

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

*A merger of IUFRO News and IUFRO E-Notes distributed by e-mail 10 times a year.*

### Sustainable Forestry in Theory and Practice

*Report from the IUFRO Conference on Sustainable Forestry in Theory and Practice \**

by Keith Reynolds, Coordinator of [IUFRO Working Party 4.03.03](#)



*Group photograph taken by Glenn Brearley, Forest Research, after the conference field trip when delegates visited the Forest Research, Northern Research Station in Roslin.*

Following the 1992 Earth Summit, forest research organizations around the world have been developing and testing new approaches to deliver sustainable forest management. Major international initiatives such as the Montreal Process and the Ministerial Conference on the Protection of Forests in Europe (MCPFE), and the growing importance of forest certification programs, attest to international recognition of the importance of sustainable forestry within the forest sector and for the general public.

A basic goal of the IUFRO Conference, Sustainable Forestry in Theory and Practice, was to demonstrate how scientific knowledge has evolved in recent years to address the challenges posed by sustainable forestry. The conference addressed four broad themes: 1, Science and Policy; 2, Inventory and Monitoring; 3, Statistics and Modelling; and 4. Information and Knowledge Management. Beyond simply reviewing the current state of the art within each theme, however, the conference aimed at fostering dialog across thematic areas and produced the following results:

**Science and Policy.** In attempting to solve the problems of Forest Sustainability, scientists need to better define what it means to integrate, if so-called integrative solutions are to be more than a collection of papers stapled together. In the policy process, integration needs to be cross-sectoral. One clear opportunity for moving toward integrated analysis is for modellers and information scientists to work with natural and social scientists in framing a problem, before trying to solve it.

**Inventory and Monitoring.** Inventory and Monitoring are basic and essential to the science of sustainable forestry, because it is through them that raw data relating to the state and dynamics of forests and their environments are obtained. Good design is essential, to ensure that the right data is collected cost-effectively, and this design process involves the use of statistical and modelling methods. Analysis and modelling data lead to information and knowledge, which need to be well managed to ensure deployment leading to effective policy solutions.

**Statistics and Modelling.** Modelling techniques often are the only realistic way to approach the design and evaluation of a wide range of strategies for complex and uncertain forestry issues that can range from local to global spatial scales, and from very short to very long temporal scales. Over-reliance on static criteria and indicators of sustainability could be potentially misleading and should be treated with great care, and ideally in a modelling context.

**Information and Knowledge Management.** Knowledge management systems, which ultimately must deal with the meaning of information, should provide an appropriate framework for the required dialog between science and policy. In addition, such systems can provide not only rigorous methods for deriving monitoring requirements, but also clear specifications for interpreting monitoring data based on the science/policy dialog.

\* IUFRO Conference on Sustainable Forestry in Theory and Practice, Edinburgh, Scotland, UK, 5-8 April 2005. IUFRO units and sponsoring organizations: IUFRO units [4.02](#), [4.03](#), and [6.12](#), [Forest Research](#) (UK Forestry Commission), [Environmental Systems Research Institute](#), and [European Forest Institute](#).

## Biodiversity and Conservation Biology in Plantation Forests

**Report from the conference** in Bordeaux, France, 26-29 April 2005,

by Alex Mosseler, Deputy Coordinator, of IUFRO Research Group 8.07.00 Forest Environment

The conference, jointly sponsored by IEFC (Institut Européen de la Forêt Cultivée), INRA (Institut National de la Recherche Agronomique), IUFRO Division 8, WWF (World Wildlife Fund), and EFI (European Forest Institute) was convened to explore the role of plantation forestry in relation to biodiversity conservation. Some of the questions explored were: What are the threats and benefits of plantation forestry to biodiversity? What is the functional significance of plantations to biodiversity? How could changed practices help forest plantations meet biodiversity conservation objectives? This conference aimed to provide new scientific insights into debates over whether, and under what conditions, planted forests are good or bad for biodiversity.

A book of abstracts for this meeting was published and copies may still be available from the organizers (contact Hervé Jactel: [herve.jactel@pierroton.inra.fr](mailto:herve.jactel@pierroton.inra.fr)). In addition, selected papers will be published in a special issue of a peer-reviewed science journal, yet to be selected. For those interested in this subject, who could not attend this meeting in Bordeaux, an excellent review paper was published on "Planted Forests and Biodiversity" in IUFRO Occasional Paper 15 (ISSN 1024-414X), submitted as a contribution to the Third Session of the United Nations Forum on Forests held in Geneva, Switzerland, 2003.



## XXI IUFRO World Congress, 8-13 August 2005, Brisbane, Australia

*Forests in the Balance: Linking Tradition and Technology*

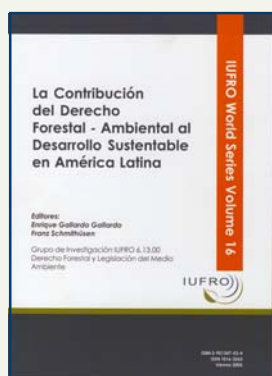
### Full Registration Deadline is 8 July 2005.

Register before 8 July for your last chance to take advantage of registration discounts and save up to 300 AUD off the onsite registration fee. Visit: [www.iufro2005.com](http://www.iufro2005.com) !

## Publications

### IUFRO World Series 16 now available

from IUFRO Headquarters!



**La Contribución del Derecho Forestal-Ambiental al Desarrollo Sustentable en América Latina** (in Spanish)

Edited by Enrique Gallardo and Franz Schmithüsen, IUFRO Research Group 6.13.00

ISBN 3-901347-53-4, 381 pages, IUFRO, Vienna 2005.

