assistant Director General Eduardo Rojas-Briales, and UNFF Director Jan McAlpine on behalf of UN Secretary General Ban-Ki-moon. A Tree Planting ceremony as part of the IUFRO Congress tradition was held on 22 August in Seoul Forests, a new urban park.

The scientific program was divided into Plenary Sessions, Sub-plenary Sessions and Technical Sessions. The keynote address by Korean poet Ko Un was particularly acclaimed by many participants. Keynote addresses were also delivered by CIFOR Director General Frances Seymour, CATIE Director General José Joaquín Campos, Indiana University Professor and Nobel Laureate Elinor Ostrom, and Harvard University Professor Emeritus Peter Shaw Ashton.

The title of the Congress, "Forests for the Future: Sustaining Society and the Environment", provided the basis for the scientific program. The Congress Scientific Committee developed nine themes reflecting the concept of the Congress:

*Forests and Climate Change;*  
*Biodiversity Conservation and Sustainable Use of Forest Resources;*  
*Forest Environmental Services;*  
*Asia's Forests for the Future;*  
*Forest Products and Production Processes for a Greener Future;*  
*Emerging Technologies in the Forest Sector;*  
*Frontiers in Forest and Tree Health;*  
*Forests, Communities and Cultures; and*  
*Forests, Human Health and Environmental Security.*

The Scientist Assistant Program (SAP) provided financial assistance for 174 forest scientists from 55 developing countries. In addition, Seoul National University supported 78 participants. One week before the Congress, Pre-Congress Training Workshops on forests and climate change, forest-water interactions, traditional forest knowledge and, forests and human health were attended by 69 invited scientists from 28 developing countries.

Eight in-Congress tours on 26 August permitted a hands-on experience of Korea's exemplary reforestation and traditional culture. After the Congress, eight post-Congress tours to destinations in Korea, China, Japan and Mongolia were offered.

In the Closing Ceremony, IUFRO President Don Koo Lee praised the success of the Congress and handed over the IUFRO flag to a representative from the United States, the next host country. We look forward to the XXIV IUFRO World Congress to be held in Salt Lake City in October 2014.

*(modified from the Congress Report Preface)*

## The Congress Resolution

The XXIII IUFRO World Congress “Forests for the Future: Sustaining Society and the Environment” provided a unique forum for presentation and discussion of the results of current global research related to forests and trees. The Congress explored a broad range of current and emerging issues of great importance for the future of forests and their capacity to provide the environmental, economic, social, cultural, and health benefits that sustain rural and urban societies worldwide.

During this historic *International Year of Biodiversity*, in anticipation of the upcoming *International Year of Forests*, and recognizing the vital role that forest science must play in meeting the common challenges we face worldwide, IUFRO commits itself to:

Focusing more on scientific research and international collaboration in six thematic areas:

**Forests for People**

**Climate Change and Forestry**

**Bio-Energy**

**Forest Biodiversity Conservation**

**Forests and Water Interactions**

**and Forest Resources for the Future**

Further, IUFRO commits itself to the following goals: Improving communication within the IUFRO structure, with other scientists, students, forest professionals, and the public; and increasing visibility and accessibility of research findings;

Expanding and deepening IUFRO’s work at the science-policy interface by enhancing scientific contributions to international processes, conventions, and organizations; responding rapidly to new policy issues; expanding partnerships and collaborating with international organizations and processes through the provision of scientific information and policy options;

Urging member institutions and external stakeholders to renew and strengthen forest monitoring activities and support global monitoring efforts;

Improving IUFRO’s capacity to expand its membership and funding base to provide support for the full range of IUFRO’s activities to benefit the forest researchers belonging to IUFRO’s member organizations; and

Promoting high-quality forest-related research and expanding IUFRO’s capacity for interdisciplinary cooperation; strengthening scientific capacity; relating the work of all IUFRO units to the six thematic areas; broadening IUFRO’s membership base; and identifying emerging issues and changing paradigms.

*John Parrotta, Chair of the Congress Scientific Committee, read out the Seoul Resolution at the Closing Ceremony. The Seoul Resolution was translated into the official IUFRO languages French, Spanish and German.*

## Newly Elected IUFRO Board

At the Congress the International Council of IUFRO elected the President, two Vice-Presidents, nine Division Coordinators and five President’s Nominees (PN) for the period 2010-2014. President’s Nominees are selected to strive for a regional, gender and scientific balance and their tasks will be approved by the Board.

**New President:** Niels Elers Koch, Denmark

**New Vice President:** Mike Wingfield, South Africa

**New Vice President:** Su See Lee, Malaysia

### **New Division Coordinators:**

*Division 1:* Björn Hånell, Sweden

*Division 2:* Yousry El-Kassaby, Canada

*Division 3:* Hans Heinemann, Switzerland

*Division 4:* Margarida Tome, Portugal

*Division 5:* Andrew Wong, Malaysia

*Division 6:* Tuija Sievänen, Finland

*Division 7:* Andrew Liebhold, USA

*Division 8:* Jean-Michel Carnus, France

*Division 9:* Daniela Kleinschmit, Sweden/Germany\*

### **President’s Nominees**

José Campos, Costa Rica

Ben Chikamai, Kenya

Elena Kulikova, Russia

Shirong Liu, China

Ulrike Pröbstl, Austria

\* The International Council decided to split Division 6 into two Divisions: Division 6 will focus on Social Aspects of Forests and Forestry, Division 9 on Forest Policy and Economics.

*Photo: In-Congress tour  
(courtesy of COC)*



# Honours and Awards

## Awards in recognition of services to IUFRO

### Honorary Membership

Eric Teissier du Cros, France  
Risto Seppälä, Finland

### Distinguished Service Award

John Parrotta, USA  
Jung-Hwan Park, Republic of Korea  
Seung-Jin Suh, Republic of Korea

### Certificate of Appreciation

*(in connection with the Congress)*  
Il Hwan Chang, Republic of Korea  
Jae Hyeong Cho, Republic of Korea  
Wan Yong Choi, Republic of Korea  
Kwang Soo Chung, Republic of Korea  
Jang Moo Lee, Republic of Korea  
Ho Sang Kang, Republic of Korea  
Ji Hong Kim, Republic of Korea  
Seok Woo Lee, Republic of Korea

### Certificate of Appreciation

*(not connected with the Congress)*  
Tom R. Crow, USA  
Dag Lindgren, Sweden  
Richard Vlosky, USA  
Eun Wook Lee, Republic of Korea

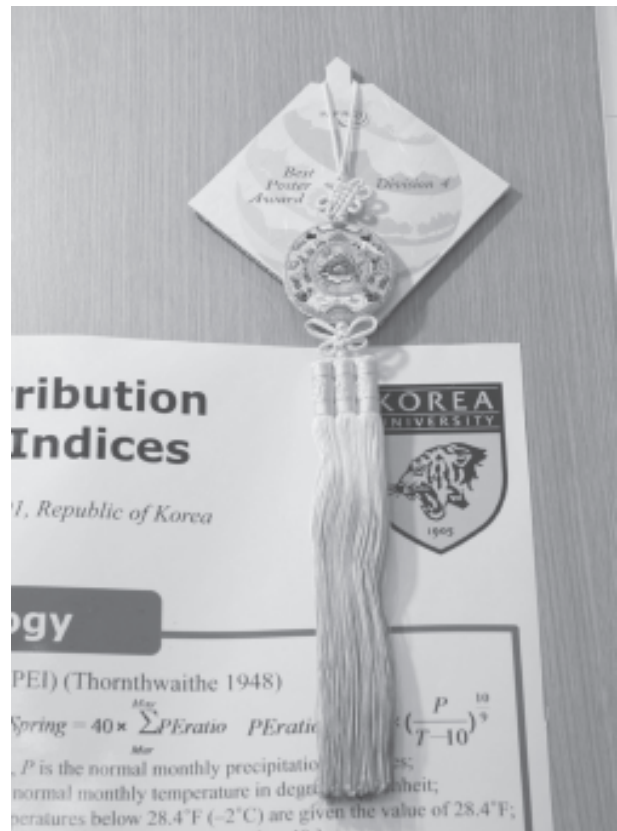
## Awards in recognition of scientific work

### Scientific Achievement Award

Janaki Alavalapati, USA/India  
Michael Battaglia, Australia  
Yousry A. El-Kassaby, Canada  
Tonni Agustiono Kurniawan, Indonesia  
Sun-Young Lee, Republic of Korea  
Andrew M. Liebhold, USA  
Shawn Mansfield Canada  
Nor Azah Mohamad Ali, Malaysia  
Jerry Vanclay, Australia  
Jiaojun Zhu, China  
Janusz Zwiazek, Canada

### Outstanding Doctoral Research Award

Guillermo Gea Izquierdo, Spain  
Marieka Gryzenhout, South Africa  
Jiali Jiang, China  
Finnvid Prescher, Sweden  
Andreas Schindlbacher, Austria  
Jürg Andreas Stückelberger, Switzerland  
Guillermo Trincado, Chile  
Feng'e Yang, Canada



