



Annual Report 2013



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

The World's Network of Forest Science

Foreword

By Niels Elers Koch, IUFRO President

The year 2013 was remarkable in many respects. First and foremost, in the year prior to the IUFRO World Congress 2014 in Salt Lake City, USA, **an exceptional number of 80 IUFRO co-sponsored meetings** was held, the most prominent of which was undoubtedly the **3rd IUFRO Latin American Congress** in San José, Costa Rica, on 12-15 June.

With almost 600 participants, 4 keynote addresses, some 300 scientific papers presented in 53 technical sessions and 182 poster presentations, this congress exceeded all expectations and outnumbered previous regional IUFRO Congresses by far. This clearly shows the extraordinary interest and need of scientists in Latin America to share and exchange information on forest-related issues that are high on the agenda in the region. IUFROLAT III, which was jointly organized by CATIE (Agricultural Research and Higher Education Center) and IUFRO, focused on the theme of **“Forests, Competitiveness and Sustainable Landscapes”**.

At the IUFRO Board meeting prior to the Congress, a decision was taken to **recommend** to the IUFRO International Council to have **Curitiba, Brazil**, as the venue for the next **IUFRO World Congress in 2019**. This announcement was received with enthusiasm by the participants of IUFROLAT.

Furthermore, the **presidents of IUFRO and IFSA**, the International Forestry Students' Association, signed an agreement at the IUFRO Board Meeting, which, among other things, provides the legal foundation for a **new joint IUFRO/IFSA position hosted by the IUFRO Secretariat** in Vienna, Austria. This was for both organizations a great step that will, on the one hand, increase the continuity of IFSA and, on the other hand, generate constant input of young talent to IUFRO.

In this context, I am also very happy and proud to say that in 2013 **Austria strengthened its host country role** not only by supporting this newly created joint IUFRO/IFSA position but also by providing new premises for IUFRO Headquarters in a building of the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management in central Vienna. The **official opening of the new IUFRO offices** could, thus, be celebrated on the first **International Day of Forests on 21 March 2013**. IUFRO is very grateful to Austria for the strong and mutually beneficial support over the years.

In 2013 IUFRO was again represented in a series of international fora and events, which clearly shows that IUFRO's visibility at the science-policy interface has considerably grown in recent years. In April, IUFRO used the **tenth session of the United Nations Forum on Forests (UNFF 10)** in Istanbul, Turkey, to present itself to stakeholders ranging from state representatives to young forest students and all other partner organizations. IUFRO contributed to the high-level Collaborative Partnership on Forests (CPF) Dialogue which addressed the need for enhanced cooperation and policy and program coordination.

On 16 and 17 November 2013, the first **Global Landscapes Forum (GLF)** was organized at the University of Warsaw, Poland, on the sidelines of the 19th Conference of the Parties (COP19) to the UN Framework Convention on Climate Change (UNFCCC). IUFRO contributed actively to the GLF in its capacity as a member of the CPF. Furthermore, on 18 November the CPF also unanimously approved the establishment of a **new IUFRO-led Global Forest Expert Panel (GFEP) on Forests and Food Security**. The new Panel will comprehensively assess the link-



*IUFRO President Niels Elers Koch at the IUFRO HQ opening reception
(Photo by Markus Rief, BMLFUW)*

ages between forests and trees and food security and nutrition with results expected in spring 2015.

Moreover, in 2013 IUFRO was formally admitted as a member to the newly established **Collaborative Partnership on Sustainable Wildlife Management**. It can be expected that IUFRO will play an active role in this partnership as it has done so admirably in the Collaborative Partnership on Forests (CPF).

I would also like to highlight that several important decisions were made in 2013 which will impact on the future activities and operations of IUFRO. The long standing IUFRO Special Programme for Developing Countries, for example, underwent a name change while keeping the same acronym IUFRO-SPDC to become the **IUFRO Special Programme for Development of Capacities**.

Of course, the year 2013 was also a most active and successful one with regard to the **preparations for the IUFRO World Congress, 5-11 October 2014, in Salt Lake City, Utah, USA**. From the call for session proposals early in the year until the opening of registration, the Congress preparations gained increasing momentum. Hopes are high that the 2014 IUFRO World Congress will be another memorable event of major impact and outstanding scientific quality. My special thanks go to the members of the IUFRO 2014 Congress Organizing Committee and the Congress Scientific Committee!

Let me finally seize this opportunity to **thank all our office-holders, members, donors, friends** as well as our staff at IUFRO Headquarters for their extraordinary commitment and work throughout 2013. I hope to see you all at the **XXIV IUFRO World Congress!**



*Post-IUFROLAT excursion
(Photo provided by Michael Kleine, IUFRO)*



*IUFRO Board Meeting in Turrialba, Costa Rica
(Photo by Ramin Khorchidi, IUFRO)*

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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 web sites and reports or IUFRO News.

Please note that in the IUFRO context the term “to sponsor” a meeting does not imply any financial assistance. It means that IUFRO officeholders are prominently involved in the meeting and that IUFRO supports the promotion of the event in its media.



Joint IFSA-IUFRO Side Event at 2nd European Forest Week in Rovaniemi, Finland (Photo provided by Vasja Leban, IFSA)

IUFRO President Niels Elers Koch (right) and Head of Austrian Forestry Department, Gerhard Mannsberger at the opening IUFRO HQ reception (Photo by Markus Rief, BMLFUW)

Outlook

A Message from Su See Lee, Malaysia IUFRO Vice-President Task Forces, Special Programmes, Projects and IUFRO-led Initiatives

Many IUFRO activities were successfully conducted throughout 2013, the highlight having been the **Third IUFRO Latin American Congress (IUFROLAT III)**, which was held from 12-15 June in Costa Rica, San José. The year 2014 will again see numerous IUFRO conferences and workshops being convened with the biggest and most important being the highly anticipated 24th IUFRO World Congress.

After more than 40 years, the IUFRO World Congress, which is held every 4 to 5 years in various parts of the world, returns to North America with this year's Congress being convened at the Salt Palace in Salt Lake City, Utah from 5 to 11 October 2014. The title of this year's Congress **Sustaining Forests, Sustaining People: The Role of Research** will have keynote addresses from five global leaders, 19 sub-plenary sessions and about 170 technical sessions focused on seven broad themes.

After a very rigorous selection process under the outstanding leadership of John Parrotta, Chair of the Congress Scientific Committee, more than 2000 poster and oral presentations are expected to be presented and discussed and, participants can expect to advance their understanding of management, sustainable use, conservation, and restoration for healthier forests and a greener planet. Hosted by the United States Forest Service, and with the National Association of University Forest Resources Program (NAUFRP), the Society of American Foresters (SAF) and the Canadian Institute of Foresters (CIF) as key partners, over 4,000 delegates from more than 100 countries are expected. Other highlights are an exciting trade exposition and field trips, which will showcase local research and management successes, unique American culture and spectacular landscapes. Participants can expect an outstanding Congress in an exceptional setting.

One of the main outcomes of the United Nations Conference on Sustainable Development held in Rio de Janeiro in June 2012 (Rio+20) was the agreement to launch a process to develop by the year 2015 a set of so-called Sustainable Development Goals (SDGs). These SDGs will serve as the main policy framework



guiding the post-2015 development agenda. IUFRO will participate actively in this process by providing scientific input both as a member of the International Council for Science (ICSU) and through the CPF. Furthermore, following the success of the first Global Landscapes Forum held in November 2013, plans are underway for a new Global Landscapes Forum in autumn 2014. As previously, IUFRO will once more contribute actively to its program.

At the XXIV World Congress the **new incoming IUFRO Board** for the next five years with a new President at its helm will also be formally announced. This new Board will be entrusted to implement **IUFRO's New Strategy 2015 – 2019** which is currently being finalized. The New Strategy sets out the Union's aspirations for the next five years. Five closely interlinked themes have been identified and emphasis areas under each theme have been highlighted for particular attention. By so doing, it is anticipated that IUFRO will be able to identify emerging research topics while also addressing current and potential issues. At the same time, it will be interesting to examine how the new strategy may influence the organization, structure and work of IUFRO. Effective implementation of the new strategy should lead to better and closer interdisciplinary cooperation and collaboration both within the Union and with other external organizations and institutions.

Over the last four years of this current Board term we have seen some interesting and challenging but also fulfilling times. As we move closer to the celebration of **IUFRO's 125th Anniversary in 2017**, we can look back and celebrate the many achievements that have been made over the years but also look ahead to a future full of challenges and untold promises.

IUFRO Vice-President Su See Lee (Photo by Yusni, FRIM)

Silviculture - Division 1

Coordinator: Björn Hånell, Sweden

Deputy Coordinators:

Isabel Cañellas, Spain
Jens Peter Skovsgaard, Sweden
Kevin L. O'Hara, United States

Division 1 includes the study of forest and ecosystem management; stand establishment and stand treatment (including fertilization); agroforestry; wood biomass for bioenergy; restoration of degraded sites; mountain zone and arid zone silviculture; tropical, boreal and temperate zone silviculture; and silvicultural systems.

Division 1 includes 7 Research Groups and 19 Working Parties that are engaging a total number of 90 Officeholders.

Most of the work in Division 1 during 2013 was done in agroforestry and included international meetings in Argentina, Brazil, and Nepal. Important progress was also made in the fields of beech silviculture, integrated wildlife, forest and landscape management, boreal forests at risk, and the needs of the forestry sector in Portugal. During 2013 Division 1 sponsored 7 meetings, including 2 inter-divisional conferences.

16-17 May, El Calafate, Santa Cruz, Argentina:
II Jornadas Forestales de Patagonia Sur y 2° Congreso Internacional Agroforestal Patagónico
IUFRO 1.04.00, 8.01.02

Silvopastoral systems, mainly in ñire native forests (*Nothofagus antarctica*), with pine plantations (mostly *Pinus ponderosa*) and with Salicaceae species, were main issues in this congress in Santa Cruz, Argentina. Another focus of the meeting was implementation and management of agroforestry systems in the Chilean and Argentinean parts of Patagonia.

8-10 October, Curitiba, Brazil:
1st International Symposium on Afforestation of Pastures in Subtropical Regions
IUFRO 1.04.00

Silvopastoral systems were also addressed at this meeting in Curitiba, Brazil. More than 150 scientists, exhibitors and producers met to exchange information on issues related to climate change and its effects on trees, crops and animals. Other main symposium topics were afforestation in grasslands, species used to survive frost in silvopastoral systems, and prospects of extension and technical assistance to landowners interested in tree planting in pastures.

28-29 November, Kathmandu, Nepal:
Women in Agroforestry
IUFRO 1.04.00

This workshop gathered more than 150 participants. Agroforestry is an age-old practice in Nepal. There is evidence that agroforestry can provide a sound ecological basis for increased crop and animal productivity, more dependable economic returns, and greater biodiversity in the Nepalese context. Women in Nepal are involved immensely in practicing agroforestry but their roles and responsibilities are often not acknowledged.

