

**THE ONLINE INFORMATION BULLETIN OF THE GLOBAL FOREST SCIENCE NETWORK**

## Meeting Multiple Demands for Forest Information

By Dr Jim O'Hehir, Deputy Coordinator of IUFRO Working Party [4.01.05](#) – Process-based models for predicting forest growth and timber quality

The theme of the IUFRO Conference held 17-20 August 2009 in Mount Gambier, South Australia was 'Meeting Multiple Demands for Forest Information: New Technologies in Forest Data Gathering'. It picks up on the emergence of new data collection technologies and the potential of using data collected for one purpose for multiple other purposes as well. For example airborne LiDAR data collected for inventory purposes may also be used for operations planning or ecological assessments. Data captured by harvesters for optimisation purposes may also be used for monitoring of harvesting operations, yield mapping, yield auditing and the development of predictive models for future harvesting operations.

The objective of this conference was to review the latest research and practical developments relating to this theme. The six plenary sessions covered the following subthemes:

- New sensor technologies for forest data collection.
- Remote sensing for forest management.
- Precision forestry and value chain optimisation.
- Forest carbon assessment and monitoring.
- Collect once use often: Multiple uses of forest data.
- Economics of plantation productivity inputs.

Professor Jerry Vanclay, Head of School, Environmental Science & Management at Southern Cross University opened the conference challenging attendees to think of different ways about methods of data acquisition in the future. These new methods included: remote controlled drones and ground based vehicles; laser sensors and remote sensing tools; and, site preparation and harvesting equipment. He cautioned that whatever methods are chosen they must be 'coordinated, integrated and fit for purpose'.

Professor Ian Ferguson (University of Melbourne) and Doctor Sadanandan Nambiar (CSIRO) closed the conference by summing up the major learnings which included:

- The need for continuous efforts to strengthen coherence in forest science.
- Technological change is rapid and there is a need to change forest industry attitudes to ensure faster uptake of this technology.
- Technology should serve the 'business of the house' because when applications are problem driven, outcomes will make better impacts. Greater strategic investment will be required in research and development transfer and training to take advantage of the new technology.



Photo by Tim Murphy:  
Professor Jerry Vanclay, Head of School, Environmental Science & Management at Southern Cross University presents the keynote address to open the conference.

- The skills of technical forestry advisors will need strengthening in collaboration across countries and agencies to ensure skills are not the rate limiting step for progress.

Analytical techniques are available for analysing the data that are now available including Bayesian and other adaptive methods.

- Multiple purpose data may have different regional and national contexts and these need to be considered and allowed for in forest management systems.
- Precision forestry may provide some quick benefits especially for herbicide risk management.
- Tree breeding is a highly developed area of technological development and offers the possibility of becoming more so if value gains can be more clearly demonstrated.
- Progress derived from the availability of new data will represent steps to sustainable forest management and this will be incremental not massive leaps.

Meeting website:

<http://www.alloccasionsgroup.com/IUFRO>

IUFRO Units involved: [4.01.00](#), [4.02.03](#), [6.15.00](#), [3.01.00](#)

Participation:

65 participants from countries including Canada, Japan, New Zealand, Sweden, USA, and Australia.

## XIII World Forestry Congress

The XIII World Forestry Congress, "Forests in Development: A Vital Balance", from 18-23 October 2009 in Buenos Aires, Argentina, was a most successful event. It was jointly organized by the Food and Agricultural Organization of the United Nations (FAO) and the Government of Argentina and attracted more than 7000 participants from international organizations, governments, universities, private sector and civil society. One of the main outcomes of the Congress was a declaration of action through which the 'vital balance between forests and development can be improved'. The Congress also elaborated recommendations to the UNFCCC calling for urgent actions on issues such as promotion of sustainable forest management or a need for improved inter-sectoral cooperation, among others.

For detailed coverage, see:

<http://www.iisd.ca/yimb/forest/wfc13/19oct.html>

For IUFRO, the WFC was also a great success. Two IUFRO sessions in particular attracted several hundred participants: The **IUFRO Directors' Forum** led by Konstantin von Teuffel (Forest Research Institute Baden-Württemberg, Germany) and Ann Bartuska (USFS) discussed the issue of "Forest monitoring as a basis for political decision-making"; and the **IUFRO Symposium on "Emerging issues in forest science"** included statements by all IUFRO Division Coordinators and was followed by a lively debate with the audience excellently moderated by Niels Elers Koch, IUFRO Vice-President for Divisions.