### IUFRO World Congress Host Country Scientific Award

Sung Gak Hong, Republic of Korea

### IUFRO Student Award for Excellence in Forest Science

Mahbubul Alam, Japan  
Marco A. Contreras, USA  
Tnah Lee Hong, Malaysia

### Best Poster Awards

Division 1, Pifeng Lei, Germany  
Division 2, Yoshihiro Hosoo, Japan  
Division 4, Sungho Choi, Republic of Korea  
Division 5, Lee Su-Yeon, Republic of Korea  
Division 6, Maija Faehnle, Finland  
Division 7, Takahashi Yukiko, Japan  
Division 8, Ahn Young San, Republic of Korea

Photo: Best Poster Award (courtesy of COC)

# Silviculture - Division 1

## Coordinator:

Björn Hånell, Sweden

## Deputy Coordinators:

John Parrotta, USA (until 23 August 2010),

Isabel Cañellas, Spain; Jens Peter Skovsgaard,

Sweden; Kevin L. O'Hara, USA (from 23 August 2010)

Division 1 had announced 12 meetings, including 3 inter-divisional conferences, in the IUFRO Calendar of Events for 2010. Ten of the meetings were directly related to four of the six thematic areas highlighted in the IUFRO Strategy for 2010-2014: (Forests for People – 4 meetings, Climate change – 1 meeting, Bioenergy – 3 meetings, and Resources for the future – 2 meetings), while the remaining two meetings included aspects of the Division's thematic areas.

## Meetings

The meeting on “**Global Change and Mediterranean Pines: Alternatives for Management**” offered an excellent platform for international debate on the ecology and silviculture of Mediterranean pines with a focus on climate change, its potential effects and adaptive solutions. Mediterranean pine forests play an important economic role on the local and regional levels. They provide timber and non-wood products as well as non-paid benefits, such as the uptake and storage of CO<sub>2</sub>. However, threats such as fire, drought and water stress might put the valuable legacy associated to these forest resources at risk. Seed production and seedling establishment for naturally regenerated pine stands may already be endangered for some of the Mediterranean species. The meeting contributed to a better understanding of the importance of pine ecosystems in the Mediterranean areas and of the major constraints and threats that these pine ecosystems are faced with nowadays or that are predicted to occur under a climate change scenario.

The 7th IUFRO conference on uneven-aged silviculture of Research Group 1.05.00 was entitled “**Integrating ecologically based uneven-aged silviculture with increased demand for forests**”. In spite of many successful practices of UAFM (uneven-aged forest management), its ability to integrate ecological theory and natural processes with forest stability, climate change adaptation, technological feasibility and economic efficiency are under debate. Conference papers and discussions focused on the advantages of UAFM, compared long term best practices of UAFM across different ecosystems, and discussed, among other things, guidelines for its future application.

February 10-12, Palencia, Spain: Meeting on “*Global Change and Mediterranean Pines: Alternatives for Management*”.

IUFRO 1.01.10, 2.02.13, 4.01.00

April 26-28, Beijing, China: *International Workshop on Short Rotation Forestry Potential in Energy Utilization and Carbon Trade*. IUFRO 1.03.03

May 25-27, Casablanca, Morocco: *International Conference “People, Forests and the Environment – Coexisting in Harmony”*. IUFRO 4.02.01, 8.00.00, 1.00.00, 7.01.00

September 20-24, Cottbus, Germany: *International Conference “Structures and Processes of the Initial Ecosystem Development”*. IUFRO 1.06.00

September 20-25, Cottbus, Germany: *Meeting of Young Researchers in Earth Sciences - MYRES 2010: “Structures and Processes of Initial Ecosystem Development”*. IUFRO 1.06.00

September 23-26, Ljubljana, Slovenia: *7th IUFRO Workshop on Uneven-aged Silviculture: 21st Century Forestry: Integrating ecologically based, uneven-aged silviculture with increased demand for forests*. IUFRO 1.05.00

October 6-8, Vila Real, Portugal. *Conference on “Mixed and Pure Forests in a Changing World”*. IUFRO 1.00.00, IUFRO 4.00.00, IUFRO 7.01.00

October 12-13, Medellin, Colombia. *4° Simposio Nacional Forestal: Energías Alternativas, Bosques y Cambio Climático*. IUFRO 1.01.10.

October 17-19, Syracuse, NY, U.S.A. *8th Biennial Short Rotation Woody Crops Operations Working Group: Short Rotation Woody Crops in a Renewable Energy Future: Challenges and Opportunities*. IUFRO 1.03.01

October 18-20, Freiburg, Germany. *International Scientific Symposium “Opportunities and Risks for Douglas-Fir in a Changing Climate”*. IUFRO 1.01.00

October 27-29, Coyhaique, Chile. *The First Patagonian Agroforestry International Congress*. IUFRO 1.00.00, 1.04.00.

October 27-29, Varazdin, Croatia and Zala County, Hungary. *International Scientific Symposium “Fagus 2010: Is There Future for Beech - Changes, Impacts and Answers”*. IUFRO 1.00.00.

Photo: “Fagus 2010” study tour (provided by Igor Kolar)





# Physiology and Genetics - Division 2

## Coordinator:

Bailian Li, USA (*until 23 August 2010*)  
Yousry El-Kassaby, Canada (*from 23 August 2010*)

## Deputy Coordinators:

John Vozzo, USA; Paraskevi (Evi) Alizoti, Greece; Zohra Bennadji, Uruguay (*until 23 August 2010*),  
Santiago C. González-Martínez, Spain; Robert D. Guy, Canada; Meng-Zhu Lu, China (*from 23 August 2010*)

*Division 2 covers a wide spectrum of research activities with five Research Groups (physiology, conifer breeding, genetics, hardwood improvement, and tree seed) encompassing 31 Working Parties. A restructuring of the Division resulted in the closure of three and the merger of two working parties. The realignment of Working Parties is a dynamic process depending on the emergence or loss of interest in specific research areas. The Division held 10 meetings throughout 2010.*

## Meetings

The travelling workshop on **canopy processes** in southeast Australia highlighted the challenges for a better process based understanding of forest sciences in a changing climate. New technologies and emerging modelling approaches are helping to improve our mechanistic understanding of canopy processes at scales ranging from cell to region. However, key uncertainties remain with respect to processes regulating carbohydrates, respiration and ageing and mortality in forests and how these processes will respond to future climates.

The 4<sup>th</sup> **International Casuarina Workshop** held in China revealed a substantial change in the way casuarinas are cultivated and utilized. Tens of thousands of small land holders such as those in India and China cultivate short-rotation casuarina plantations for household income generation. Restoration of degraded and over-exploited shelterbelts has been a focus of provincial governments in southern China. Casuarinas remain an important species for windbreaks and fuelwood but are now also used by paper making, plywood and chipboard industries.

*Photo: Cuttings propagation by water culture technique is a normal method for mass production of casuarina planting stock in China (by Zhong Chonglu)*



11 January, San Diego, USA  
*Forest Tree Workshop at Plant and Animal Genome XVIII meeting (PAG XVIII).*

**IUFRO 2.04.1**

10-12 February, Palencia, Spain  
*Global Change and Mediterranean Pines: Alternatives for Forest Managers*

**IUFRO 2.02.13**

7-12 March, Kuala Lumpur, Malaysia  
*Sustainable Utilisation and Conservation of Forests in the Genomics Era.*

**IUFRO 2.04.01**

22-25 March, Haikou, China  
*Improving Smallholder Livelihoods Through Improved Casuarina Productivity.*

**IUFRO 2.08.02**

15-21 August, Taipei, China-Taipei  
*Recent Advances in Seed Research and ex situ Conservation.*

**IUFRO 2.09.03**

19-21 August, Suwon, Korea  
*Advances in Somatic Embryogenesis of Trees and Its Application for the Future Forests and Plantations*

**IUFRO 2.09.02**

7-10 September, Syktyvkar, Russia  
*LARIX 2010: From Larch Genetics and Breeding to Silviculture.*

**IUFRO 2.02.07**

20 - 25 September, Orvieto, Italy  
*Poplars and Willows: from Research Models to Multipurpose Trees for a Biobased Society.*

**IUFRO 2.08.04**

7-15 October 2010, South East Australia: *Travelling workshop: Canopy Processes in a Changing Climate.*

**IUFRO 2.01.12**

28-30 October, Dongguan, China  
*Tree Introduction and Breeding in South China.*

**IUFRO 2.08.01**

8-10 November, Changsha, China  
*Eucalyptus Breeding and Developing in South China.*

**IUFRO 2.08.01**

*Photo: Field excursion at LARIX 2010 to three-year-old larch provenance field trial (provided by Aleksey Fedorkov)*



# Forest Operations Engineering and Management - Division 3

## Coordinator:

Hans R. Heinimann, Switzerland

## Deputy Coordinators:

Amaury P. De Souza, Brazil; Hideo Sakai, Japan; Daniel Y. Guimier, Canada (until 23 August 2010)  
Woodam Chung, USA; Jean-Francois Gingras, Canada; Hideo Sakai, Japan (from 23 August 2010)



Photo: Extension for safe work of forest owners - small scale-forestry conference (by Iztok Senjur)

## Major activities in 2010

Division 3, forest operations engineering and management, continued to implement IUFRO's overall strategy. The Division made significant progress to expand strategic partnerships and cooperation. There were two major annual conferences which Division 3 had co-sponsored:

- the US-based **COFE** meeting (Council on Forest Engineering); and
- the European-based **FORMEC** conference (International Symposium on Forest Mechanization)

Additionally, Division 3 will be co-sponsoring the 10th international conference on low-volume roads, and the 4th international forest engineering conference, both to be held in 2011. Those are important steps towards concentrating international activities, creating momentum, and improving visibility.