2-9 June, Lviv, Ukraine:

Primeval Beech Forests: Reference Systems for the Management and Conservation of Biodiversity, Forest Resources and Ecosystem Services
IUFRO 1.01.07

This conference aimed at building a common multidisciplinary scientific platform to share achievements on the structure, dynamics and biodiversity of European beech primeval forests from the perspective of global change and in relation to sustainable forest management and conservation strategies.

5 August, Minneapolis, U.S.A.:
Roundtable: Advances in Joint Management of Grazing Ungulates and Forest Ecosystems
IUFRO 1.01.12

The discussion focused on scientifically based principles and solutions for integrated wildlife, forest and landscape management. These principles and solutions would improve sustainability while maintaining traditional forest uses, and improve management by developing novel approaches and methodologies.

7-10 October, Edmonton, Alberta, Canada:
16th International Boreal Forest Research Association (IBFRA) Conference
IUFRO 1.01.01, 8.01.06

IUFRO is working closely with the International Boreal Forest Research Association (IBFRA www.ibfra.org) that was founded in 1991 to foster pan-boreal research and exchange of research results on changes occurring in this immense forest biome.

5-8 June, Vila Real e Bragança, Portugal:
7º Congresso Florestal Nacional-Sociedade Portuguesa de Ciências Florestais
IUFRO 1.01.10

The major needs of the forestry sector in Portugal were addressed in the 7th Portuguese National Forest Conference "Forests - Knowledge and Innovation". The conference gathered over 300 participants. Some identified needs were assessment studies of essential public policies for the forestry sector; evaluation of forest producer organizations, studies on the competitiveness and the total economic value of forests and the forest sector.



Participants of the 1st International Symposium on Afforestation of Pastures in Subtropical Regions during field trip (Photo provided by Alvaro Sotomayor, INFOR)

Physiology and Genetics - Division 2

Coordinator: Yousry A. El-Kassaby, Canada

Deputy Coordinators:

Santiago C. Gonzalez-Martinez, Spain

Robert D. Guy, Canada

Meng-Zhu Lu, China

Division 2 includes research on the physiology of forest trees as a whole and more specifically on xylem, stem, canopy and roots; on sexual and vegetative reproduction; on breeding and genetic resources of conifers and hardwoods in virtually all regions of the world; on quantitative and biological genetics of trees and tree populations, including molecular and cellular genetics; and finally on seed physiology and technology.

Division 2 has 5 Research Groups and 27 Working Parties with a total number of 92 Officeholders.

The Division's Officers' 'rejuvenation' is still on-going and several new Working Party Coordinators and Deputies were appointed in 2013. The Division would like to take this opportunity to thank the out-going Coordinators and Deputies for their dedication and service.

The Division hosted five meetings during 2013 and activities are underway to host nine meetings during 2014. It is refreshing to note that these meetings included intra-Division and inter-Divisions collaboration, creating opportunities for greater intellectual exchange within and among Divisions.

26 May - 1 June, Asheville, NC, United States:

Tree Biotechnology Conference "Forest Biotechnology: Meeting the Needs of a Changing World"

IUFRO 2.04.06

The conference showcased the changing role of forest biotechnology in addressing the growing need for sustainable, renewable sources of biomass, in the face of climate change. The conference was co-hosted by Matias Kirst (University of Florida) and Jeffrey Dean (University of Georgia), and covered four thematic areas:

- 1) Tree biotechnology, applications, and society,
- 2) Trees and the environment,
- 3) Tree reproduction, growth and development, and
- 4) Genome sequencing, omics and databases.

The conference also hosted a special two-day workshop on "genomic selection" that attracted approximately 80 attendees. This workshop along with multiple oral presentations throughout the conference demonstrated the potential of genomic selection in marker-aided breeding, making it apparent that both quantitative genomics and the "single-gene" molecular approaches can contribute to elucidating the genetic underpinnings of the complex relationships between genotypes and phenotypes. Advances in this area will surely be highlighted at the next IUFRO Tree Biotechnology Meeting, which will be hosted by Cristina Vettori of the Plant Genetics Institute, CNR, Florence, Italy in the summer of 2015.

July 22-25, Whistler, British Columbia, Canada:

Forest Genetics 2013

IUFRO 2.04.01, 2.02.05

This joint meeting between the Canadian Forest Genetics Association (CFG) and Western Forest Genetics Association



*Douglas-fir progeny tests in Oregon, USA
(Photo provided by Keith JS Jayawickrama, Oregon State University)*

(WFGA) plus IUFRO Population, Ecological and Conservation Genetics (WP 2.04.01) and IUFRO Breeding and Genetic Resources of Pacific Northwest Conifers (WP 2.02.05) brought together a variety of research groups, including genomics and molecular genetics researchers. Many presenters outlined the promises of genomic selection for a way to speed up the breeding cycles in conifers. Climate change researchers were also well represented.

During the business meeting of WP 2.02.05, it was emphasized that this Working Party is still relevant and needed to stimulate co-operative type research, especially during this time of climate change research and the need for data collections from a wide range of environments. It was also agreed that the list of Pacific Northwest conifers should include radiata and lodgepole pine and conifers of northern California given the dwindling number of tree breeding programs worldwide.

Further Conferences in 2013

4-7 February, Jacksonville, Florida, USA

Breeding for Value in a Changing World

IUFRO 2.02.20

27-30 May, Suwon, Kyonggi-Do, Republic of Korea

International Symposium on Tree Breeding and Forest Genetics of Asian Tree Species

IUFRO 2.02.23

10-14 August, Truro, Nova Scotia, Canada

Eleventh International Christmas Tree Research and Extension Conference

IUFRO 2.02.09

Forest Operations Engineering and Management - Division 3

Coordinator: Hans R. Heinimann, Switzerland

Deputy Coordinators:

Woodam Chung, United States
Jean-François Gingras, Canada
Hideo Sakai, Japan

Forest operations engineering and management research aims at (1) understanding the fundamental principles that underlie the behavior of forest operations systems and at (2) developing concepts, methods and tools that support the design, control and management of these systems.

Division 3 has 8 Research Groups and 5 Working Parties with a total number of 48 Officeholders.

26-30 May, Brno, Czech Republic

FORTECHENVI 2013 (Forest and Forest Products, Technology and the Environment)

IUFRO 3.03.00, 3.05.00

Mendel University, Brno, and Czech University of Life Sciences, Prague, prepared an international scientific conference aimed at the presentation of current scientific and research results and operational findings with regard to the environmentally friendly application of technology in forestry and the wood-processing industry.

2-5 June, Honne (Lillehammer), Norway

Forest Operations in Mountainous Conditions

IUFRO 3.06.00, 3.03.00

Sustainable interventions in mountainous forest areas represent a key issue and demand a deep understanding of the relationship between products, management practices and site susceptibility. Forest operations in mountainous terrain need to apply production systems which are adapted to specific local conditions and match the existing infrastructure, while minimizing negative externalities.

However, the economic marginality of forest operations in steep terrain, together with their isolated location, make mountain forests particularly vulnerable to management practices with little scientific basis. This Conference aimed to reiterate the need to



use and expand the existing science base in order to contribute to the sustainable utilization of forest resources.

7-10 July, Missoula, Montana, United States

2013 Council on Forest Engineering Annual Meeting

IUFRO 3.00.00

The theme for the 2013 COFE meeting was "Forest Operations for a Changing Landscape". The main topics that were covered included: maintaining a resilient forest industry; forest operations for fire management; impact of changing forestland ownership on forest operations; and preparing tomorrow's forest operations professional.

19-21 August, Quebec City, Canada

15th Symposium for Systems Analysis in Forest Resources (SSAFR)

IUFRO 3.04.00

Forest products value chains, in addition to being competitive and economically efficient, now have to account for several objectives, such as risk management and mitigation, environmental and social considerations as well as multiple uses of the forest. In order to tackle these complex challenges, decision makers need access to state-of-the-art decision support systems. These systems often rely heavily on analytics, simulation and optimization techniques such as those developed by the SSAFR scientific community.

11-13 September, Bintulu, Sarawak, Malaysia

2013 International Symposium on Tropical Forest Ecosystem Sciences

IUFRO 3.07.00, 3.03.00

This symposium aimed to help to identify and address the current challenges faced by the tropical rainforest ecosystem. Three keynote papers and 80 papers presented both orally and as posters covered all aspects of forest operation, engineering and management, forest conservation and rehabilitation, silviculture and biotechnology, agroforestry, biology, hydrology and climate change. The information presented should help to open up new avenues for research and provide growers with new ideas.

8-12 September, Fukuoka, Japan

Future Directions of Small-Scale and Community-Based Forestry

IUFRO 3.08.00, 6.08.01

This was the first Joint Conference of IUFRO Research Groups 3.08.00 and 6.08.00. Participants were made aware of the reality that small-scale forest owners in many developed countries are facing due to aging and depopulation of their villages, a decreasing forest income and more dependency on other income sources, among other things. At the same time, the participants also confirmed that the issues of small-scale forestry and community-based forestry could be discussed on a new common ground by adding a gender perspective, which would lead them to new directions.

Interested onlookers watch the brand new Zöggeler excavator-based yarder/processor in action near Vingrom, Norway.

*(Photo by Lars Sandved Dalen/
Norwegian Forest and Landscape Institute)*

Forest Assessment, Modelling and Management - Division 4

Coordinator: Margarida Tomé, Portugal

Deputy Coordinators:

Ronald E. McRoberts, United States
Arne Pommerening, Switzerland
Jerry Vanclay, Australia

This Division 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.

Division 4 has 5 Research Groups and 24 Working Parties with a total number of 90 Officeholders.

27 February -1 March, Chandigarh, India

Risk Analysis of Forest Invasive Alien Species

IUFRO 4.04.07, 8.02.04

IUFRO Working Party 4.04.07 (Risk Analysis) held its inaugural meeting in collaboration with WP 8.02.04 (Ecology of Alien Invasives) at Panjab University. The meeting was attended by 60 researchers from five countries. Thirty oral and 10 poster presentations were made under the four themes of:

- (1) Surveys/Impacts/Biodiversity;
- (2) Risk Assessment Methodologies;
- (3) Physiology/Genetics; and
- (4) Economics/Policy.

Over twenty invasive plant species, seven insect species, one vertebrate species and one mycoplasma like organism were discussed in terms of their range, impact and management.

24-26 April, Umeå, Sweden

COST Action FP0804 Decision Support Systems for Sustainable Forest Management: FORSYS 2013 Conference

IUFRO 4.00.00, 4.04.04

The 2013 FORSYS Conference brought together the experience and the expertise world-wide for developing innovative decision support approaches to address sustainable forest management and its concerns with social, economic and environmental objectives. It reported the state-of-the art on the development and use of decision support systems and provided insights to case studies that enhance forest management planning and support forest policy analysis.