Price: 20 Euro plus mailing

### Forest Ecology and Management – Special Issue Silvicultural Research in a Changing World

Volume 209, issues 1-2, April 2005-06-15

Selected papers based on the Proceedings of the IUFRO Division 1 (Silviculture) Conference held in La Grande Motte, Montpellier, France 14-18 June 2004  
Published by Elsevier.

## Master of Science in Mountain Forestry



The international Master's Program in Mountain Forestry at BOKU, Vienna, Austria, provides academic training in English language to highly qualified students and professionals related to Mountain Forestry. Every fall (1<sup>st</sup> of October) a new batch will start. After two years of intensive studies students will graduate as "**Master of Science in Mountain Forestry**".

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Großglockner, Austria, 3708 m

## Meetings

Find announcements and reports of IUFRO events on our [online calendar](#) and the [homepages](#) of the IUFRO Units involved.

### IUFRO Co-sponsored meetings

#### ForwardFORESTS

("Ecological, Technological, Environmental and Societal Aspects of a Future Capable Forestry Crossing European Borders")

Virtual (and free of charge) conference organized by IUFRO Working Party [5.01.04](#)  
Details on ForwardFORESTS are available on <http://forwardforests.czu.cz> or contact Christine Fuerst, e-mail: fuerst@forst.tu-dresden.de

#### Forest Insect Epidemics: Population Dynamics, Dispersal, and Ecosystem Impacts

Prince George, Canada, 11-14 July 2005  
IUFRO Working Parties [7.03.05](#) and [7.03.06](#)  
Contact: Andrew Liebhold-Tel: +1-304-2851600, Fax: +1-304-2851505, e-mail: aliebhold@fs.fed.us  
<http://web.unbc.ca/~iufro/>

#### Wissenschaftliche Tagung zur Geschichte der Jagd und der Falknerei

Rosenburg, Austria, 25-27 July 2005  
IUFRO Working Party [6.07.05](#)  
Contact: Sigrid Schwenk, Fax: +49-8161-713900, e-mail: sigrid.schwenk@wzw.tum.de

#### 9th International IUFRO Wood Drying Conference

Nanjing, China, 21-26 August 2005  
Contact: Gu Lianbai-Tel: +86-25-85427058, Fax: +86-25-85435067, e-mail: iufro-wdc@wooddry.com, or iufrowdc@njfu.edu.cn

#### A Future Beneath the Trees

Victoria, Canada, 25-27 August 2005  
IUFRO Research Group [5.11.00](#)  
Contact: Tel: +1-250-391-2600 ext. 4328, e-mail: ntfp@royalroads.ca

#### Third International Precision Forestry Symposium

Seattle, United States, 24-27 October 2005  
Co-sponsored by IUFRO [Division 3](#)  
Contact: Peter Schiess-Tel: +1-206-5431583, Fax: +1-206-6853091, e-mail: schiess@u.washington.edu  
<http://depts.washington.edu/pfc2005/>

#### Precision Forestry in Plantations, Semi-natural and Natural Forests

Stellenbosch, South Africa, 5-10 March 2006  
Organized by Stellenbosch University and partners, in cooperation with IUFRO [Division 3](#)  
Contact: Martin Ziesak  
e-mail: ziesak@forst.tu-muenchen.de or mgor@sun.ac.za  
<http://academic.sun.ac.za/forestry/pf2006/index.html>

#### Forest and Water in a Changing Environment

Beijing, China, 8-10 August 2006  
Organized by the Chinese Academy of Forestry and partners, co-sponsored by IUFRO Working Party [1.17.02](#)  
Contact: Ms. Meiyang Wang,  
e-mail: mwang@forestry.ac.cn  
Phone: 86-10-62889090; Fax: 86-10-62884229.  
<http://www.caf.ac.cn/newcaf/detail2.cfm?file=631>

#### Patterns and Processes in Forest Landscapes: Consequences of Human Management

Bari, Italy, 26-29 September, 2006  
IUFRO Working Party: [8.01.03](#)  
Contact: Raffaele Laforzezza  
E-mail: r.laforzezza@agr.uniba.it  
<http://www.greenlab.uniba.it/events/iufro2006>

### Non-IUFRO Meetings

#### Management of Urban Forests around Large Cities

Prague, Czech Republic, 3-6 October, 2005  
Czech University of Agriculture Prague, Faculty of Forestry and Environment  
Contact: p.neuhoferova@kostelec.czu.cz

#### Workshop: Making the Best Use of Ecosystem Mapping

Prince George, Canada, 7-9 November, 2005  
Contact: Cindy Buker (MMFA) – 250-612-5840; e-mail: cindy@mcgregor.bc.ca

#### ForestLeadership Conference "The Sustainability Challenge"

Toronto, Canada, 1-2 March 2006  
Website [www.ForestLeadership.com](http://www.ForestLeadership.com)  
Contact: Tel (514) 274-4344; Toll free (888) 274-4344  
Fax (514) 277-6663  
E-mail: conference@forestleadership.com

## Congratulations !

#### Irish Company TreeMetrics Ltd wins Schweighofer Prize 2005

A Cork-based company, and their development partners at the University of Freiburg, Germany, have won a major European award, the Schweighofer Prize 2005, for their innovative forest assessment technology. Further information about the Schweighofer Prize can be found at [www.schweighofer-prize.org](http://www.schweighofer-prize.org).

#### Professor Pasi Puttonen nominated as Research Director of Metla

The Management Board of the Finnish Forest Research Institute (Metla) has nominated Professor Pasi Puttonen as Research Director of Metla on 17th June 2005 for a fixed term of five years starting 1st August 2005. The position is oriented towards the ecological sustainability of forest use.