## Major achievements

In terms of research, 2010 resulted in 3 major contributions:

- The Small-scale Forestry Research Group (3.08) got ISI acceptance for its own journal "**small-scale forestry**" (<http://www.springerlink.com/content/120445/>). This means that the content of the journal from January 2011 onwards will be included in the Web of Science database.
- The Stand Establishment and Treatment Research Group (3.02) published a state of knowledge report, which was published as a supplement of the Scandinavian Journal of Forest Research. It covers two main aspects, **innovative forest nursery management and contemporary forest restoration**.
- The COST framework of the European Union launched an initiative to **improve forest biomass operations for energy use**. Many members of Division 3 contributed significantly, e.g. as instructors for the 2010 training school on "systems analysis in biomass utilization" which aimed at disseminating state-of-the-art knowledge to researchers at an early stage of their career.

## Challenges

**Forest biomass for energy use** has been gaining public attendance and financial support. Research activities have been mainly addressing biomass operations, aiming at improving economic efficiency and environmental soundness. However, there are key problems that have not been addressed adequately so far.

- Forest bioenergy has to compete in the overall energy markets. There is a strong need to develop policies how to integrate forest bioenergy into the international energy portfolio.
- The forestry sector itself has to find solutions how to handle competing policy streams: forest use for (1) fiber, (2) bioenergy, (3) carbon storage, (4) and biodiversity.
- There is still a lack of knowledge of how different biomass supply systems perform in terms of eco-efficiency, aiming at quantifying environmental performance following the ISO 14031 standard.

Unfortunately, the trend of **losing forest operations engineering and management capacity** is going to continue worldwide. There is a strong need to develop joint activities to get young talented people committed to spend their career in forest operations engineering and management.

## Meetings

6-9 June 2010, Auburn, USA: *COFE 2010 "Fueling the Future"*.  
**IUFRO 3.00.00**

6-12 June 2010, Bled, Slovenia: *Small Scale Forestry in a Changing World: Opportunities and Challenges and the Role of Extension and Technology Transfer*.  
**IUFRO 3.08.00, 6.06.01, 6.06.02**

11-14 July 2010, Padova, Italy: *Forestry Mechanization - FORMEC 2010*.  
**IUFRO 3.06.00**

# Forest Assessment, Modelling and Management - Division 4

## Coordinator:

Margarida Tomé, Portugal

## Deputy Coordinators:

Atsushi Yoshimoto, Japan; Lauri Valsta, Finland, Peter Holmgren, Italy (until 23 August 2010)

Ronald E. McRoberts, USA

Jerry Vanclay, Australia (since 23 August 2010)

Division 4 includes studies of growth and yield (including mensuration); forest resource inventory (collection and analysis of resource data); forest management planning and managerial economics; remote sensing; management sciences of forest enterprises; statistical methods, mathematics and computer technology. In 2010, two Working Parties (4.02.05 Remote sensing and world forest monitoring and 4.02.08 Remote sensing technology and geographic information systems) were merged into WP 4.02.05 Remote sensing, and two new Working Parties were proposed: 1) Risk analysis (Coordinator, David Grey, Canada); 2) Adaptation to climate change (Coordinator, Rod Keenan, Australia).

## Meetings

Laser scanning for forest applications is a young and promising research topic. With 51 oral and 26 poster presentations in eight session themes, the **SilviLaser** conference on LiDAR applications for assessing forest ecosystems in Freiburg, Germany, was an excellent chance for scientists and practitioners to share their experiences on LiDAR. Airborne laser scanning has a wide range of scientific and practical applications. Single tree detection was a frequent theme at the conference. Recent research on terrestrial laser scanning (TLS) data focuses on tree volume equations, canopy structure, tree architecture, individual stem mapping and wood quality assessment.

The International Conference “**People, Forests and the Environment: Coexisting in Harmony**” in Casablanca, Morocco, offered an excellent platform for international debate on the various facets of the interrelations between people, forest ecosystems and the environment. The conference concentrated on the current state of knowledge of people’s socioeconomic basic needs, forest goods and environmental services, towards a sustainable existence in harmony, of all concerned stakeholders.

10-12 February 2010, Palencia, Spain: *Cambio global y pinos mediterráneos: alternativas para los gestores.*  
**IUFRO 4.01.00**, 1.01.10, 2.02.13

25-27 May 2010, Casablanca, Morocco: *People, Forests and the Environment: Coexisting in Harmony.*  
**IUFRO 4.02.01**, 8.00.00, 7.01.00, 1.00.00

26-30 May 2010, Paris, France: *How to Both Harvest and Preserve Forests More or Better?*  
**IUFRO 4.05.00**, **4.05.01**, **4.05.02**

13-18 June 2010, Rovaniemi, Finland: *WorldDendro 2010.*  
**IUFRO 4.01.04**, 5.01.07

7-10 September 2010, Lugo and Santiago de Compostela, Spain: *ForestSat 2010: Operational tools in forestry using remote sensing techniques.*  
**IUFRO 4.02.08**

14-17 September 2010, Freiburg i. Br., Germany: *Silvilaser 2010, the 10th International Conference on LiDAR Applications for Assessing Forest Ecosystems*  
**IUFRO 4.02.08**

6-8 October 2010, Vila Real, Portugal: *Mixed and Pure Forests in a Changing World 2010.*  
**IUFRO 4.00.00**, 1.00.00, 7.01.00

19-21 October 2010, Curitiba, Paraná State, Brazil: *IX Seminar on Remote Sensing and GIS applied to Forestry*  
**IUFRO 4.02.05**

*People, Forests and the Environment: Coexisting in Harmony. Conference Opening Session (Photo Fettah)*



## Forest Products - Division 5

### Coordinator:

Dave Cown (*until 23 August 2010*)

Andrew Wong, Malaysia (*since 23 August 2010*)

### Deputy Coordinators:

Andrew Wong, Malaysia; Chris Risbrudt, USA (*until 23 August 2010*)

Jamie Barbour, USA; Dave Cown, New Zealand;

Pekka Saranpää, Finland (*since 23 August 2010*)



*Photo: Dave Cown in front of radiata high quality pruned logs for plywood in Inchon, Korea (provided by Dave Cown)*

*This Division includes research on the varied factors affecting the way forest plants grow and produce woody biomass and other products and the various ways the materials are used by industries and communities. It also includes research on the production, characteristics, and use of non-wood forest products, such as medicinal and edible components of forest crops.*

### Meetings

Wood drying is recognized as a key operation in sawmill production and affects product quality, value yield and the suitability of wood material for different end user products. The 11th International IUFRO **Wood Drying Conference** in Sweden presented important findings in six key areas of wood drying: Drying quality and wood Properties; Methods for Monitoring the Drying Process; Modelling; Applied Wood Drying; Alternative Drying Methods; Wood Modification Related to Drying.

The **SmallWood 2010** national conference held in Hot Springs, Arkansas, USA, provided state-of-the-art information and fostered peer-to-peer learning among those actively engaged in small-diameter and woody biomass utilization. The first SmallWood conference was held in 1998 in Lewiston, Idaho, and has been held every two years since. These conferences address potential utilization options for small-diameter and underutilized trees. Enormous quantities of woody biomass are generated today from forestry businesses, fuel reduction and landscape restoration projects, forest thinning operations, insect infestations, and natural disasters such as hurricanes. These issues drive the need to create solutions for using low-value waste wood.

The theme of the **WorldDendro 2010** conference was dendrochronology and the application of tree rings as environmental sensors. The specific focus of the conference was climate change, one of the greatest challenges of our time. The purpose of the conference was to bring together researchers working on the reconstruction and modelling of past, present and future tree growth and analyzing the natural and human induced variation patterns in tree rings.