8 May, Viterbo, Italy

Lidar Applications in Forest Inventory and Related Statistical Issues

IUFRO 4.02.04, 4.02.06

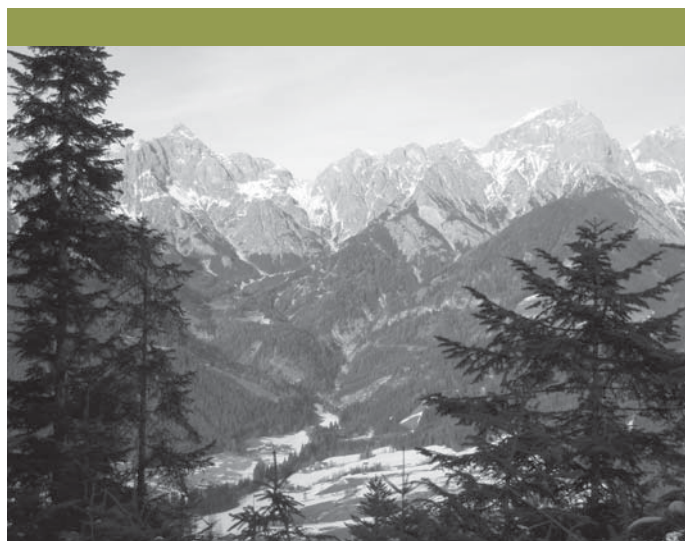
The increasing availability of space-borne or air-borne lidar data offers the potential to exploit this three-dimensional information, alone or in combination with remotely sensed multispectral images, to support forest inventories for the estimation of forest attributes at various scales. From the results presented and the discussion carried out during the meeting, air-borne lidar-based information widely proves to be well correlated to forest attributes and can be used to support the estimation of various quantitative variables, such as biomass or growing stock volume, and for discriminating forest in different classes on the basis of structure and forest management (e.g. coppice vs. high stands). Various analysis and estimation techniques can be used along with the support of air-borne lidar data, obtaining good results in various conditions, from Alpine to Mediterranean environments.

1-5 September, Birmensdorf, Switzerland

ClimTree 2013. International Conference on Climate Change and Tree Responses in Central European Forests

IUFRO 4.01.04

The conference was initiated because there are a wide variety of model projections for almost all regions of Europe and at the same time there is a general lack of model validations. Many recent studies clearly point to the fact that tree species can recover from extreme events, be it in terms of resistance or in terms of resilience. By bringing together scientists of various fields, the conference aimed at bridging the diverse community in order to improve our understanding of effects of extreme climatic events in the frame of climate change and to assess its importance in relation to management and natural disturbance.



Alpine landscape (Photo by Judith Stöger-Goiser, IUFRO)

4-6 December, Lisbon, Portugal

2013 ForestDSS - Decision Support System Workshop and ForestDSS Community of Practice

IUFRO 4.04.04, 4.03.03

This event reported the state-of-the art on the development and use of decision support systems (DSS) to enhance forest management planning and forest policy analysis. It targeted further the transfer of knowledge and technology to DSS end users. Through seminars the participants were exposed to the interdisciplinary nature of developing DSS. Computer labs were instrumental for demonstrating the use of DSS.

Further Conferences in 2013

15-17 May, Prague, Czech Republic

International Symposium "Socio-economic analyses of sustainable forest management"

IUFRO 4.05.00

16-21 May, Estoril, Portugal and other locations

3rd International Congress on Planted Forests "Planted forests on the globe, renewable resources for the future"

IUFRO 4.00.00, 8.00.00

21-22 May, Lisbon, Portugal

Seminar on Biodiversity & Ecosystem Services from Planted Forests, at the Third International Congress on Planted Forests

IUFRO 4.00.00, 7.00.00, 8.00.00, 9.00.00, Task Force Biodiversity and Ecosystem Services

28-29 August, Uppsala, Sweden
Nordic Workshop: The forest sector in the biobased economy – perspectives from policy and economic sciences
IUFRO 4.00.00, 9.00.00

7-9 October, New Orleans, Louisiana, United States
2nd IUFRO Conference on Complex Forest Ecosystems: from Tree to Landscape
IUFRO 4.03.00

7-9 October, Dobięgniew, Pomerania Region, Poland
Forest Biomass Conference 2013
IUFRO 4.02.05

Forest Products - Division 5

Coordinator: Andrew Wong, Malaysia

Deputy Coordinators:
Jamie Barbour, United States
Dave Cown, New Zealand
Pekka Saranpää, Finland

This Division concentrates on forest products, their processing, finishing, logistics and recycling and includes the use of plantation wood and non-wood forest products.

Division 5 has 11 Research Groups and 23 Working Parties with a total number of 97 Officeholders.

21 March, Dar Es Salaam, Tanzania
World Wood Day (WWD)
IUFRO 5.00.00, 5.10.01

Andrew Wong, Division 5 Coordinator, and Howard Rosen, Wood Culture 5.10.01 Working Party Coordinator, attended the first World Wood Day (WWD) conceived by the International Wood Culture Society (IWCS), on March 21, 2013. This day was officially recognized as the first International Day of Forests (IDF) by the United Nations General Assembly and WWD was celebrated on the same day to raise the awareness on how wood plays a key role in the sustainable future of our forests and society, adding meaning to the IWCS mantra that "Wood is Good."

25-30 March, Bangkok, Thailand
World Teak Conference
IUFRO 5.06.02

The World Teak Conference 2013 "Sharing our Planet: Teak Model Development towards the Improvement of Mankind" was jointly hosted by TEAKNET, The Plant Genetic Conservation project under the Initiative of Her Royal Highness Princess Maha Chakri of Thailand (RSPG), FAO, ITTO and the IUFRO Teakwood Working Party 5.06.02. The conference was attended by over 200 participants, mostly teak growers, timber traders, researchers, and regional and international organizations from more than 37 countries from all continents.

28 March, Morioka, Japan
International Symposium MORIOKA 2013: Global Forest Products Marketing and Forest Certification in a Green Economy IUFRO 5.10.00

A number of studies have examined forest certification since the mid-1990s and related articles published in scholarly journals amount to more than 200. At this symposium, speakers provided their expert knowledge and key research findings of forest certification and certified wood product markets. Forest certification has been challenged especially in the tropics, and few forests have been certified in REDD+ countries. Although forest certification has typically few market benefits to suppliers, several authors reported a price premium for certified wood coming from tropical forests. Toward a green economy, certification research



Andrew Wong (left) and Howard Rosen at World Wood Day, Tanzania 2013 (Photo provided by Howard Rosen)

should facilitate innovative marketing of certified tropical wood in developed countries.

24-27 September, Madison, Wisconsin, United States
18th International Nondestructive Testing and Evaluation of Wood Symposium
IUFRO 5.02.00, 5.02.01

This symposium, which was hosted by the USDA Forest Service's Forest Products Laboratory (FPL), was a forum for those involved in nondestructive testing and evaluation (NDT/NDE) of wood and brought together many NDT/NDE users, suppliers, international researchers, representatives from various government agencies, and other groups to share research results, products, and technology for evaluating a wide range of wood products, including standing trees, logs, lumber, and wood structures. Networking among participants encouraged international collaborative efforts and fostered the implementation of NDT/NDE technologies.

9-11 October, Toronto, Ontario, Canada
International Conference on Wood Adhesives
IUFRO 5.00.00, 5.04.00

At this conference, several talks discussed how the adhesives cured on a sheet to make an easy specimen for testing can, in some cases, have properties very different from the same adhesive cured between two pieces of wood. The meeting also confirmed the strong interest in developing bio-based alternatives to conventional products. Multiple talks were driven by a desire to replace fossil fuel based materials with renewables. Plenary session speakers discussed the outlook for wood adhesive needs and requirements (consumer and regulatory) in North America and Europe. The keynote emphasized the power of transformational thinking to create enormous value to a company and its customers.

25-27 October, Changsha, Hunan Province, China
International Wood Culture Symposium on Taxodiaceae
IUFRO 5.10.01

Multidisciplinary discussions on Taxodiaceae raised issues about the current taxonomic system, historical usage, indigenous beliefs, natural forests and tree plantations, biodiversity conservation, markets and industrial development, and the future sustainability of the species in this family. A student youth woodworking competition was also held.

Further Conferences in 2013

4-7 August, Tsukuba, Japan
21st International Wood Machining Seminar (IWMS-21)
IUFRO 5.04.08

20-21 August, Beijing, China
Identification of Timber Species and Origins
IUFRO 5.00.00

17-21 October, Nanjing, China
8th Pacific Regional Wood Anatomy Conference (PRWAC 2013) IUFRO 5.01.00

29 September-3 October, Kuching, Borneo, Malaysia
4th World Conference on Science and Technology Education (WorldSTE2013): Live Science, Love Learning, Create Change IUFRO 5.00.00

1-4 October, Nancy, France
7th Workshop: Measurement Methods and Modelling Approaches for Predicting Desirable Future Wood Properties
IUFRO 5.01.04

7-9 November, The "Transilvania" University, Brasov, Romania
9th International Conference "Wood Science and Engineering in the Third Millennium" - ICWSE 2013
IUFRO 5.00.00, 5.04.00

14-16 November, Yundola, Bulgaria
6th International Scientific and Technical Conference on Innovations in Forest Industry and Engineering Design
IUFRO 5.00.00, 5.04.00

15 November, Nanning City, Guangxi, China
4th China-ASEAN International Wood Culture Forum
IUFRO 5.00.00

Social Aspects of Forests and Forestry - Division 6

Coordinator:

Tuija Sievänen, Finland

Deputy Coordinators:

Dorothy H. Anderson, United States

Taiichi Ito, Japan

Cecil C. Konijnendijk van den Bosch, Denmark

There is a growing trend of research topics focusing on the social aspects of forestry, which became quite apparent in the conferences organized in 2013. The most visible topics refer to urban forests, protected areas and gender issues related to forests.

Division 6 has 10 Research Groups and 2 Working Parties with a total number of 35 Officeholders.

Sustainability and management of forests for recreation and tourism is an on-going topic, which is now in many cases related also to climate change issues. Topics of social sustainability of forestry are often researched and discussed in connection with community forestry and community wellbeing, and frequently these are issues of developing countries. Another focus is now also on monitoring sustainable forest management and on the need of good social indicators. In Europe, for example, a need to revise indicators which monitor the status of European forest management and the social aspects of forest use has been identified.

21-26 April, Foz do Iguaçu, Brazil
Protected Areas and Place Making Conference (PAPM 2013) IUFRO 6.04.00

This conference organized by IUFRO 6.04.00 'Nature conservation and protected areas' with contributions from 6.01.00, 6.02.00, 6.03.00 drew 105 participants including researchers from 13 countries. Speeches with a focus on Brazil addressed social aspects of conservation and aimed to stimulate discussions on how to improve the management of the up to 1.5 million square kilometers of protected areas in Brazil.