In his address during the opening plenary session, Professor Don Koo Lee, President of IUFRO, recalled the **60 years of successful collaboration between IUFRO and FAO** and, in the closing plenary **IUFRO President Don K. Lee and FAO ADG Jan Heino** (see photo) were part of a moderated session to celebrate this 60<sup>th</sup> anniversary of signing a Memorandum of Understanding by FAO and

IUFRO and re-signed the MoU to foster their very productive collaboration also in the future.

Furthermore, the pre-Congress training workshop held by the Special Programme for Developing Countries (IUFRO-SPDC) and the side events organized by the Special Project on World Forests, Society and Environment (IUFRO-WFSE), the Global Forest Information Service (GFIS) and the IUFRO Task Forces on Forests and Human Health, Traditional Forest Knowledge and Improving the Lives of People in Forests added to the successful presentation of IUFRO knowledge at the WFC. Last but not least, the IUFRO booth and the adjacent IUFRO World Congress booth attracted so many people that both booths were "sold out" at the end of the Congress week.

## IUFRO Board Identifies Emerging Issues for Forest Science

Immediately before the WFC, the IUFRO Board held its annual meeting in Buenos Aires, where it discussed, among other things, emerging issues in forest science. The Board members identified the following six key themes that should guide the future work of IUFRO:

**Forests for people; forests and climate change; forest bio-energy; forest biodiversity; forests and water; resources for the future.**

These themes will form the backbone for the IUFRO Strategy 2010-2014 which will be drafted based on the Board's guidance.

A communication training session for IUFRO Board members rounded off a very successful meeting, which, all in all, has set a strong mark for the future of IUFRO, by recommending, *inter alia*, a significant increase in gender balance for the composition of the next Board 2010-2014.



## 13 December 2009: Forest Day 3

Radisson SAS Falconer Hotel in Copenhagen, Denmark.

Forest Day 3 will take place alongside the **15th Conference of the Parties of the UN Framework Convention on Climate Change (UNFCCC)** and will be hosted by the Collaborative Partnership on Forests, the Government of Denmark and CIFOR. IUFRO will be one of the co-organizers of this event. For further details, contact: [cifor-forestday\(at\)cgiar.org](mailto:cifor-forestday(at)cgiar.org) For IUFRO activities: [buck\(at\)iufro.org](mailto:buck(at)iufro.org)



Introduction to a series of releases related to the **XXIII IUFRO World Congress: 23-28 August 2010, Seoul, Republic of Korea**

## Forests for the Future: Sustaining Society and the Environment

*Vienna (27 October 2009) Human well-being is highly dependent on the well-being of the world's forests. Among many other benefits, forests provide the resource for building materials and renewable energy, take in carbon dioxide and release oxygen. They also protect against erosion and influence local and global climate. Many medicines are derived from forest plants.*

The 23rd IUFRO World Congress from 23-28 August 2010 in Seoul, Korea, will be a great opportunity for researchers and decision-makers to learn, to share best practices, and to synthesize the newest and most innovative thinking on the forest challenges that affect all of us.

More: <http://www.iufro.org/media/iwc2010-news-stories/>  
Congress website: <http://www.iufro2010.com>

## Publications

### Forest Agencies' Early Adaptations to Climate Change IUFRO Occasional Paper No. 23

October 2009

This publication prepared by Chris Eastaugh, Christopher Reyer, Pablo González Moreno, Wu Jian, Alberto Gappmayer Biscaia, and Olga Pentelkina summarizes the state of the art of forest policy responses regarding adaptation to climate change in 14 countries. Downloadable from: <http://www.iufro.org/publications/series/occasional-papers/>

### Forests for People: Community Rights and Forest Tenure Reform

Edited by Anne Larson, Deborah Barry, Ganga Ram Dahal and Carol J. Pierce Colfer. Earthscan/CIFOR, London, 2009. (IUFRO Task Force on Improving the Lives of People in the Forests)

### Management of Recreation and Nature Based Tourism in European Forests

Ulrike Pröbstl, Veronika Wirth, Birgit H.M. Elands, Simon Bell (Eds.)

This book has been prepared in the course of COST E 33 Forest recreation and nature tourism by the working party on "Recreation Planning and Management" and will be published in November 2009. ISBN 978-3-642-03144-1.

It provides for the first time a Europe-wide overview on the state of the art of management of recreation and nature tourism in forests. It describes the current situation and conflicts in the different regions of Europe and provides solutions illustrated by good practise examples. It addresses traditions, differences and similarities in European forests as well as new tasks, goals and strategies. The final discussion provides a profound insight into future trends regarding forest recreation and nature based tourism.