18-22 January 2010, Skellefteå, Sweden: *11th International IUFRO Wood Drying Conference.*

**IUFRO 5.00.00, 5.04.00, 5.04.06**

20-22 April 2010, Hot Springs, Arkansas, United States: *Forest Products Society: SmallWood 2010.* **IUFRO 5.00.00**

4-7 May 2010, Edinburgh, United Kingdom: *Future of Quality Control for Wood & Wood Products.* **IUFRO 5.00.00**

16-18 May 2010, Madison, Wisconsin, United States: *International Conference on Wood & Biofiber Plastic Composites.* **IUFRO 5.00.00, 5.05.00**

13-18 June 2010, Rovaniemi, Finland: *WorldDendro 2010.* **IUFRO 5.01.07, 4.01.04**

20-22 June 2010, Madison, Wisconsin, United States: *Forest Products Society: 64th International Convention.*

**IUFRO Unit 5.00.00**

23-26 June 2010, Madison, WI, United States: *IAWA, IAWS & IUFRO Conference: Celebrating 100 years of Wood Science and Wood Anatomy on the occasion of the first Centenary of the Forest Products Laboratory*

**IUFRO 5.00.00, 5.01.00**

6-9 September 2010, Podbanske, High Tatras, Slovakia: *The 6th International Symposium Wood Structure and Properties.*

**IUFRO 5.01.00**

11-15 October 2010, Geneva, Switzerland: *Society of Wood Science and Technology, The Role of Wood Science in the Green Building Movement, 53rd International Convention.*

**IUFRO 5.00.00**

22-24 October 2010, Yangling, Shaanxi Province, China: *International Wood Culture Symposium - Ancient Wood Preservation, Restoration and Ancient Wood Cultural Industry.*

**IUFRO 5.10.01**

5-7 November 2010, Sofia, Bulgaria: *Third Scientific and Technical Conference "Innovations in Forest Industry and Engineering Design".* **IUFRO 5.00.00**

19-20 November 2010, Nanning, China: *China-ASEAN International Wood Culture Symposium and Wood Products Exhibition.* **IUFRO 5.10.01**

25 November 2010, Gwangju, Republic of Korea: *4th Bioenergy & Biotechnology Symposium.* **IUFRO Unit 5.07.00**

5-8 December 2010, Mar del Plata, Argentina: *2nd Congress of the Ibero-American Network on Wood Protection (RIPMA).* **IUFRO 5.03.00**

# Social Aspects of Forests and Forestry - Division 6

## Coordinator:

Perry J. Brown, USA (until 23 August 2010)

Tuija Sievänen, Finland (since 23 August 2010)

## Deputy Coordinators:

James E. Johnson, USA; Susana Benedetti, Chile;

Tuija Sievänen, Finland (until 23 August 2010)

Dorothy H. Anderson, USA; Taiichi Ito, Japan; Cecil C.

Konijnendijk, Denmark (since 23 August 2010)

*Following an International Council decision at the World Congress in Seoul, Division 6 was split into two Divisions (6 and 9) because of the growing interest in the topics covered by the former Division 6. The new Division 6 focuses its research on the social aspects of forestry. This field is growing fast, as was well reflected during the IUFRO World Congress held in Seoul. Among the most visible topics were urban forests and their environmental and social impacts as well as forests and human health benefits. Research themes included urban community forestry and urban-rural linkages, visitor behavior and recreational experiences in urban woodlands, environmental impacts of urban trees and effects on human health, and the role of trees in urban air quality.*

In 2010 the Urban Forestry Research Group contributed considerably to the development of international **Urban Forestry Data Standards**. This project has been a collaborative effort with the International Society of Arboriculture (ISA) and the US Forest Research. The aim of the project is to develop an international set of data collection and reporting standards that can be used in the field of urban forestry. The standards will include research, management and planning components.

The most important emerging issue at the moment are human **health benefits from green environments**, particularly from forests near urban areas. The new concept of 'forest bathing' was introduced by Asian scientists. The forest and health issues demand multidisciplinary research, which is done in cooperation with forest scientists and scientists from the medical sector. The amount of science-based evidence in this field is growing fast.

## Sustainability and management of forests for recreation and tourism

is an on-going topic, which is now in many cases related also to the climate change issues. The current focus is on monitoring of sustainable management and the need of good social indicators. Climate change issues are increasingly present in all social research related to forestry. Research topics of adaptation and vulnerability to climate change are high on the agenda in research related to nature-based recreation and tourism, as well as in gender research. The key topics of **forestry education** are e-learning and forestry education in developing countries.

## Meetings

26-29 May 2010, Tulln/Donau, Austria: *EFUF 2010: "Urban People Meet Urban Forests"*. **IUFRO 6.14.00**

31 May – 2 June 2010, Nikosia, Cyprus: *12th International Symposium on Legal Aspects of European Forest Sustainable Development*. **IUFRO 6.13.00**

6-12 June 2010, Bled, Slovenia: *Small Scale Forestry in a Changing World: Opportunities and Challenges and the Role of Extension and Technology Transfer*. **IUFRO 6.06.01, 6.06.02, 3.08.00**

29 August-1 September 2010, Beijing, China: *International Conference for Urban Forestry in Challenging Environments (ICUFCE 2010)*. **IUFRO 6.14.00**

27 September-1 October 2010, Estes Park, Colorado, United States: *Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management. Increasing Human Capacity for Global Human-Wildlife Coexistence*. **IUFRO 6.00.00**

5-7 October 2010, Rome, Italy: *Emerging Economic Mechanisms: Implications for Forest-Related Policies and Sectoral Governance*. **IUFRO 6.12.00**

19-21 October 2010, Copenhagen, Denmark: *Managing the Urban Rural Interface: Strategies and Tools for Urban Development and Sustainable Peri-urban Land Use Relationships*. **IUFRO 6.14.00**



Photo: Beijing river park, China (by Cecil Konijnendijk)

## Forest Health - Division 7

### Coordinator:

Michael Wingfield, South Africa (*until 23 August 2010*)

Andrew Liebhold, USA (*since 23 August 2010*)

### Deputy Coordinators:

Jean-Claude Grégoire, Belgium; Kevin Percy, Canada;

Naoto Kamata, Japan (*until 23 August 2010*)

Eckehard Brockerhoff, New Zealand;

Andrzej Bytnerowicz, USA;

Jolanda Roux, South Africa (*since 23 August 2010*)

### Prominent research and discussion topics

There continues to be an important need for **forest health monitoring**. This includes the development of monitoring methods and coordination of efforts among countries. The scope of these monitoring efforts includes methodologies for estimation of pollutants such as deposition of nitrogenous and sulfurous compounds, monitoring the effects of air pollution on forests, monitoring the invasion of insects and diseases around the world and monitoring of insect and disease epidemics across landscapes.

With trends of increasing global trade, forest insects and diseases are being accidentally transported around the world at an alarming rate. Given the extreme impact that some of these organisms have had on forest ecosystems, there is a critical need to develop new **methods for managing invasions**, through diverse efforts such as identifying and closing invasions pathways (e.g. solid wood packing), detection and eradication of new establishments and controlling established exotic species populations through biological control.

Throughout the world, **climate change** is altering the conditions that trees, insects and diseases are exposed to and this has resulted in a plethora of unprecedented forest health outbreaks. Methods are needed to predict the consequences of climate change on forest insect and disease problems.

**Forest insects** comprise a critical component of forest biodiversity and information is needed both on the role of this diversity as well as on how it is affected by forest management practices.

Information is needed on how various types of **air pollution** affect forest ecosystem processes and how society values these impacts.

### Meetings

7-12 March, 2010, Rotorua, New Zealand: "*Phytophthora Diseases in Forests and Natural Ecosystems*".

**IUFRO 7.02.09**

22-26 March, 2010, Antalya, Turkey: "*24th IUFRO Conference for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems: Adaptation of Forest Ecosystems to Air Pollution and Climate Change*".

**IUFRO 7.01.00**

3-6 May, Florence, Italy: "*Fourth International Rusts of Forest Trees Conference*".

**IUFRO 7.02.05**

3-7 May, 2010, Kampala, Uganda: "*Recognition, Identification and Management of Pests and Diseases of Tropical Plantation and Forest Trees*".

**IUFRO 7.02.07**

25-27 May 2010, Casablanca, Morocco: "*People, Forests and the Environment: Coexisting in Harmony*".

**IUFRO 7.01.00, 4.02.01, 8.00.00, 1.00.00**

12-16 September, 2010, Eberswalde, Germany: "*Population Dynamics, Biological Control, and Integrated Management of Forest Insects*".

**IUFRO 7.03.06, 7.03.07, 7.03.13**

20-23 September, 2010 Baden-Württemberg, Freiburg/Breisgau, Germany: "*Biotic Risks and Climate Change in Forests: Methodology of Forest Insect and Disease Survey in Central Europe*".

**IUFRO 7.03.10**

6-8 October 2010, Vila Real, Portugal: "*Mixed and Pure Forests in a Changing World 2010*".

**IUFRO 4.00.00, 1.00.00, 7.01.00**

8-11 December 2010, Lucknow, India: "*Fourth International Conference on Plant and Environmental Pollution*".