8-11 September, Fukuoka, Japan

Future Directions of Small-scale and Community-based Forestry

IUFRO 6.08.00 and 3.08.00

In addition to analyzing the roles of small-scale and community-based forestry for rural development, this conference addressed gender specific issues such as women's participation in community-based forestry, and the activity of women's organizations towards sustainable forest management. In Europe and the U.S., for example, the ratio of woman forest owners was found to be growing recently and therefore studies on the difference of attitudes toward forests between genders and the roles of female forest owner groups are getting more important. It was stressed that policies and measures were centered on timber production, while women were also interested in other forest functions. In developing countries women's participation is indispensable for community-based forestry and women are highly interested in non-timber forest products.



Participants of PAPM 2013 (Photo by Yukie Kabashima)

17 November, Warsaw, Poland
Linking gendered knowledge with gender-responsive action across the landscape: What works?

IUFRO 6.08.01

At the Global Landscapes Forum, November 17-18, Warsaw, Poland, a session on gender was organized by IUFRO 6.08.00, World Farmers' Organization (WFO); Center for International Forestry Research (CIFOR); Food, Agriculture and Natural Resources Policy Analysis Network (FANRPAN). The panelists explored constraints from the researcher, farmer, policy maker and NGO practitioner perspectives and discussed how to more effectively link and embed research and local knowledge with policy and practice across landscapes that comprise different resource systems (such as crop fields, pastures, forests, fisheries).

Keynote speaker Seema Arora-Jonsson, Coordinator of IUFRO 6.08.01 'Gender research in forestry' had already organized a Workshop on 'Gender and the politics of environments' earlier in the year at the Swedish University of Agricultural Sciences, Uppsala. The workshop convened scholars to explore the complex linkages and intersections of gender with policy, politics, environmental exploitation and sustainable resource use globally.

New Project

The TEMPUS SUFAREL project entitled "Qualification framework for sustainable forestry and lifelong learning" (October 2011 – September 2014) is aimed at the development of a qualifications framework for the forestry sector in the Russian Federation and the integration of the Russian three-cycle education (bachelor, master and post graduate studies) to the ones in European Higher Education. The TEMPUS SUFAREL project team visited IUFRO Headquarters in Vienna, Austria and had a meeting with Michael Kleine, IUFRO Deputy Executive Director.

Completed Project

The network project on 'Social Indicators in Forestry' - further development in North European context (SOSIN), 2012-13, identified a need for better indicators and development of systematic and long term monitoring of sustainability in recreational use of forests and protected areas among Northern European countries, and across Europe as a whole.



Forest trail in Estonia (Photo by Gerda Wolfrum, IUFRO)

Other Activities

Many Division 6 members were active in other scientific organizations integrating IUFRO's work with other sectors and more focused fields of social aspects of research. Research Group 6.03.00 members, for example, served on the Steering Committee for the International Symposium on Society and Resource Management 2015 and on the steering group of the MMV 2014 conference in Estonia – Monitoring and Management of Visitors in Recreational and Protected Areas.

Further Conferences in 2013

18-20 April, Toronto, Canada

Urban Forests & Political Ecologies, Celebrating Transdisciplinarity

IUFRO 6.07.00

7-11 May, Milan, Italy

15th European Forum on Urban Forestry, 'The Walking Urban Forest'

IUFRO 6.07.00

1-3 November, Istanbul, Turkey

SILVA Network Annual Conference: From teaching to learning – when will we take it seriously in forest sciences education?

IUFRO 6.09.00, Task Force on Education in Forest Science

Forest Health - Division 7

Coordinator: Eckehard Brockerhoff, New Zealand

Deputy Coordinators:

Andrzej Bytnerowicz, United States

Andrew Liebhold, United States

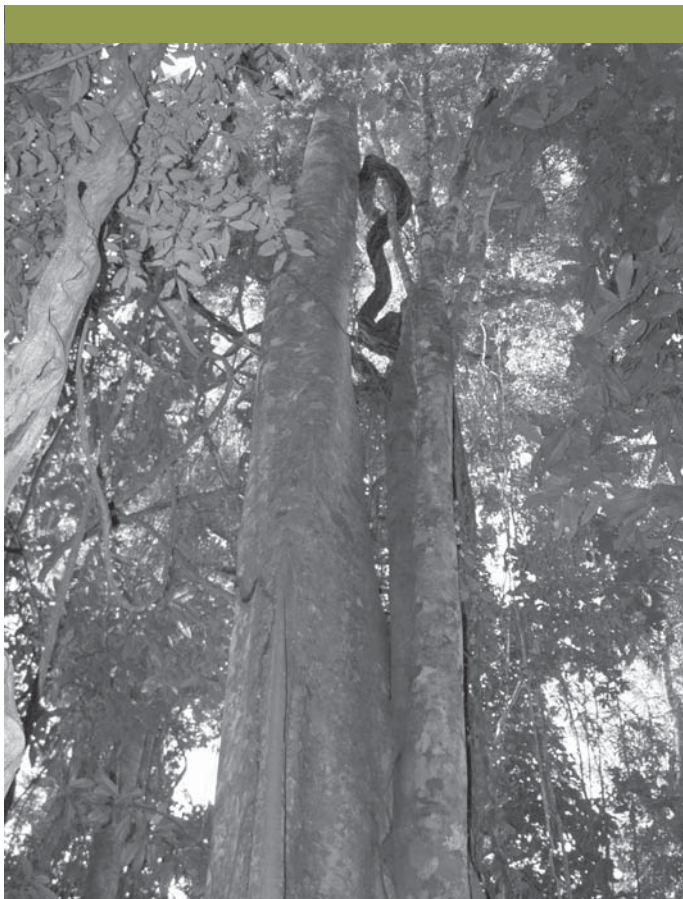
Jolanda Roux, South Africa

2013 was a very active year for Division 7 (Forest Health). A total of eleven conferences and workshops of Division 7 Working Parties and Research Groups were held that addressed all the main topics covered by Division 7, including events in Latin America, North America, Asia, Australia and Europe.

Division 7 has 3 Research Groups and 30 Working Parties with a total number of 95 Officeholders.

Impacts of global change on tree health was a prominent topic of several meetings, including issues such as the increasing threat from novel encounters between tree species and pathogens and insects with which they have not co-evolved. These novel relationships have been facilitated by the human-assisted movement of pathogens and insects and, in part, by the planting of tree species outside their natural range.

This has also led to an increasing number of tree health problems associated with ambrosia beetles, their fungal associates, and new tree host relationships. There are several examples of changes in insect-fungal associations where formerly benign symbioses between ambrosia beetles and fungi have transformed into highly pathogenic systems with significant impacts on forest ecosystems.



*In the Amazon forest of Brazil
(Photo by Andrzej Bytnerowicz, US Forest Service)*

Considerable progress has been made regarding invasions by non-native bark and wood boring insects. Although this continues to be a problem experienced in most corners of the world, the world-wide implementation of phytosanitary measures designed to reduce the international movement of such pests is showing some effects. Solid wood packing material is considered the primary invasion pathway for bark and wood boring insects, and an international standard for phytosanitary treatments for wood packaging materials appears to have reduced this threat somewhat.

In the meantime, efforts are underway to manage and halt the spread of species that have already become established outside their native range. This applies also to the pine wood nematode, a devastating invasive pest that causes pine wilt disease leading to widespread mortality of pines in parts of NE Asia and Europe. The management and prevention of pine wilt disease is the subject of a working party that facilitates the exchange of research findings among colleagues from Europe, Asia and other parts of the world.

International movement of live plants is another major pathway for the accidental introduction of damaging forest insects and pathogens. The globalization of the nursery industry and associated increases in international trade in live plants pose major risks. A considerable research effort with involvement of numerous contributors to Division 7 activities is now underway, and it is hoped that this will lead to a reduction in international movements of pathogens and insect pests via this pathway.

12-15 June, San José, Costa Rica
Forest Health, session on 'Threats to Forest Health' during IUFROLAT 2013
IUFRO 7.00.00

Climate change potentially impacts forest insect populations both directly and indirectly via effects on host trees and

natural enemies. This is an area on which considerable research is currently focused. Although there are several instances where climate change has been implicated in forest insect range shifts and shifts in outbreak dynamics, there remains considerable uncertainty about how these effects will play out. The interactions of climate change, insects and pathogens span across all three research groups in Division 7 (and other Divisions), which provides excellent opportunities for inter-disciplinary collaboration. This was clearly apparent during a cross-divisional session at the Third IUFRO Latin American Congress held in Costa Rica with contributions from IUFRO RGs 7.01, 7.02 and 7.03.

15-18 May, Bordeaux, France
Conference and Workshop on Vulnerability and Risk Management in Planted Forests
IUFRO 7.00.00

Planted and plantation forests were the primary focus of an International Congress on Planted Forest which included a workshop on 'Vulnerability and Risk Management in Planted Forests' in Bordeaux, France. This addressed all major biotic and abiotic risks that can affect planted forests including fire, wind, drought, climate change, pests and diseases and invasive species. This event was co-sponsored by IUFRO Divisions 7 and 8, FAO, European Forest Institute, Region Aquitaine and the local forest owners association CRPF.

1-6 September, Ilheus, Brazil
Vegetation Response to Climate Change and Air Pollution - Unifying Research and Evidence from Northern and Southern Hemisphere
IUFRO 7.01.00

Interactions between climate change and forest health and exchange of information among participants from the southern and northern hemispheres were the main themes of the first conference that Research Group 7.01 held in South America. This was the 26th biennial convention of RG 7.01. Among the case studies explored in more detail were the forest and woodland ecosystems in Brazil including the Cerrado and the Atlantic and Amazon rain forests.

At a global scale, ozone is the air pollutant potentially most toxic to vegetation, which can restrict the capacity of forests for storing carbon. The situation is exacerbated by regionally enhanced nitrogen and heavy metal deposition caused especially by agricultural practices, combustion of fossil fuels and open-pit. There is a major research gap in understanding air pollution effects, as part of climate change, on natural and managed forest and woodland ecosystems.

One of the main conclusions from the conference was a need for a comprehensive understanding of climate change and air pollution effects on forest ecosystem functioning globally. To facilitate this, a network of well-instrumented "Supersites in Forest Research" has been proposed, integrating empirical research, monitoring and process-based, large-scale modeling.

Newsletters
Research Group 7.02 (Pathology) produced two newsletters in 2013, Research Group 7.03 (Entomology) produced one newsletter, and Research Group 7.01 provided two communications. These can be found on the IUFRO website.

Listservers
The 3 listservers of the Division 7 Research Groups (ForClimAir, ForPath, and ForEnt) continue to enjoy much support from the community. Collectively there are about 1200 subscribers, across the 3 listservers.