### Drying Wood with High Frequency Electric Current

by Helmuth Resch, University of Natural Resources and Applied Life Sciences, Vienna, Austria, Society of Wood Science and Technology, Madison, Wisconsin, USA. ISBN 978-0-9817876-1-9. Order online at: <http://www.swst.org/reschBook.html>

### Forest Resilience, Biodiversity, and Climate Change

The Secretariat of the Convention on Biological Diversity (CBD) has launched a synthesis report on the biodiversity/resilience/stability relationship in forest ecosystems. The report strongly supports the conclusion that the capacity of forests to resist change, or recover following disturbance, is dependent on biodiversity at multiple scales. The findings are relevant for the further implementation of the CBD programme of work on forest biodiversity, as well as for efforts to reduce emissions from deforestation and forest degradation (REDD), as the resilience and stability of forest ecosystems are linked to the permanence of carbon stocks.

The publication is available for download at <http://www.cbd.int/doc/publications/cbd-ts-43-en.pdf>

### iForest: Open Access Online Journal

iForest is an open access, peer-reviewed online journal that encompasses all aspects of forest science: forest ecology, biodiversity/genetics, and ecophysiology, silviculture, forest inventory and planning, forest protection and monitoring, forest harvesting, landscape ecology, forest history, wood technology. The journal is archived in the Directory of Open Access Journals (DOAJ).

For more information, contact the editor-in-chief:

Marco Borghetti at [marco.borghetti@unibas.it](mailto:marco.borghetti@unibas.it) or visit: <http://www.sisef.it/iforest/>

### IUFRO Structure and Officeholders – Update!

The latest update of the IUFRO Structure with names and contact details of IUFRO Officeholders is now available at: <http://www.iufro.org/who-is-who/> and <http://www.iufro.org/science/>

## Announcements

### Call for Applications for the ICSU Grants Programme 2010

The ICSU Grants Programme is reserved for ICSU Members. The Programme Statement and Schedule, as well as the Application Form, are available in the Member Zone of the ICSU web site. The deadline for receipt of applications is **1 December 2009**. If you have any questions about the Grants Programme, please consult *Maureen Brennan at the ICSU Secretariat* ([maureen@icsu.org](mailto:maureen@icsu.org)) well ahead of the submission deadline.

### Assistant Professor in Green Space Management Faculty of Life Sciences, University of Copenhagen

Forest & Landscape Denmark, Department of Parks and Urban Landscapes wishes to appoint an assistant professor or post-doc in Green Space Management from 1 January 2010 or as soon as possible thereafter.

The application must be received no later than **16 November 2009 at 12.00 noon**.

For details, visit: Position announcements at <http://www.iufro.org/discover/noticeboard/>

For further information about the post, please contact *Professor Cecil C. Konijnendijk* on tel. (+45) 35 33 18 09, [cck@life.ku.dk](mailto:cck@life.ku.dk)

### PhD Fellowship in Green Space Management

Forest & Landscape Denmark. [Website](#)  
Deadline: **16 November 2009**

### WFI International Fellowship Program

The WFI Fellowship brings professionals in natural resources to conduct a practical research project at the World Forestry Center, a private, non-profit educational organization located in Portland, Oregon, USA. Fellowships are open to any country, and there is a matching grant from the Harry A. Merlo Foundation. Over 75 Fellows from 24 countries have participated to date. Applications for 6-12 months terms are accepted year-round. For details, visit: <http://wfi.worldforestry.org/index/international-fellowship.html>

## IUFRO Meetings

**NOTE: This is not a full list of IUFRO meetings!**

Search our [online calendar](#) for a full list of meetings.

Find non-IUFRO meetings on the IUFRO [Noticeboard](#).

Also search for forest-related events at: <http://www.gfis.net>



## XXIII IUFRO World Congress

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

**Abstract submission until 31 December  
2009 via the Congress website:**  
<http://www.iufro2010.com/>

22-28 November 2009

**Knowledge-Based Management of Tropical Rainforests**  
Cayenne, French Guiana

IUFRO [1.02.00](#)

**Contact:** Robert Nasi, [r.nasi@cgiar.org](mailto:r.nasi@cgiar.org)

[http://www.gip-ecofor.org/publi/  
page.php?id=1&rang=0&domain=39&lang=en\\_GB](http://www.gip-ecofor.org/publi/page.php?id=1&rang=0&domain=39&lang=en_GB)

14-17 December 2009

**Asia and the Pacific Forest Products Workshop – Green  
Technology for Climate Change Mitigation and  
Adaptation**

Colombo, Sri Lanka

IUFRO [5.00.00](#)