**IUFRO 7.01.00**



Photo: Public information signs, created by the Auckland Regional Council, warning of the dangers of Kauri dieback. *Phytophthora* meeting New Zealand (by Everett Hansen)

# Forest Environment - Division 8

## Coordinator:

Alex Mosseler, Canada (*until 23 August 2010*)  
Jean-Michel Carnus, France (*since 23 August 2010*)

## Deputy Coordinators:

Jean-Michel Carnus, France; Robert Jandl, Austria  
Susan G. Conard, USA; (*until 23 August 2010*)  
Robert Jandl, Austria; Alex Mosseler, Canada;  
John Parrotta, USA (*since 23 August 2010*)

## Major research topics

The **functional role of biodiversity and the links between biodiversity and forest resilience** were of major interest throughout the year. Those topics were of particular relevance for the International Year of Biodiversity and CBD-related discussion forums and activities. In particular, Division 8 contributed to a scientific synthesis on the stability-resilience relationship in forest ecosystems published by the CBD. Results of the synthesis show how forest resilience depends on biodiversity at multiple scales, and how the maintenance and restoration of biodiversity in forests promotes their resilience to human-induced pressures and therefore provides a measure of insurance against climatic risks.

Another prominent research topic concerned the **protective functions of forests for water quality and water-related hazards**, as well as adequate water supplies for forest ecosystems, which are potentially at risk due to changing climate and changing land use and management practices. Enhancement of knowledge on forest and water interactions at different scales is essential to allow the development of integrated forest and watershed management guidelines for the protection and production of water in the future.

New frontiers in **landscape ecology, management, conservation and restoration** were also explored in 2010 in the context of global change, highlighting multi-scale approaches and human dimension of landscape ecology for: understanding complex processes and landscape complexity; optimizing goods and services at multiple landscape levels; and developing new methods and tools for forest managers.

Emerging topics which were discussed at the Seoul World Congress concern **cross-cutting issues** including biodiversity and climate change interactions, impacts of climate change on forest ecosystems services such as water protection, soil conservation and carbon sequestration, and multiple risks assessment and management in collaboration with Division 7. Those emerging topics are reflected in the structure and units of Division 8, such as the new Working Parties on aquatic biodiversity in forests (WP 8.02.06), on bioenergy production systems and forest biodiversity (WP 8.02.07), and the expanded Research Group 8.03 on natural hazards and risk management.



*Photo: Participants during one of the four simultaneous in-conference field trips to the Nogueira oak woodlands (by Jiquan Chen)*

## Meetings

12-14 April 2010, Beijing, China: *International Conference on the Efforts in Response to Forest-Related Natural Disasters*. **IUFRO 8.00.00**

26-28 April 2010, Tokyo, Japan: *The Role of Forest Biodiversity in the Sustainable Use of Ecosystem Goods and Services in Agro-forestry, Fisheries, and Forestry*. **IUFRO 8.02.00**

24-26 May 2010, Ardebil Province, Iran: *First International Soil and Roots Engineering Relationship Conference*. **IUFRO 8.00.00**

25-27 May 2010, Casablanca, Morocco: *People, Forests and the Environment: Coexisting in Harmony*. **IUFRO 8.00.00, 4.02.01, 7.01.00, 1.00.00**

9-13 August 2010, Sundsvall, Sweden: *PRIFOR 2010: Northern Primeval Forests: Ecology, Conservation and Management*. **IUFRO 8.01.01**

21-27 September 2010, Bragança, Portugal: *Forest Landscapes and Global Change: New Frontiers in Management, Conservation and Restoration*. **IUFRO 8.01.02**

At pan-European level, Division 8 officeholders and Working Parties are active in several CO-operative actions in Science and Technology (COST) in relation with forest environment research topics:

COST Action 639 *Greenhouse Gas Budget of Soils under Changing Climate and Land Use (BurnOut)*

COST Action FP 0601 *Forest Management and the Water Cycle (FORMAN)*

# Forest Policy and Economics - Division 9

## Coordinator:

Daniela Kleinschmit, Sweden (since 23 August 2010)

## Deputy Coordinators:

Margaret A. Shannon, Croatia, Konstantin von Teuffel, Germany (since 23 August 2010)

*The role of forests and forestry has changed in the last decades. Forests are no longer seen simply as a source for timber supply, but rather as ecosystems that sustain livelihoods and provide a range of products and environmental services. Additionally, forests encounter challenges like market globalization and global environmental problems calling for new requirements for sustainable forest management. The aim of the new Division 9 Forest Policy and Economics is to study the elements and function of this social dimension of forests. Different research perspectives such as the historical, economic and political perspectives as well as the regulative dimension and areas like management, information and communication contribute to achieving this aim.*

The role of **tradition and traditional knowledge** is an important factor for the future demands and challenges of forests. International conferences co-sponsored by Working Parties 9.03.01 and 9.03.05 in 2010 highlighted the importance of the connection between people and their natural environment to ensure critical environmental services also in the future.

The **1<sup>st</sup> Nordic Network Conference on Forest Policy Science** co-sponsored by 9.00.00 gave the opportunity

to meet and network for scientists dealing with forest policy issues from a social scientific perspective. Common approaches and synergies of complementary results supporting a comprehensive insight in the social dimension of forests have been identified at the conference.

In the last decade the concept of community forestry has become increasingly relevant because of its success for livelihoods and forests. The **State-level Training on Community Forest Areas** in Bhubaneswar, India sponsored by Working Party 9.05.06 and hosted by the Regional Centre for Development Cooperation (RCDC) supported the development of implementing concepts of community forestry in India. The training focused on effective silvicultural practices.

## Meetings

15-17 September, Sheffield, UK: *The End of tradition? Aspects of Commons and Cultural Severance in the Landscape.* **IUFRO 9.03.01**

13-15 October, Uppsala, Sweden: *1<sup>st</sup> Nordic Network Conference on Forest Policy Science.* **IUFRO 9.00.00**

14-15 December, Kanazawa, Japan: *3rd International Conference on Forest-Related Traditional Knowledge and Culture in Asia.* **IUFRO 9.03.05**

22-23 December, Bhubaneswar, India: *Community Forestry.* **IUFRO 9.05.06**

## Task Force on Forests and Human Health

**Coordinator:** Hannu Raitio, Finland

**Deputy Coordinator:** Matti Rousi, Finland

*In the year 2010, the activities of the IUFRO Task Force on Forests and Human Health focused on two topics: the physiological and mental health effects of forest visits, and the health impact assessment of forestry projects (F-HIA).*

The Task Force organised two sessions on forests and human health at the IUFRO World Congress. These concentrated on the health benefits that nature can induce in human physiology and psychology. There were vivid discussions about the appropriate research methodology.

During the year 2010, the co-operation between Europe and Asia, especially in the field of psychophysiological health effects of forests, was strengthened in significant ways. A co-operative research project on **Stress reducing**

**qualities of urban green areas** was funded by the national funding organisations of Finland and Japan. In addition, a new **International Society of Nature and Forest Medicine** was established. This society will promote the research activities in the field and provide a platform for stakeholders by applying the research knowledge in practice.

The Task Force arranged one of the IUFRO-SPDC Training Workshops before the World Congress: **Health impact assessment of forestry projects (F-HIA)**. This one-week workshop was targeted at early and mid-career scientists from Asia, Africa and Latin America having 16 participants from eight countries. F-HIA systematically reviews the health aspects associated with a development policy, plan or project for a forested area.



## Special Programme for Developing Countries - IUFRO-SPDC

### **Coordinator:**

Michael Kleine, Austria

### **Regional Coordinator for Asia Pacific:**

Sim Heok-Choh, Malaysia

### **Regional Coordinator for Latin America and the Caribbean:**

Bastiaan Louman, Costa Rica



*The World Congress year 2010 marked another milestone in IUFRO's successful training initiatives organized by the IUFRO Special Programme for Developing Countries (SPDC). For the first time, the **Pre-Congress Training** in Korea offered both a selection of four thematic workshops and two additional training modules on science-policy interfacing and information management. The one-week event received broad recognition by the participants and their home organizations, demonstrating SPDC's vital contribution to global forest science training.*

IUFRO's SPDC in cooperation with the Korea Forest Research Institute organised this Pre-Congress Training Event at the Forest Human Resources Development Institute of the Korea Forest Service in Namyangju City (near Seoul) from 16-21 August 2010. Four thematic workshops on current issues of global and regional importance, namely (I) forests and climate change; (II) traditional forest knowledge; (III) forests and water interactions; and (IV) forest and human health were organised in parallel sessions during the Pre-Congress Workshop week. Each workshop was led by a senior scientist specialised in the respective workshop theme. One or more resource persons assisted them and contributed specific topics and case studies from various regions in the world.

Each thematic workshop was complemented by two additional training modules, one on science-policy interfacing and one on information management. These

training modules provided participants with the opportunity to learn more about best practices for the interaction between science and policy as well as internet-based information management tools and applications.