Further Meetings in 2013

4-8 March, Pucón, Chile

Biocontrol of forest insects, held as a session during the “4th International Symposium on Biological Control of Arthropods” IUFRO 7.03.13

21-22 May, Estoril, Portugal

Workshop on ‘Biodiversity & Ecosystem Services from Planted Forests’
IUFRO 7.00.00

20-25 May, Brno and Cerna Hora, Czech Republic

Meeting of Working Party 7.02.02 (Foliage, shoot and stem diseases)

29 May, Berlin, Germany

Meeting of Working Party 7.02.04 (Phytoplasma and virus diseases of forest trees) held in conjunction with the 5th Int’l Symposium on Plant Protection and Plant Health in Europe

4-8 August, Queensland, Australia

6th International Symposium on the Biology of Gall Inducing Arthropods
IUFRO 7.03.02

16-20 September, Banff, Alberta, Canada

Altered Disturbance Regimes in a Warming Environment
IUFRO 7.03.05 and 7.03.07

15-18 October, Braunschweig, Germany

Joint conference of Working Party 7.02.10 Pine Wilt Disease and FP 7 EU Project REPHRAME

28-29 October 2013, Qingdao, China

Alien Invasive Species and International Trade
IUFRO 7.03.12

4-5 November, Rotorua, New Zealand

Participation in the **‘Workshop on Tools for Ecological and Economic Impact Assessment of Invasive Alien Species in Forest Ecosystems’** during the 25th Session of the FAO Asia-Pacific Forestry Commission
IUFRO 7.00.00

Forest Environment - Division 8

Coordinator: Jean-Michel Carnus, France

Deputy Coordinators:

Robert Jandl, Austria

Alex Mosseler, Canada

John Parrotta, United States

Division 8 concerns the study of forest ecosystems and landscapes, forest biodiversity, natural hazards and risk management.

Currently, Division 8 includes 3 Research Groups and 21 Working Parties with a total number of 57 Officeholders.

In 2013, Division 8 was involved in 9 main meetings that were held on 4 continents, including 2 inter-divisional conferences in Canada and India, and an international congress on planted forests in Portugal. Major research topics that were addressed in 2013 in relation with the IUFRO strategy concerned:

- **the sustainability of planted forests and their contribution to future forest resources; and**
- **the interactions between climate change, forest soils and forest management.**

15-21 May, Bordeaux (France), Dublin (Ireland), Porto and Estoril (Portugal).

3rd International Congress on Planted Forests “Planted forests on the globe: renewable resources for the future”

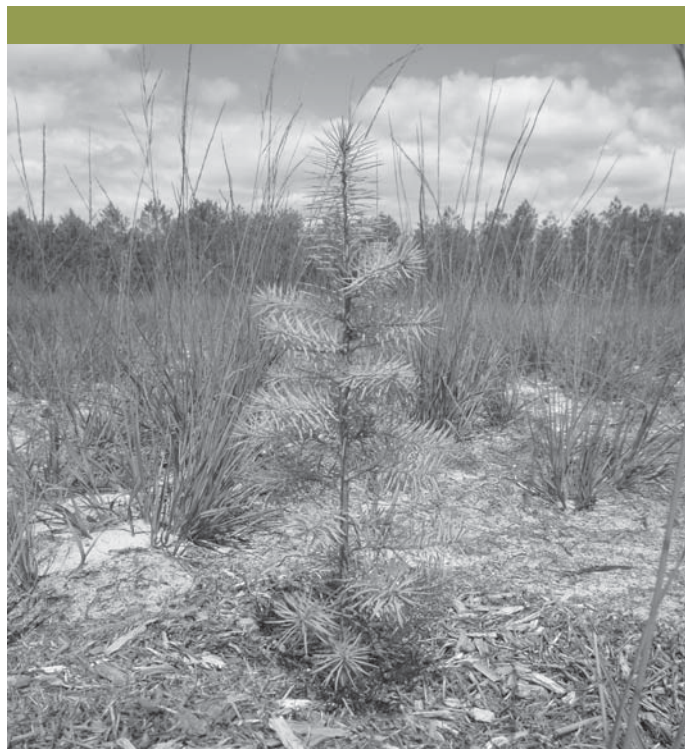
IUFRO 8.00.00, 4.00.00, 7.00.00, 9.00.00

Planted forests are vital but vulnerable resources that can contribute in a sustainable fashion to some of humanity’s most pressing needs – poverty alleviation, food security, renewable energy, mitigation of and adaptation to climate change, biodiversity conservation and forest restoration – as well as the preservation of natural forests.

This was one of the major conclusions of the 3rd International Congress on Planted Forests held by FAO and the European

Forest Institute from 15 to 21 May 2013 in Atlantic Europe. It comprised a plenary session of international experts in Portugal, preceded by three parallel scientific workshops sponsored by several IUFRO Divisions (4, 7, 8 and 9) on Vulnerability and Risk Management (France); Ecosystem Services (Ireland); Governance, Economics, Trade and Markets (Portugal); followed by a workshop of the IUFRO Task Force on Biodiversity & Ecosystem Services.

Those combined events investigated the contribution of planted forests to sustainable development in the context of global changes and the future role of planted forests in environmental protection and REDD+, especially in developing countries.



*Maritime pine in its early stages of plantation
(Photo by Stephanie Hayes, EFIATLANTIC)*

17-20 September, Shenyang, China

International Symposium on Forest Soils “Linking ecosystem processes and management to forest biodiversity and functions”

IUFRO 8.01.03, 8.00.00

During this symposium jointly organized with the International Union of Soil Sciences, the international scientific community addressed some of the key research questions on the effects of local management, disturbance and climate change on forest soils in relation with ecosystem productivity, biodiversity and ecological functions.

The symposium highlighted the innovative techniques used to monitor and simulate or model the effects of local management and climate change on soil processes, advances and novel approaches in research technologies, and application and monitoring of these developments on local, national and global levels.

Participants underlined the great importance of promoting the development of long term ecosystem experiments and effective research networks and strategies for linking soils and ecosystem processes and management to forest biodiversity and ecological functions, particularly in the context of climate change adaptation and mitigation at both local and global scales.

Further Meetings in 2013

27 February-1 March, Punjab University, Chandigarh, India

Risk Analysis of Forest Invasive Alien Species

IUFRO 8.02.04, 4.04.07

5 April, Innsbruck, Austria

UAVs (Unmanned Aerial Vehicles) for Civil Tasks – Applications for Natural Hazards and Forestry Issues

IUFRO 8.03.00

16-18 May, El Calafate, Santa Cruz, Argentina

II Southern Patagonia Conference on Forestry and II International Patagonian Agroforestry Conference

IUFRO 8.01.02, 1.04.00

21-22 May, Estoril, Portugal

Seminar on “Biodiversity & Ecosystem Services from Planted Forests”

IUFRO 8.00.00, 4.00.00, 7.00.00

15-16 August, La Plata, Buenos Aires, Argentina

Regional Nothofagus Workshop: Silviculture, Management and Conservation

IUFRO 8.01.02

18-20 September, Catania, Italy

RegioResources (RR) 21-2013 Conference

IUFRO 8.01.02

7-10 October 2013, Edmonton, Alberta, Canada

16th Conference of the International Boreal Forest Research Association (IBFRA) “Boreal forests at risk”

IUFRO 8.01.06, 1.01.01

Other Meetings

23-25 September, Dehradun, India

Asia Pacific Workshop on Forest Hydrology

13-15 December, Hong Kong, China

Adopting REDD+ for Conservation, Sustainable Community Livelihood and Climate Change Mitigation - Global Forest Experts Panel (GFEP), contribution by IUFRO 8.00.00



*Excursion to Mt. Aetna during the RegioResources conference
(Photo by Christine Fürst)*

Forest Policy and Economics - Division 9

Coordinator: Daniela Kleinschmit, Sweden

Deputy Coordinators:

Margaret A. Shannon, Croatia

Konstantin von Teuffel, Germany

Human societies affect and are affected by forests. Different individual, groups and organization around the globe have diverse needs and expectations concerning forests. Social sciences as conducted in Division 9 support to understand these relationships and thus build the basis for sustainable forest management and land use.

Division 9 has 7 Research Groups and 22 Working Parties with a total number of 86 Officeholders.

12-15 June, San José, Costa Rica

IUFROLAT III

In 2013 special emphasis of Division 9 activities was placed on the needs and values of societies in the Latin American and Caribbean region. The opportunity of the IUFRO regional congress IUFROLAT was seized to address social scientific issues in different sessions. The effects of international forest governance and its influence on the convergence of forest policy in the region, for example, or the role of traditional forest-related knowledge and its contribution to sustainable forest management were discussed. The Congress has strengthened the network of Division 9 in Latin America and the Caribbean region. One direct result is a new Working Party on “Forest and Natural Resource Policy and Governance in Latin America and the Caribbean”.

23-25 September, Remscheid, Germany

New Challenges for Community Forestry: Sharing Scientific Knowledge in a South – North Perspective

IUFRO 9.05.06

Community forestry was addressed as a way to improve the livelihoods of local people and the conditions of natural resources

on which they depend for their living. The involvement of local people in decision-making processes concerning natural resources and its effects has been discussed during the conference.



Community Forestry Conference in Remscheid, Germany
(Photo by Manjola Salla)

Further meetings in 2013

12-15 May, Linan, Hangzhou, Zhejiang Province, China
Institutions and Markets for Ecosystem Services in Green Economy
IUFRO 9.04.04

14-17 May, Tirana, Albania
15th International Symposium on Legal Aspects of European Forest Sustainable Development
IUFRO 9.06.00

4-7 June, Lima, Peru
IX Congreso Latinoamericano de Derecho Forestal-Ambiental
IUFRO 9.06.01

19-21 June, Freiburg, Germany
Interdisciplinary Workshop: Perspectives on Forest Conservation – tackling the frontier between policy and conservation science
IUFRO 9.05.07

28-29 August, Uppsala, Sweden
Nordic Workshop: The forest sector in the biobased economy – perspectives from policy and economics sciences
IUFRO 9.00.00, 4.00.00

15-18 October, Lillehammer, Norway
Forest Sector Modelling: New approaches and findings for improved resource decisions in a globalized world
IUFRO 9.07.00

13-15 November, St. Petersburg, Russia
International Conference on Forest Certification and protection from illegal logging – International and Russia perspectives
IUFRO 9.00.00

28-29 November, Sarajevo, Bosnia- Herzegovina
International Symposium on “Cross-sectoral policy impacts on forests and environment“
IUFRO 9.05.03

10-11 December, Antananarivo, Madagascar
International Symposium on “Biodiversity and People in the Context of Climate Change“
IUFRO 9.05.01

IUFRO Task Forces

By Su See Lee, Vice President, Task Forces, Special Programmes, Projects and IUFRO-led Initiatives

IUFRO currently has nine Task Forces, namely Biodiversity and Ecosystem Services, Education in Forest Sciences, Forest Bioenergy, Forests and Climate Change, Forests and Human Health, Forest and Water Interactions, Forests for People, International Forest Governance, and Resources for the Future.