**Contact:** Sim Heok-Choh, [simhc@frim.gov.my](mailto:simhc@frim.gov.my)

[http://www.iufro.org/science/divisions/division-5/50000/  
activities/](http://www.iufro.org/science/divisions/division-5/50000/activities/)

18-22 January 2010

**11th International IUFRO Wood Drying Conference**  
Skelleftea, Sweden

IUFRO [5.00.00](#), [5.04.00](#), [5.04.06](#)

**Contact:** Lena Antti, [lena.antti@ltu.se](mailto:lena.antti@ltu.se)

<http://www.wdc2010.org/>

8-12 March 2010

**Conserving and Enhancing Productivity of Forests in the  
Genomics Era**

Kuala Lumpur, Malaysia

IUFRO [2.04.01](#), [2.04.10](#)

**Contact:** Wickneswari Ratnam, [wicki@ukm.my](mailto:wicki@ukm.my) ,

Norwati Muhammad, [norwati@frim.gov.my](mailto:norwati@frim.gov.my)

<http://www.iufrokualalumpur2010.org/>

12-14 April 2010

**Int'IConference on the Efforts in Response to Forest-  
Related Natural Disasters - The 1st Forest Science Forum**  
Beijing, China

IUFRO [8.00.00](#)

**Contact:** Conference organizers, [csf\\_org@caf.ac.cn](mailto:csf_org@caf.ac.cn) ;

Alex Mosseler, [amosselel@nrcan.gc.ca](mailto:amosselel@nrcan.gc.ca)

<http://www.gfsf2010.org/>

20-25 September 2010

**Fifth International Poplar Symposium**

Orvieto, Italy

IUFRO [2.08.04](#)

**Contact:** Paola Spano, [paola.spano@entecra.it](mailto:paola.spano@entecra.it) ;

Lucia Cherubini, [lucia.cherubini@ibaf.cnr.it](mailto:lucia.cherubini@ibaf.cnr.it)

<http://www.sisef.it/IPS-V/>

21-27 September 2010

**Forest Landscapes and Global Change: New Frontiers in  
Management, Conservation and Restoration**

Bragança, Portugal

IUFRO [8.01.02](#)

**Contact:** Joao Azevedo, [iufrole2010@ipb.pt](mailto:iufrole2010@ipb.pt) ;

Jiquan Chen, [jiquan.chen@utoledo.edu](mailto:jiquan.chen@utoledo.edu)

<http://www.ipb.pt/iufro2010/>

11-15 October 2010

**Society of Wood Science and Technology (SWST):  
53rd International Convention**

Geneva, Switzerland

IUFRO [5.00.00](#)

**Contact:** Victoria L. Herian, [vicki@swst.org](mailto:vicki@swst.org)

<http://www.swst.org/meetings/AM10/>

8-10 February 2011

**Australasian Forest Genetics Conference: Integrating  
quantitative and molecular tools**

Christchurch, New Zealand

IUFRO [2.02.20](#), [2.04.02](#)

**Contact:** Luis A. Apiolaza,

[Luis.Apiolaza@canterbury.ac.nz](mailto:Luis.Apiolaza@canterbury.ac.nz)

<http://www.forestgenetics.com.au/>

## Other Meetings

11-12 November 2009

**Future forest monitoring in the European Union. Providing  
information for multifunctional forest management**

Uppsala, Sweden

**Contact:** Tor-Björn Larsson, [Tor-Bjorn.Larsson@srh.slu.se](mailto:Tor-Bjorn.Larsson@srh.slu.se)

<http://www-conference.slu.se/futforestmon/>

15-16 December 2009

**Providing a knowledge basis for sustainable hunting and  
biodiversity conservation. Streamlining hunting bag  
statistics in the EU**

Uppsala, Sweden

**Contact:** Conference Secretariat [gamemonitor@slu.se](mailto:gamemonitor@slu.se)

<http://www-conference.slu.se/gamemonitor/>

13-15 May 2010

**Forestry: Bridge to the Future**

Sofia, Bulgaria

University of Forestry of Sofia

**Contact:** Milko Milev, [forconf2010@abv.bg](mailto:forconf2010@abv.bg)

<http://ltu.jlsoft.eu/>

20-23 June, 2010

**Urban Environmental Pollution - UEP 2010 - Overcoming  
Obstacles to Sustainability and Quality of Life**

Boston, USA

**Contact:** Kay Russell, [UEP2010@elsevier.com](mailto:UEP2010@elsevier.com)

<http://www.uep2010.com>