A half-day field trip to the nearby Korea National Arboretum, Forest Museum, and Experimental Forest of the Korea Forest Research Institute allowed participants to learn about forests and forest research in Korea. In the afternoon of the last day, all participants worked together in a knowledge café for joint interaction and debate. This approach was used to address pertinent questions about the way forest research is conducted today and its impacts on shaping future forest-related policies and on-the-ground forest management.

Out of a total of 160 scientists applying from developing countries, 69 from 28 countries of Africa, Asia and Latin America have been approved for participation in the Pre-Congress Training (32 women, 37 men). Besides the Scientist Assistance Program (SAP) organised by the COC, IUFRO-SPDC offered scientists in developing countries a support package for participation in both the training workshops and the IUFRO World Congress. IUFRO-SPDC covered the cost of the training workshops of all 69 participants, while the COC-SAP and IUFRO-SPDC shared the costs of their Congress participation with 35 scientists covered by IUFRO-SPDC. In addition, 9 scientists (3 from Africa, 6 from Asia) were sponsored by IUFRO-SPDC for Congress participation only, overall resulting in a full or partial sponsorship of 78 participants from developing countries. As most of the travel expenses for the 22 trainers were also financed through IUFRO-SPDC budgets, a total of 100 scientists benefited from IUFRO-SPDC sponsorship. This training event, the largest ever organized by IUFRO-SPDC was made possible through generous funding by the Korea Forest Research Institute, the Ministry of Foreign Affairs of Finland, the US Forest Service, the Austrian Ministry of Agriculture, Forestry, Environment and Water Management, and the Food and Agriculture Organization of the United Nations.

*IUFRO-SPDC Pre-Congress training workshops  
(photos provided by Michael Kleine)*



## Special Project on World Forests, Society and Environment - IUFRO-WFSE

**Coordinator:** Gerardo Mery, Finland

*IUFRO-WFSE is a global network of researchers which provides a platform for multi-disciplinary analysis and scientific debates on the forests, society and the environment interface. Through its activities WFSE contributes to the implementation of work package 1 of the partnership agreement between FORMIN and IUFRO.*

The most important activity carried out by WFSE during 2010 was the completion of a new publication on **Forests and Society – Responding to Global Drivers of Change**, which was finalized in a meeting of editors organized in January 2010 on FAO premises in Rome. The book was launched in the IUFRO XXIII World Congress held in Seoul, Republic of Korea, in August 2010. Numerous printed copies of the book were disseminated at the Congress and since then it has been widely distributed by the project core team in Helsinki and by WFSE partner organisations. Online internet dissemination, through our IUFRO-WFSE Internet page, has also played an important role for making the book available to hundreds of readers. The book has been well received and feedback has been positive and encouraging. Simultaneously with the paper copies, a CD which contains the entire book was produced and distributed.

Late last year, a group of editors took on the task of extracting key messages from the new book to produce a new policy brief (PB) entitled **Making Forests Work for People and Nature - Responding to Global Drivers of Change**. Seven editors produced a draft version in October 2010 in collaboration with the University of Cordoba, Spain. The draft was subsequently developed and polished by the editors and the final version was produced in December 2010. It was printed in January 2011 and it was launched at the IUFRO side event in the 9th session of the United Nations Forum on Forests (UNFF) on 31 January 2011 in New York City. Official representatives from over 160 countries received the PB in that event, what was clearly an important opportunity for providing decision makers from throughout the world with a concise synthesis of the major conclusions of our book. The dissemination of the book and policy brief will continue throughout 2011.

The **Policy Brief on Asia: Asian Forests: Working for People and Nature** was launched at the FAO-COFO meeting organized from 4-8 October 2010 in Rome. The Policy brief was jointly developed by WFSE, FAO and RECOFT.

## The Global Forest Information Service - GFIS

**Coordinator:** Eero Mikkola, Finland

*The Global Forest Information Service (GFIS) - <http://www.gfis.net> - as an internet portal, provides a single entry point to disseminate and share a wide range of forest-related information. The CPF joint initiative developed a common information exchange platform and is building capacity and enhancing partnerships among providers and users of forestry information. GFIS is led by IUFRO, in collaboration with FAO, CIFOR, the UNFF Secretariat and ICRAF.*

The **upgraded GFIS gateway** was launched in August 2010 on the occasion of the XXIII IUFRO World Congress in Seoul, Republic of Korea. The GFIS gateway reform aimed at improving usability, functionality and informativity of the gateway. Since August the upgraded gateway was promoted successfully at the IUFRO World Congress among current users and information providers.

There were over 250 information provider partners that maintain over 270 forest related RSS feeds from around the world linked to the GFIS search at the end of 2010. The most popular information types are “news”, “events” and “publications”. Users can find around 500 fresh news, over 150 upcoming events and 150 new publications weekly via the GFIS gateway.

One step towards enhancing the exchange and dissemination of forest information generated by the forest science community in Africa is the establishment of an on-line **FORNESSA Information Service (FORNIS)**. The GFIS team launched the FORNIS web site <http://www.fornis.net> in June 2010. After the launch the member institutes of FORNESSA uploaded information - mainly publications - to the service which is getting new users constantly. FORNIS is a joint project of GFIS and the IUFRO Special Programme for Developing Countries (IUFRO-SPDC), and it is sponsored by USFS and ITTO. Metla also contributes to the project.

In order to further expand GFIS all over the world the GFIS gateway and the partnership concept were introduced to potential partners in several global and regional seminars and workshops by the Coordinator and the Regional Coordinator for Asia and Russia.

Based on the increased usage of the gateway, the GFIS Coordination Unit is very grateful to all information provider partners and users for their cooperation and contribution to the success of GFIS in 2010.

# CPF Global Forest Experts Panels - GFEP

**Coordinator:** Alexander Buck, Austria

As a follow-up activity of the successful *Global Forest Expert Panel on Adaptation of Forests and People to Climate Change*, the regional policy brief entitled **“Making African Forests Fit for Climate Change”** was prepared together with IUFRO-SPDC and in collaboration with the thematic group “Forest and climate change” of the Forestry Research Network for Sub-Saharan Africa (FORNESSA). The policy brief is based on a detailed analysis of relevant information contained in the global assessment report that had been launched in 2009 and more than 250 additional literature references identified by the African experts. It aims to contribute to the development of effective adaptation strategies in Africa and to facilitate related international efforts. The policy brief was formally presented at the 14th meeting of the Subsidiary Body on Scientific, Technical and Technological Advice of the Convention on Biological Diversity held from 10 to 21 May 2010 in Nairobi, Kenya.

Throughout 2010, the new *Panel on International Forest Regime*, which had been set up in 2009 comprising leading experts in the fields of political science and environmental governance elaborated an assessment report to be ready for presentation at UNFF9 in early 2011, just in time for the International Year of Forests. As part of the assessment process, the panel members met at the Headquarters of the United Nations Environment Programme in Nairobi, Kenya to discuss the draft manuscripts of the assessment report and identify the conclusions emerging from the assessment. The experts who gathered in Nairobi agreed on the idea of “embracing complexity” as the main storyline of the report and highlighted the potential for positive interactions between key elements of the international forest regime on issues such as reducing emissions from deforestation and forest degradation, access and benefit sharing, and forest law enforcement, governance and trade.

In autumn 2010 the report **“Embracing complexity: Meeting the challenges of international forest governance. A global assessment report”** was published as IUFRO World Series 28. The results of the assessment confirm that the forest regime involves a multitude of state and non-state actors, instruments and discourses that have shifted over time. The regime is trying to operate at many different levels and to take account of developments in a variety of other sectors where policy decisions will have an impact on forests. Yet, this complex ‘mix’ of elements also allows for cooperative relationships and positive regime interactions that can be nurtured by means of improved coordination, policy learning and structured participation.

The report received significant media coverage around the globe and sounded the alarm to international and national policy makers to focus greater attention on a

more effective and inclusive governance of the world’s forests. As an important outcome, the project has confirmed the effectiveness of GFEP as a scientific advisory mechanism for forest-related international policy processes that can also address other key issues of global concern in the future.

In addition to the report, a Policy Brief on **“Embracing complexity in international forest governance: a way forward”** was also published and translated into French and Spanish. It summarized the findings of the comprehensive assessment and aims to provide policy and decision makers with essential knowledge and building blocks required for a more effective and inclusive governance of the world’s forests.

*Photos by courtesy of GFEP:  
Meeting of panel members in Nairobi (top)  
Meeting of Coordinating Lead Authors in Singapore (bottom)*



## New IUFRO Executive Director



After almost seven years as IUFRO Executive Director, **Peter Mayer** became head of the Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW) in Vienna assuming office on 1 August 2010.

When Peter Mayer took the lead at IUFRO Headquarters in December 2003, he had a clear vision of the importance of science-based

contributions to the international policy discussion on forests. He saw a huge potential for IUFRO to play an important role in the development of scientific forest-related knowledge and its provision to stakeholders and decision-makers.