In 2013 some Task Forces saw changes in their leadership. Bryan Finegan, CATIE, Task Force Coordinator for Biodiversity and Ecosystem Services decided to step down and became a Deputy Coordinator of the Task Force while Eckehard Brockerhoff, Scion, New Zealand, took over the helm as Coordinator. Gert-Jan Nabuurs, Alterra, Wageningen University, The Netherlands joined the Forest and Climate Change Task Force as its Deputy and Philip Dobie, ICRAF, stepped in to assist Tony Simons, ICRAF, in coordinating the activities of the Task Force on Forest and Water Interactions. Matti Rousi, Metla Vantaa, Finland, stepped down as the Deputy Coordinator of the Task Force on Forests and Human Health and was replaced by Tytti Sarjala, also from Metla, Finland.

Numerous conferences were organized by several Task Forces, e.g the 2nd Forests for People Conference in Traverse City, Michigan, United States, 19-23 May 2013, or the discussion forum

co-organized by the Task Force on International Forest Governance at the Global Landscapes Forum in December 2013 in Warsaw, Poland. Some also organized sessions during the Third IUFRO Latin American Congress. Various publications including fact sheets, seminar proceedings, reports and newsletters were produced.

As part of IUFRO's efforts to highlight the outputs and outcomes of the Task Forces, a series of “Research Letters“ will be published for distribution during the upcoming IUFRO World Congress.



Photo by
Michael Kleine,
IUFRO

Task Force on Biodiversity and Ecosystem Services

Coordinator:

Eckehard Brockerhoff,
New Zealand

Deputy Coordinators:

Bryan Finegan, Costa Rica
Saw Leng Guan, Malaysia

The Biodiversity and Ecosystem Services Task Force addresses one of the special emphasis areas of the IUFRO Strategy 2010-2014, covering impacts and effects of biodiversity loss, strategies for biodiversity conservation, adaptive forest management for protected areas, and ecosystem services related to forest biodiversity. These topics align well with several major international processes such as the Convention on Biological Diversity (CBD) and the Inter-governmental Platform on Biodiversity and Ecosystem Services (IPBES), and with cutting-edge science important to relationships between forests and people.

The Task Force team includes representatives from several IUFRO Divisions and other organizations. At the IUFRO Board Meeting in Costa Rica in June 2013, the Board approved a change in the Task Force leadership, with Eckehard Brockerhoff becoming the new Coordinator and Bryan Finegan and Saw Leng Guan as Deputy Coordinators.

21-22 May, Estoril, Portugal

Workshop on 'Biodiversity & Ecosystem Services from Planted Forests' (including presentations on forest health and invasive species); side event of the IUFRO Task Force on Biodiversity and Ecosystem Services in conjunction with the International Congress on Planted Forest

The main purpose of the workshop was to review the role of biodiversity in the provision of ecosystem services in the context of planted / plantation forests. It is increasingly appreciated that forest biodiversity plays an important role in the provision of ecosystem services.

Planted forests represent a growing proportion of the world's forests, and it is likely that planted forests will be expected to contribute to the provision of vital ecosystem services.

The workshop focus was across the entire range of ecosystem services (i.e. supporting, provisioning, regulating, and cultural services) exploring relationships between biodiversity and productivity of planted forests, climate change adaptability; pest and disease impacts, resistance to biological invasions, and others.

Meetings

12-15 June, San José, Costa Rica

Session on Forest Biodiversity and Ecosystem Services
at the Third IUFROLAT Latin American Congress

30 September - 4 October, Turrialba, Costa Rica

Session on Forest Biodiversity and Ecosystem Services
at the Seventh Wallace Conference, CATIE



*Diverse forest in the Abel Tasman Park, New Zealand
(Photo by Eckehard Brockerhoff)*

A subplenary session and regular sessions have been proposed (and accepted) for the IUFRO Congress in Salt Lake City, October 2014. Session proposals have been submitted by the Task Force and numerous proposals on the theme Forest Biodiversity and Ecosystem Services have been submitted by others, several involving the Task Force as coorganizer.

Task Force on Education in Forest Science

Coordinator:

Piotr Paschalis-Jakubowicz, Poland

Deputy Coordinators:

Siegfried Lewark, Germany

The basic scope of research of the Task Force in 2013 comprised:

Summarizing research results of the assessment regarding the use of forest knowledge and requirements addressed to graduates of forest-related university studies in Poland.

Finalizing a model solution system of lifelong learning.

Developing standard evaluation framework forestry curricula at university level.

Testing results generated from educational models (IUFRO ESF Learning Initiative).

Meetings

28 February – 2 March, Artvin Coruh University (ACU) Turkey
TF Core Group Team Coordination Meeting: organization of IUFRO Learning Initiative 2

28 March, Warsaw, Poland
Working meeting of the IUFRO TF Core Group

18 April, Warsaw, Poland
Working meeting with representatives of the Coordinating Team of the Jagiellonian University

12-15 June, San José, Costa Rica
Session at IUFROLAT International Conference

3 August, Warsaw Agricultural University, Poland
Working meeting of the Coordinating Team

30 November – 2 December, Istanbul, Turkey
International scientific conference co-organized by SILVA Network and the IUFRO Task Force

9-13 December, Rovaniemi, Finland
Event during the European Forest Week entitled “Future of Education – Future of the sector?” jointly organized with IFSA

Task Force on Forest and Water Interactions

Coordinator:

Tony Simons, Kenya

Deputy Coordinators:

Shirong Liu, China

The quality and access to clean water throughout the globe is threatened by overuse, inefficiency and pollution. Here the interaction between forests and water is paramount and should be given higher priority. Forest watersheds provide a high proportion of the water for home, agricultural, commercial and ecological needs in both upstream and downstream areas. Landscape managers are presented with a key task of balancing this wide range of multi-sectoral forest benefits without detriment to water resources and ecosystem function. To address this priority, there is a pressing need for greater understanding of the interactions between forests and water, for better recognition and capacity strengthening in forest hydrology, and for translating this knowledge into policies and decision-making processes.

The Forests and Water Research Goal has been identified in the new IUFRO 2010-2014 Strategy as one of six key areas for development. The linkages between water, wetlands and forests show the importance of managing ecosystems in their entire complexity in order to protect the related vital services. Important questions such as water consumption of growing tree crops compared to other land uses; the impact of bio-energy schemes on catchments moving towards closure require answers. The development of a framework assessing the overall benefits and costs of forestry schemes in relation to timber supply, biodiversity, societal and environmental impacts is needed. Issues of governance and institutional arrangements need to be taken into account.

The task force has been addressing the research questions through identifying tangible research goals and knowledge gaps in thematic area, promoting more multi-disciplinary research across IUFRO divisions, and promoting greater dialogue between science and policy actors.

For example, at the Third IUFRO Latin American Congress held during June 12 – 15, 2013 in San José, Costa Rica, the Task Force organized a technical session entitled “Forests, Climate Change and Water Resources”, discussing topics such as the forest hydrological processes at large watersheds, the interactions between climate change, land use, land cover change and hydrology, etc.

On the other hand, using the results derived from the long-term studies in typical sites with the most obvious water stress and the highest vulnerability to the global change, scientists of the Task Force contributed to internationally influential publications or academic journals, such as the Hydrology and Earth System Sciences Discussions, or the Journal of Hydrology.

Meetings

18 March, Murdoch University, Australia
International Conference on Forests, Drought and Climate Change Adaptation

12-15 June, San José, Costa Rica
Forests, Climate Change and Water Resources
Technical session at the Third IUFRO Latin American Congress



Photo by Gerda Wolfrum, IUFRO

Task Force on Forests and Human Health, ForHealth

Coordinator:

Hannu Raitio, Finland

Deputy Coordinator:

Tytti Sarjala, Finland

In the year 2013, the activities of the Task Force on Forest and Human Health, ForHealth, focused on the organization of international seminars for experts as well as public audiences and proposing future sessions/side events on topics of this area.

Actions of the ForHealth Task Force have promoted the planning and implementing of projects on topics concerning bioactive compounds in the forestry-based bioeconomy as well as the health promoting effects of urban forests. The EU funded LEADER project "The Network of densely-wooded regions in Europe, partner project Forest Trails" targeted the dissemination of knowledge of the effects of forests on human health and strengthening European research collaboration in this theme. The project was nominated as one of the best LEADER transnational cooperation projects in the Nordic-Baltic region 2013.

Two Newsletters were published in 2013, which introduce recent international collaboration and research programs on forests,

human health, recreation and well-being in different parts of the world, and at the same time emphasize the role of international collaboration and networking between experts of this topic.

Seminars, sessions and events

European Forest Week (9-13 December 2013), Metsä2013, ForHealth and Metla organized a side-event: "Forest biomasses as a source of novel bioactive compounds" on 10 December in Rovaniemi, Finland. Four prominent speakers were invited from the area of medicine, pharmacology, organic chemistry and the pharmaceutical industry to give an overview of the recent development in the field of forest-derived bioactive compounds, drug development and the challenges in R&D from the point of view of the pharmaceutical industry.

ForHealth has collaborated in preparing proposals for a sub-plenary session "Forest Foods, Medicines and Human Health" and a technical session "The Value and Challenges of Integrating Food and Medicinal Forest Products into Forest Management (192)" for the IUFRO2014 World Congress.

Publications

Forests and Human Health Newsletter 1/2013 and 2/2013. Available online: <http://www.metla.fi/uutiskirje/ForHealth/2013-02/>

Other Activities

Preparation of COST action "Benefits of forests for public health - strengthening transdisciplinary action (FOR4Health)" was restarted after rejection in 2013. A funding decision will be made in spring 2014.

IUFRO Task Force on Resources for the Future

Coordinator:

John Innes, Canada

Deputy Coordinators:

Jung-Hwan Park, Korea (Rep)

The IUFRO Task Force 'Resources for the Future' has had a busy year, and its major activities are either approaching completion or have been completed. In August 2013 a major international conference was held at the University of British Columbia. This attracted a suite of speakers from around the world. It differed from many traditional IUFRO conferences in that many of the speakers represented end users of forest research. As such, they were able to describe how research results are being incorporated into decision-making, and were also able to point to areas where further research would be most useful. An example was provided by a speaker from the industrial research organization FPInnovations, who demonstrated that although products with immense possibilities had been developed (nanocrystalline cellulose matrices and microfibrillated cellulose), the development of the products were merely the first step in a long and complex path towards commercialization and adoption of the product.