Over the past seven years, IUFRO has certainly turned into a more active and visible partner in international policy forums and debates on forests and has thus been able to assert itself in a competitive environment. Peter Mayer had a great share in this achievement thanks to his continuous endeavors to position the organization more closely at the science-policy interface and to broaden its scope to address changing research needs.



**Alexander Buck** succeeded Peter Mayer as Executive Director on 1 December 2010 after a thorough selection process.

Alexander Buck's vision of IUFRO is that of an even more active global network in which the best scientists from a diverse range of disciplines engage to provide scientific information required for solving key forest problems of the present and

the future. He would like to see IUFRO reach out even more strongly to scientists from forest-related disciplines such as agricultural research, environmental economics, political science, and even medical science.

Of course, the IUFRO HQ team and their ED are strongly committed to consolidating and systematically enhancing the level and quality of support to members and officeholders so that by 2014 IUFRO will have made a major leap forward towards realizing this vision, expressed in an increased and more diverse membership of IUFRO, and the delivery of key scientific outputs on all six themes of the Strategy.

## Communication and Public Relation Activities at IUFRO Headquarters

One of the three institutional goals defined in the IUFRO Strategy 2010-2014 is "to strengthen communication within the scientific community and increase visibility of science-based research findings", since "IUFRO's attractiveness is closely connected with its communication and marketing capabilities."

The **IUFRO website** as the main means of communication has been improved constantly on the basis of the new web design that had been launched earlier. The website layout was adapted gradually until its present format. Among the features added in 2010 on the website are the "Featured Member" section and the "Media" corner.

**IUFRO News** as another important means of communication has also been updated constantly with the latest changes in appearance in May 2010.

With regard to **media outreach**, IUFRO has geared up its activities in promoting the IUFRO World Congress 2010 by launching a series of 9 news stories related to the nine major Congress themes. These news stories were written by a science journalist in close cooperation with forest scientists and translated into German, French and Spanish.



Larch (Photo by Marc Primavera, Canada)

## Outlook

### IUFRO's Roadmap for More Integrative Research

By Niels Elers Koch, IUFRO President

Forestry has come a long way from a historically mostly economic approach towards adopting a more holistic attitude that embraces environmental and social aspects as well. IUFRO as the global forest science organization has accompanied this development for over hundred years by promoting the exchange and provision of scientific knowledge. In doing so, IUFRO has repeatedly shown great foresight with regard to emerging issues and developments concerning forests worldwide.

IUFRO's original objective of facilitating research collaboration and the dissemination of research results by networking activities still remains the backbone of the organization. However, the focus has in recent years markedly shifted from a more inward looking perspective within the boundaries of forest science disciplines towards opening up to a truly cross-cutting and more interdisciplinary and integrative understanding that explicitly reaches out to policy and decision makers and, thus, to society at large.

This development is clearly reflected in the IUFRO Strategy 2010-2014 with the title "Reading the pulse of forest science for the benefit of forests and people" where for the first time six overarching research themes have been defined for the work of IUFRO:

- **Forests for People,**
- **Forests and Climate Change,**
- **Forest Bioenergy,**
- **Forest Biodiversity Conservation,**
- **Forest and Water Interactions, and**
- **Resources for the Future.**

A major step forward in working with these six research themes was the decision taken by the IUFRO Board at the IUFRO World Congress in Seoul to set up six corresponding Task Forces and find internationally renowned experts for their coordination. At a scientific seminar held on February 24-25, 2011 in conjunction with the 50<sup>th</sup> IUFRO Board Meeting in Vienna, Austria, representatives from all IUFRO Divisions and the future Task Force leaders came together to discuss how and to which extent a truly interdisciplinary cooperation could take place. For each of the six themes they jointly identified areas of research that needed to be covered in order to provide the most useful answers for and add the highest value to the ongoing science and policy discourses by 2014.



*IUFRO President Niels Elers Koch, University of Copenhagen, Forest and Landscape (Photo by Christoffer Regild)*

Basically, the Task Forces will synthesize research rather than do new research. They will, of course, have to make sure not to duplicate existing or ongoing work, target their output not only to the scientific community but also to policy makers, include experts from both within and outside the IUFRO network, and develop adequate means of communication. The topic of Forest Governance should be a cross-cutting issue in all Task Forces and, additionally, a new Task Force on Forest Governance is therefore also under consideration.

Major occasions for discussing and showcasing preliminary results will be the upcoming IUFRO regional congresses, all-Division meetings, and, of course, the next IUFRO World Congress in Salt Lake City, USA, in 2014. There will be an all-Division 5 conference in Portugal in 2012 as well as an African regional IUFRO congress in Kenya in the same year, and a Latin American regional congress in Costa Rica in 2013. The first event explicitly related to one of the six research goals will be an international forest bioenergy conference to be held in autumn 2011 in Austria.

From the feedback received from the participants in the scientific seminar, IUFRO has definitely been successful in putting the new Task Forces on track. Now it is up to all of us who want to get involved actively to keep them on the road to success up to 2014 and beyond for the benefit of forests and people.

# Finances

Note: All figures in the tables are given in EUR.

IUFRO Balance - as per 31 December 2010 in Euro			
<b>ASSETS</b>			<b>EQUITY and LIABILITIES</b>
<b>A. Fixed assets</b>		<b>TOTAL</b>	<b>A. Equity</b>
			<b>TOTAL</b>
I. Intangible assets	288		Capital as per 31/12/2009
II. Tangible assets	<u>12,772</u>		Profit 2010
<i>Total</i>		13,060	<i>Total</i>
			762,014
<b>B. Current assets</b>			<b>B. Accruals</b>
			74,700
I. Accounts receivable	30,089		
II. Other receivables	74,927		<b>C. Liabilities from contributions not yet used</b>
III. Cash on hand and in banks	<u>1,079,240</u>		314,885
<i>Total</i>		1,184,256	<b>D. Liabilities</b>
			40,991
<b>C. Prepaid expenses</b>		1,882	<b>E. Deferred Income</b>
			6,608
<b>TOTAL ASSETS</b>		<b>1,199,198</b>	<b>TOTAL LIABILITIES</b>
			<b>1,199,198</b>

IUFRO International Union of Forest Research Organizations - UNION Profit and Loss - Overview 31 December 2010 in EUR	
<b>Capital 31 December 2009</b>	<b>712,392</b>
<b>INCOME 2010:</b>	
Membership fees	230,770
Publications	1,620
Donations for budget year 2010	1,248,471
Other income/refunds	14,058
Interest (bank)	1,603
Annual result of financial assets	30,382
	1,526,905
<b>EXPENDITURE 2010:</b>	
Salaries and contracts	-608,433
Contributions for third organizations	-136,066
Office equipment and maintenance	-18,490
Printing, postage and PR activities	-135,744
Travel	-96,287
Organization of meetings, travel support, SAP	-373,175
Legal expenses, accounting	-44,058
Equipment, rent utilities, insurances	-21,785
Bank charges, currency differences	-10,948
Others	-32,298
	-1,477,282
Profit/Loss for the year 2010	49,622
<b>Capital 31 Dec 2010</b>	<b>762,014</b>

## Sponsorships (Grants and In-kind Contributions to IUFRO in 2010)

IUFRO is most grateful to all our donors  
for their generous contributions!

### Sponsor categories:




	<b>GOLD</b> -	more than EUR 100,000
	<b>SILVER</b> -	from EUR 50,000 to 100,000
	<b>BRONZE</b> -	from EUR 25,000 to 49,999



Photo (provided by Dave Cown):  
Wood culture in Korean urban landscape, IUFRO Division 5

DONORS	SPDC	GFIS	WFSE	GFEP	Secretariat	Other activities <sup>2</sup>	In-kind contributions <sup>3</sup>	TOTAL
Austrian Government	0	0	0	0	287,000	0	119,400	<b>406,400</b>
Korea Forest Research Institute (KFRI)	177,700	29,600	0	0	129,600 <sup>1</sup>	33,300	0	<b>370,200</b>
Ministry for Foreign Affairs of Finland	100,000	0	100,000	120,000	0	0	0	<b>320,000</b>
Finnish Forest Research Institute (METLA)	0	0	0	0	0	0	179,300	<b>179,300</b>
US Forest Service (USA)	80,700	7,900	0	36,300	11,100	0	0	<b>136,000</b>
Swiss Agency for Development and Cooperation	0	0	0	32,000	0	0	0	<b>32,000</b>
Food and Agricultural Organization (FAO)	7,500	0	0	0	0	0	0	<b>7,500</b>
Yuhan Kimberly	5,200	0	0	0	0	0	0	<b>5,200</b>
Federal Ministry for Economic Cooperation and Development of the Federal Republic of Germany (BMZ)/ German Agency for Technical Cooperation (GTZ)	4,600	0	0	0	0	0	0	<b>4,600</b>

Note: All figures are given in EUR.