The conference emphasized the major changes that are currently occurring in the forest sector, and strongly suggested that the pace of change would increase in the future. Forests are still valued for wood products, and big steps are being taken to increase the demand for high-quality wood in, for example, tall building construction. This is being facilitated by the development of engineered wood products that have very different properties to traditional forms of lumber. However, many other forest products are increasing in value, including both timber and non-timber forest products. Many such products are being promoted



Wood pellets. Energy policies are creating new trade patterns. For example, wood pellets are being exported from western North America for use in European power stations in order to meet renewable energy targets. (Photo by John Innes, UBC)

as substitutes for fossil fuels and their by-products. One of the most obvious is forest biomass and its utilization as a substitute for fossil fuels in energy production. Their economic value is heavily influenced by government policies, such as the subsidies available for the adoption of clean energy and requirements to make greater use of clean energy technologies.

The Task Force team is now working on a book arising from the papers presented at the conference, with the addition of some papers by individuals unable to attend the conference. While the timing is tight, it is our intention to have this available at the IUFRO World Congress in Salt Lake City. The book will address the four themes of the Task Force, and will suggest areas of important research that need to be considered in IUFRO's next strategy.

IUFRO Special Programme for Development of Capacities (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

IUFRO-SPDC's 30th Anniversary

In 1981 at the IUFRO World Congress (Kyoto, Japan) it was decided to establish the Special Programme for Developing Countries (IUFRO-SPDC). Operational since 1983, IUFRO-SPDC over the past 30 years has provided support to the forest science community in economically disadvantaged countries in Africa, Asia, Latin America and Eastern Europe.

IUFRO-SPDC has a new name: Special Programme for Development of Capacities

Global economic development over the past decades has brought about significant changes. The world of today can no longer be rigidly divided into rich and poor countries. With the EU expanding into Eastern Europe, many countries in that region do not qualify for SPDC support anymore. Likewise, many previously developing countries have become emerging economies. Still, their forest research often remains under-resourced and thus external support should be continued.

As a consequence the term "developing countries" has ceased to sufficiently describe our target audience and the name of SPDC has thus been changed from "Special Programme for Developing Countries" to "Special Programme for Development of Capacities".

While maintaining the well-known acronym (SPDC), this new name explicitly indicates what the programme is aiming at, namely capacity building through training workshops, networking projects and support for the participation in IUFRO scientific meetings and conferences. The new name was launched at IUFROLAT 2013 and should be fully established throughout the IUFRO network by the time of the IUFRO 2014 World Congress.

Scientist Assistance Program 2013

A total of 74 forest scientists from developing countries in Africa, Asia and Latin America were sponsored to attend IUFRO conferences and scientific meetings:

IUFROLAT 2013 - Tercer Congreso Latinoamericano de IUFRO/ Third IUFRO Latin American Congress, San José, Costa Rica (65 participants);

3rd International Congress on Planted Forests "Planted forests on the globe, renewable resources for the future", Estoril, Portugal (4);

FFP 2 - Second Forests for People Conference, Traverse City, Michigan, United States (3);
Joint meeting of WP 7.03.05 and WP 7.03.07, Banff, Alberta, Canada (1); and

19th Session of the African Forest and Wildlife Commission Meeting, Namibia (1).



Participants of SPDC Training Workshop in Thimphu, Bhutan
(Photo provided by Michael Kleine, IUFRO)

This Scientist Assistance Program would not have been possible without the generous contributions provided by the donor community and partners of IUFRO, specifically the Ministry of Foreign Affairs of Finland; the United States Forest Service; the Korea Forest Research Institute and the Center for International Forestry Research (CIFOR).

SPDC Training Workshops 2013

In 2013, two training workshops, one on forest science communication and another one on science-policy interfacing were organized:

Training Workshop on Forest Science Communication,
San José, Costa Rica, 9-11 June 2013

Science-Policy Interfacing Workshop,
Thimphu, Bhutan, 22-24 October 2013

Find full information about training courses at:
<http://www.iufro.org/science/special/spdc/actproj/>

Regional Projects

IUFRO-SPDC continued to coordinate regional research networking projects:

IUFRO-FORNESSA-ITTO Project (ITTO funded)

Strengthening the capacity of ITTO producer countries in Africa in generating and disseminating scientific information on Reducing Deforestation and Forest Degradation and Enhancing Environmental Services from Forests (REDDES). The project has been extended until July 2014.

Visit: <http://www.fornis.net/ittoreddes/home>

ECOADAPT Project (EU funded)

Ecosystem-based strategies and innovations in governance networks for adaptation to climate change in Latin American landscapes. The project attempts to address adaptation of rural societies to climate change using pilot sites of the Model Forest Network in Argentina, Bolivia, and Chile. The focus is on improving water governance. Visit: <http://www.ecoadapt.eu/>

Global Forest Expert Panels (GFEP)

Coordinator:

Christoph Wildburger, Austria

The IUFRO-led Global Forest Expert Panel Initiative (GFEP) of the Collaborative Partnership on Forests (CPF) provides a mechanism for effectively linking the information requirements of intergovernmental processes related to forests with existing scientific expertise. GFEP produces interdisciplinary scientific assessment reports on key issues emerging from international policy debates. The reports are prepared by thematic Expert Panels consisting of internationally recognized scientific experts in their field. All reports undergo rigorous peer review.

Following the successful launch of the report of the Expert Panel on Biodiversity, Forest Management and REDD+ (“Understanding the Relationships between Biodiversity, Carbon, Forests and People: The key to Achieving REDD+ Objectives”) at Forest Day 6 in the framework of the Climate Change Convention in December 2012, GFEP presented an overview of the report at UNFF10 in April 2013 in Istanbul and specifically outlined its socio-economic conclusions as contribution to discussions on the session’s main topic, forests and economic development.

Based on the renewed mandate given by the CPF to continue the initiative, IUFRO Headquarters developed a proposal on a new thematic scientific assessment for consideration by the CPF, following consultations with scientists, policy makers, stakeholders and donors. The respective concept note for a new assessment on forests and food security was approved by all CPF members in July 2013.

Consequently, leading experts, CPF members and donors convened in a Scoping Meeting in October 2013 and elaborated an annotated outline for an assessment. On basis of the meeting outcomes IUFRO developed respective Terms of Reference (ToR) for a new thematic panel. CPF members approved the ToR and established the Expert Panel on Forests and Food Security in November 2013. They also endorsed Bhaskar Vira, University of Cambridge, as Panel Chair.

The Panel’s work focuses on the following objectives: to clarify the different dimensions and the role that forests and trees play in providing food security and nutrition; to analyze the social, economic, and environmental synergies and trade-offs between forests and food security and nutrition, and related management interventions; and to assess relevant frameworks and responses.

Taking into account regional and cultural diversity as well as gender balance, the GFEP Coordinator and the Panel Chair invited more than 25 leading experts representing various scientific disciplines to join the Panel. Hosted by CIFOR, the Panel Members will convene for their 1st meeting on 12 - 14 March 2014 in Bogor, Indonesia. Their agenda is to develop detailed chapter outlines for the assessment’s report, to distribute the tasks between authors, and to agree on a schedule for their work.

The full report of the Panel will be launched at the eleventh meeting of the United Nations Forum on Forests in May 2015. More on www.iufro.org/science/gfep/

Global Forest Information Service (GFIS)

Coordinator:

Eero Mikkola, Finland

GFIS had a positive year in 2013 seeing an increase in partners and a marked increase in usage statistics over 2012. The CPF joint initiative led by IUFRO added 43 partner organizations focused on forests that utilize GFIS to help disseminate their information. The www.gfis.net portal saw consistent traffic throughout the year with an average of over 20,000 information seekers visiting GFIS each month combining for 517,000 visits from around the world, an increase in over 8000 visits per month.

Development of the GFIS gateway was undertaken to develop highlighted topics, as well as to make back-end adjustments to improve search-engine optimization. In addition the social media outlets of GFIS continued to grow with a 2000 follower milestone on twitter and over 600 subscribers on the newsletter.

GFIS participated in the Third IUFRO Latin American Congress and hosted two workshops in Asia. The workshops were hosted in Seoul, South Korea in coordination with KFRI and in Tsukuba, Japan with FFPRI. The workshops proved successful in generating increased information provision from the participating organizations and generating support for 2014.

2014 plans comprise the launch of upgrades to the GFIS portal to allow improved information filtering for the inclusion of regional



GFIS-Korea Training Workshop
(Photo provided by Eero Mikkola, METLA)

maps. Also the website will undergo style designs to better portray partner information. Further, GFIS plans to participate in the IUFRO 2014 World Congress and expand its online presence to increase usage rates and partnership development.

GFIS is thankful to all its partner organizations and sponsors and looks forward to another successful year. The Global Forest Information Service was sponsored in 2013 by the United States Forest Service and the Austrian Ministry of Life.

Special Project World Forests, Society and Environment (IUFRO-WFSE)

Coordinator:

Pia Katila

WFSE is a global, open, collaborative network of scientists and experts steered by ten international research organizations and coordinated at the Finnish Forest Research Institute. WFSE supports sustainable forest-related development by collating and critically analysing existing scientific knowledge on topics of international relevance in the forest, society and environment interface and by undertaking new research to fill in crucial gaps in existing knowledge. WFSE addresses these topics in a participatory and holistic manner producing interdisciplinary, science-based, future oriented information that is relevant to forest-related sustainable development.



*Participants of the WFSE editorial meeting in Helsinki September 2013
(Photo provided by Gerardo Mery, METLA)*

The WFSE partner organizations are: CATIE (Tropical Agricultural Research and Higher Education Center), CIAS (Centre for Integrated Area Studies, Kyoto University), CIFOR (Center for International Forestry Research), CIRAD (Centre de coopération internationale en recherche agronomique pour le développement), EFI (European Forest Institute), FAO (Food and Agriculture Organization of the United Nations), Metla (Finnish Forest Research Institute), NRCan (Natural Resources Canada), Thünen Institute of International Forestry and Forest Economics, University of Florida, VITRI (Viikki Tropical Resources Institute, University of Helsinki).

In 2013 the main activities of WFSE concentrated on the coordination and development of the new book "Forest under Pressure: Local Solutions to Global Issues". This book is a major effort of over one hundred authors from different parts of the world. The underlying goal of this book is to identify what appear to be the most important "conditions" that foster meaningful progress towards forest-related sustainable development and sustainable forest management (SFM). We are also interested in how the different conditions and their combinations have changed, during the past 20 years, and how they have affected sustainable forest-related local development and SFM as an essential element of that development. The book will consist of four parts and include 27 case study analyses. Most of the case study chapters were finalized during 2013.

Three meetings were organized to advance the writing of the different parts of the book: the authors of synthesis/results part of the book, Part III, met in Wageningen, the Netherlands (TROPENBOS) in April and again in Helsinki in September 2013, and the authors of the future oriented part of the book, Part IV, met in September in Helsinki (see photo).

In May WFSE was the main organizer of the high level Seminar on Cooperation between IUFRO and Finnish Governmental Agencies in Helsinki. The discussions with WFSE's main sponsor were further continued in December.