<sup>1</sup> IUFRO President's Office, Korea  
<sup>2</sup> Support for Regional Chapters

<sup>3</sup> These are non-cash contributions such as staff time and office facilities

# New Members in 2010

## Member Organizations

### Finland

Membership number 960.00.00  
Metsätieteiden laitos  
P.O. Box 27 (Latokartanonkaari 7)  
00014 University of Helsinki

### Georgia

Membership number 964.00.00  
Vasil Gulisashvili Forest Institute (VGFI)  
9 Mindeli str.  
0186 Tbilisi

### Germany

Membership number 965.00.00  
Fachhochschule Erfurt  
Fakultät Landschaftsarchitektur, Gartenbau, Forst  
Postfach 45 01 55  
99051 Erfurt

Membership number 966.00.00  
ForestFinance Service GmbH  
Eifelstraße 20  
53119 Bonn

### India

Membership number 961.00.00  
Regional Centre for Development Cooperation (RCDC)  
A-68, 1st Floor, Sahid Nagar  
Bhubaneswar, Odisha 750007

Membership number 967.00.00  
Grasim Industries Limited  
Unit Harihar Polyfibers  
Kumarapatnam  
Dist. Haveri, Karnataka 581123

### Indonesia

Membership number 962.00.00  
Forestry Research and Development Agency (FORDA)  
Ministry of Forestry  
Manggala Wanabakti Building Block I, Floor 11  
Jalan Gatot Subroto  
Jakarta 10270

### Kyrgyzstan

Membership number 968.00.00  
Kyrgyz National Agrarian University  
Faculty of Innovation Technology  
68 Mederov Street  
720005 Bishkek

### Mexico

Membership number 963.00.00  
Comisión Nacional Forestal  
Periferico Poniente No. 5360  
Colonia San Juan de Ocotán  
Zapopán, Jalisco CP 45019

### South Africa

Membership number 959.00.00  
Forestry and Agricultural Biotechnology Institute (FABI)  
Faculty of Natural and Agricultural Sciences  
University of Pretoria  
Pretoria 0002

### Spain

Membership number 958.00.00  
Centre Tecnològic Forestal de Catalunya  
Ctra. de Sant Llorenç de Morunys Km 2  
25280 Solsona

## Associated Members

### Austria

Membership number 744  
Schuster Karl  
ARGE NÖ Christbaumproduzenten  
Wiener Str. 64  
3100 St. Pölten

### Canada

Membership number 743  
An Shan Suk-Hwan  
40 Tyre Ave.  
Toronto, Ontario M9B 1R3

### Chile

Membership number 746  
Schiappacasse Ignacio  
Universidad de Concepción  
Laboratorio de Ecología de Paisaje  
Casilla 160-C - Victoria 471 - Barrio Universitario  
Concepcion

### Finland

Membership number 742  
Kozlov Mikhail  
Turun yliopisto  
Ekologian osasto  
20014 Turku

### Germany

Membership number 741  
Sprenger Torsten  
Am Weendelsgraben 5  
37075 Göttingen

### Nicaragua

Membership number 740  
Salazar Estanislao  
Farmacia Corea Molina 1 block west and 1/2 block north  
Esteli

### Russian Federation

Membership number 747  
Laletin Andrey  
Akademgorodok 28-9  
Krasnoyarsk 660036

### United States

Membership number 745  
Hodges Donald  
University of Tennessee  
Department of Forestry, Wildlife and Fisheries  
274 Ellington Plant Sci. Bldg.  
Knoxville, Tennessee 37996-4563

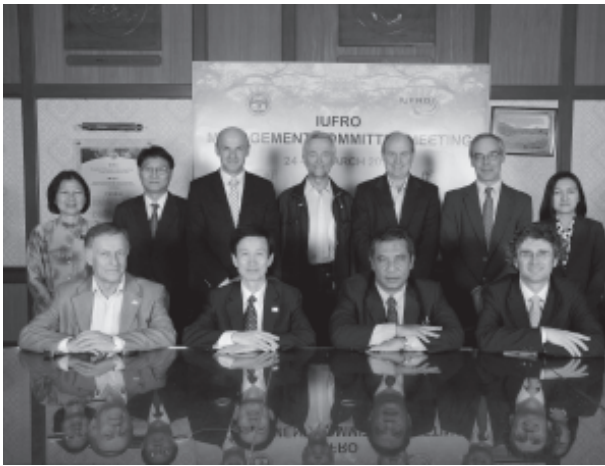


# IUFRO Organizational Information, Structure and Statistics



## Geographical Distribution of IUFRO Officeholders, Member Organizations, Meetings:

Region	Officeholders	Member Organizations	Meetings
Europe	281	232	34
Northern America	180	130	4
Latin America	39	55	5
Africa	23	55	2
Asia	131	132	20
Oceania	41	25	2
<b>Total</b>	<b>695</b>	<b>629</b>	<b>67</b>



*IUFRO Management Committee Meeting in Kuala Lumpur, Malaysia (photo courtesy of FRIM)*

## IUFRO Headquarters Publications - 2010

### **IUFRO World Series Vol. 28**

#### **Embracing Complexity: Meeting the Challenges of International Forest Governance**

*A global assessment report. Prepared by the Global Forest Expert Panel on the International Forest Regime.*

### **IUFRO World Series Vol. 27**

#### **Asia and the Pacific Forest Products Workshop**

*Green Technology for Climate Change Mitigation and Adaptation*

### **IUFRO World Series Vol. 25**

#### **Forests and Society – Responding to Global Drivers of Change**

### **IUFRO Occasional Paper 24**

#### **Climate Change Impacts on African Forests and People**

### **IUFRO News Vol. 39, issues 1 – 11/12 (2010)**

#### **Noticias de IUFRO – 2 issues**

#### **13 Scientific Summaries**

#### **IUFRO Annual Report 2009**

## Editorial:

### **Annual Report 2010:**

*Copyright by IUFRO, Vienna, 2010*

*Edited by Gerda Wolfrum, IUFRO Headquarters Vienna, Austria*

### **Printed in Austria by:**

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## IUFRO Board until 23 August 2010

### **IUFRO Senior Officeholders:**

*President: Don K. Lee, Korea (Rep)*

*Vice President Science: Niels Elers Koch, Denmark*

*Vice President Policy: John Innes, Canada*

*Immediate Past President: Risto Seppälä, Finland*

*Executive Director: Peter Mayer, Austria*

### **Division Coordinators:**

*Division 1: Björn Hånell, Sweden*

*Division 2: Baillian Li, USA*

*Division 3: Hans Rudolf Heinemann, Switzerland*

*Division 4: Margarida Tomé, Portugal*

*Division 5: David Cown, New Zealand*

*Division 6: Perry J. Brown, USA*

*Division 7: Mike Wingfield, South Africa*

*Division 8: Alex Mosseler, Canada*

### **General IUFRO Board Members:**

*Vitor Afonso Hoeflich, Brazil; Roberto H. Ipinza, Chile; Shirong Liu, China; Heinrich Spiecker, Germany; Tohru Nakashizuka, Japan; Su See Lee, Malaysia; Mohammed Ellatifi, Morocco; Piotr Paschalis-Jakubowicz, Poland; Victor K. Teplyakov, Russia*

### **Other IUFRO Board Members:**

*FAO Representative on IUFRO Board:*

*Jan Heino, FAO*

*IUFRO Congress Organizing Committee Chair:*

*Jung-Hwan Park, Korea (Rep)*

*IUFRO Headquarters Host Country Representative:*

*Gerhard Mannsberger, Austria*

**New Board 2010-2014: see page 5**

## Coordinators

### **Task Forces**

*Forests and Human Health: Hannu Raitio, Finland*

### **TFs discontinued**

*Communicating Forest Science*

*Daniela Kleinschmit, Germany*

*Forests and Carbon Sequestration: Werner Kurz, Canada*

*Forests and Water Interactions: N.N.*

*Illegal Logging and FLEGT (Forest Law Enforcement, Governance and Trade): Andreas Ottitsch, United Kingdom*

*Improving the Lives of People in Forests:*

*Carol Colfer, Indonesia*

*Traditional Forest Knowledge: John Parrotta, USA*

### **Special Programmes, Projects and Initiatives:**

*IUFRO Special Programme for Developing Countries*

*(SPDC): Michael Kleine, Austria*

*SilvaVoc Terminology:*

*Renate Prüller, Austria*

*IUFRO World Forests, Society and Environment (WFSE):*

*Gerardo Mery, Finland*

*Global Forest Information Service (GFIS):*

*Eero Mikkola, Finland*

*CPF Global Forest Expert Panels (GFEP):*

*Alexander Buck, Austria*

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## Mission

IUFRO promotes global cooperation in forest-related research and enhances the understanding of the ecological, economic and social aspects of forests and trees, including wood and non-wood products, goods and services. It disseminates scientific knowledge to stakeholders and decision-makers and contributes to forest policy and on-the-ground forest management.



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