At the IUFROLAT Regional Congress in June in Costa Rica, WFSE organized a Technical Session to present some of the contents of the new book relating to SFM in Latin America. During the Congress, the Steering Committee of WFSE convened to plan and agree on the project activities for 2013.

At the end of 2013 Gerardo Mery retired from the position of Coordinator of IUFRO-WFSE. Gerardo brought WFSE under the IUFRO umbrella when he assumed the position of coordinator in 1998. The new IUFRO-WFSE coordinator starting from 1 January 2014 is the former deputy coordinator Pia Katila, also from at the Finnish Forest Research Institute.

IUFRO Officeholders (OF), Member Organizations (MO); and Meetings (MT) per Region

Region:	OF	MO	MT
Europe:	287	232	40
Northern America:	149	124	13
Latin America:	49	57	8
Africa:	25	60	2
Asia:	112	138	16
Oceania:	34	27	1
Total:	656	638	80

New Members 2013

Member Organizations

Australia 0994.00.00

University of Tasmania
School of Plant Science and National
Centre for Future Forest Industries
Hobart, Tasmania

Burkina Faso 0996.00.00

University of Ouagadougou
Laboratory of Biology and Ecology of
Plants
Ouagadougou

China 0995.00.00

International Center for Bamboo and
Rattan
Beijing, Chaoyang District

Ghana 0997.00.00

Presbyterian University College
Akuapem Campus
Akropong-Akuapem

Israel 0992.00.00

FuturaGene Ltd.
c/o FuturaGene Israel Ltd.
Rehovot

South Africa 0993.00.00

Nelson Mandela Metropolitan University
George

Associated Members

Australia

Griffin Rod 790

Griffin Tree Improvement Pty. Ltd.
Sandy Bay, Tasmania

Reid Nick 795

University of New England
Ecosystem Management
School of Rural Science and Natural
Resources
Armidale, NSW

Canada

Wei Xiaohua (Adam) 801

University of British Columbia
Department of Earth and Environmental
Sciences
Kelowna, British Columbia

García Oscar 806

University of Northern British Columbia
Ecosystem Science & Management
(ESM) Program
Prince George, British Columbia

Chile

Ibáñez G. Cristián A. 809

Universidad de La Serena
Departamento de Biología
La Serena

Cyprus

Socratous Michalis 793

Timber Training & Research Centre
Nicosia

France

Charrier-El Bouhtoury Fatima 796

Université de Pau de Pays de l'Adour
IPREM-UMR CNRS 5254-EPCP
Department Sciences et Genie des mate-
riaux, Mont De Marsan

Stokes Alexia 810

INRA; EFPA; UMR AMAP
Montpellier

India

Kavileveetil Sankaran 803

Shomur Palakkad District, Kerala

Semply Avtar Singh 813

Punjab Agricultural University
Department of Forestry & Natural Re-
sources, Ludhiana, Punjab

Italy

Sanfilippo Massimiliano 792

Agrigento

Japan

Terazawa Kazuhiko 791

Tokyo University of Agriculture
Department of Bioproduction
Faculty of Bioindustry
Abashiri, Hokkaido

Konoshima Masashi 794

University of the Ryukyus
Faculty of Agriculture
Okinawa

Korea (Rep)

Kang Ho Sang 800

Seoul National University
National Instrumentation Center for Envi-
ronmental Management
College of Agriculture and Life Sciences,
Seoul

Portugal

Jung Thomas 802

Universidade do Algarve
Laboratório de Biotecnologia Molecular e
Fitopatologia

Faculdade de Ciências e Tecnologia
Campus de Gambelas
8005-139 Faro

Spain

Iturriza Eugenia 798

Neiker-Tecnalia, Instituto Vasco de Inves-
tigacion y Desarrollo Agrario
Produccion y Proteccion Vegetal
Vitoria-Gasteiz

Sri Lanka

De Zoysa Mangala 799

University of Ruhuna
Department of Agricultural Economics
Mapalana, Kamburupitiya

Sweden

Belyazid Salim 804

Lund University
Department of Chemical Engineering
Lund

Street Nathaniel 805

Umeå Plant Science Centre
Institutionen för fysiologisk botanic
Umeå

Fredman Peter 811

Forskar för turiströrelsens utveckling
Mittuniversitetet
Östersund

Thailand

Haruthaithanasan Maliwan 808

Kasetsart University
Kasetsart Agricultural and Agro-industrial
Product Improvement Institute
Bangkok

United States

Gertner George 812

University of Illinois
Department of Natural Resources &
Environmental Studies, College of Agri-
culture
Urbana, Illinois

Venezuela

Encinas Osvaldo 797

Universidad de Los Andes
Facultad de Ciencias Forestales y Ambi-
entales
Mérida

Finances

Note: The figures given below are the final figures before auditing.

IUFRO Balance - as per 31 December 2013 in Euro

A S S E T S		TOTAL	E Q U I T Y and L I A B I L I T I E S		TOTAL
A. Fixed Assets			A. Equity		
I.	Intangible property	2,267	I.	Capital as per 31.12.2012	846,646
II.	Tangible assets	27,102	II.	Loss 2013	-65,352
III.	Financial assets	408,958			
	Total	438,328		Total	781,294
B. Current Assets			B. Accruals		
I.	Accounts receivable	36,788			
II.	Other receivables	73,861	C. Liabilities from contributions not yet used		
III.	Cash on hand and in banks	776,975			
	Total	877,624	D. Liabilities		
C. Prepaid Expenses			E. Deferred income and credits		
		660			
TOTAL ASSETS		<u>1,326,612</u>	TOTAL LIABILITIES		<u>1,326,612</u>

IUFRO International Union of Forest Research Organizations - UNION Profit and Loss - Overview 31 December 2013 in Euro

Capital 31 Dec 2012		846,646
INCOME 2013:		
Membership Fees (received)	-241,249	
Publications	-189	
Donations for budget year 2013	-1,165,354	
Other income / refunds	-148	
Interest (bank)	-11,254	
TOTAL INCOME		-1,418,195
EXPENDITURE 2013:		
Salaries and contracts	904,475	
Contributions for third organizations	4,141	
Office equipment and maintenance	40,388	
Printing, postage and PR activities	63,458	
Travel	67,535	
Organization of meetings, travel support, SAP	310,700	
Legal expenses, accounting	33,948	
Equipment, operating costs, insurances	27,635	
Bank charges, currency differences	15,568	
Others	15,699	
TOTAL EXPENDITURE		1,483,548
Loss for the year 2013		65,352
Capital 31 Dec 2013		781,294

Please note that the donations include the rest balances of the year 2012, but exclude the accruals of revenue into the year 2014.

Sponsorships

Grants and
in-kind contributions
to IUFRO in 2013

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

Sponsor categories:

Gold: EUR 100,000 and above
Silver: from EUR 50,000 to 99,999
Bronze: from EUR 25,000 to 49,999



Southern Brazil (photo by Sandra Luque, IRSTEA)

*Note: All figures in the table below are given in Euro.
These are the final figures before auditing.*

Sponsorships actually received in 2013 in the various cost centers in Euro (Grants and in-kind contributions)

Grantors / Contribu- tors	SPDC	GFIS	WFSE	GFEP	Secre- tariat	In-kind contri- butions ¹	TOTAL
Austrian Government	0	11,000	0	0	362,800	153,339	527,139
Ministry of Foreign Affairs of Finland	147,000	0	35,000	118,000	0	0	300,000
Finnish Forest Research Insti- tute (METLA)	0	0	0	0	0	231,620	231,620
Korea Forest Research Insti- tute (KFRI)	93,396	0	0	0	49,891	0	143,287
US Forest Service (USA)	61,969	20,892	0	32,443	0	0	115,304
Contribution World Resour- ces Institute	47,039	0	0	0	0	0	47,039
Contribution ITTO	22,469	0	0	0	19,313	0	41,782
Contribution BOKU	20,008	0	0	0	0	0	20,008
Contribution CIFOR	9,168	0	0	0	0	0	9,168
Contribution IUCN	8,000	0	0	0	0	0	8,000
Contribution GIZ	5,000	0	0	0	0	0	5,000

¹ These are all non-cash contributions such as staff time and office facilities.

IUFRO Board

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TF Forest and Water Interactions: Tony Simons, Kenya
TF Biodiversity and Ecosystem Services:
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TF Forest Bioenergy: Rolf Björheden, Sweden
TF Forests for People: Ulrike Pröbstl, Austria
TF Forests and Climate Change: Markku Kanninen, Finland
TF Forests and Human Health: Hannu Raitio, Finland
TF International Forest Governance: Ben Cashore, USA
TF Education in Forest Science: Piotr Paschalis-Jakubowicz,
Poland

Special Programmes, Projects and Initiatives

IUFRO Special Programme for Development of Capacities (IUFRO-SPDC) and IUFRO Deputy Executive Director:
Michael Kleine, Austria
IUFRO World Forests, Society and Environment (IUFRO-WFSE): Gerardo Mery, Finland
Global Forest Information Service (GFIS):
Eero Mikkola, Finland
CPF Global Forest Expert Panels (GFEP):
Christoph Wildburger, Austria

FAO Representative

Eduardo Rojas Briales

Representatives of Observer Organizations

IFSA: Walid Mustapha (IUFRO liaison officer)
WWF: Gerald Steindlegger
ICRAF: Dennis Garrity
IUCN: Stewart Maginnis
CIFOR: Peter Holmgren

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Deputy Executive Director and SPDC Coordinator:
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Web Management and Communication:
Brigitte Burger, Austria
Library and Database Administrator:
Sylvia Fiege, Austria
SPDC Project Management and Translation Services:
Margareta Khorchidi, Austria
Junior Professional Officer – IUFRO/IFSA Joint Position:
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Project Coordinator:
Renate Prueller, Austria
System Administrator:
Heimo Schaffer
SPDC/GFEP Project Management and Translation Services:
Eva Schimpf
Finances and Administration (on maternity leave):
Judith Stoeger-Goiser
Finances and Administration:
Astrid Toppel
PR & Communication, Publications and Translation:
Gerda Wolfrum

IUFRO Honours and Awards

13 Certificates of Appreciation

Teresa Cristina Magro, Eduardo Rojas-Briales,
Alfred Oteng-Yeboah, Yurdi Yasmi, Jennifer Hayes,
Lisa Sennerby-Forsse, Tomás Schlichter, Antti Uotila,
Fernando Carrera, José Joaquín Campos Arce,
Roger Villalobos, Andrzej Wegiel, Krzysztof Polowy

IUFRO Headquarters Publications 2013

IUFRO Occasional Paper 26

Benjamin Cashore, Editor. 2013. Forest governance scholarship for the real world: Building strategic insights through policy learning. International Union of Forest Research Organizations

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5 IUFRO Spotlight issues
IUFRO Annual Report 2012

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Bottom (left to right): Michael Kleine, Astrid Toppel (both IUFRO)

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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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