

## New Findings on the Dynamics between Forests, Land Use and Food Security



Faced with a continuously expanding global population, particularly in developing countries, securing sufficient food for over 9 billion people by 2050 is of prime concern. An IUFRO-led Global Forest Expert Panel (GFEP) is currently working at a comprehensive assessment of scientific knowledge about the role of forests and trees for food security and nutrition, which will be presented at UNFF11 in May 2015.

At a **joint IUFRO/CIFOR session on 7 December 2014 at the Global Landscapes Forum in Lima, Peru**, coordinating lead authors of the assessment presented "New findings on the dynamics between forests, land use and food security". Their discussions with prominent representatives from diverse stakeholder groups and the audience focused on **three main questions**:

*Do prevailing paradigms comply with scientific evidence and discourse around the role of food production systems across the forest-agriculture continuum for food security and nutrition?*

*How do social, economic and environmental drivers, such as climate change impact on forest and tree-related food systems?*

*What are the resulting synergies and trade-offs between different land uses and what are the response options from a dynamic and integrated landscapes perspective?*

**Opening remarks:** Manoel Sobral Filho, Director, United Nations Forum on Forests Secretariat, UNFF

**Speakers:** Christoph Wildburger, Coordinator Global Forest Expert Panels, International Union of Forest Research Organizations, IUFRO; Terry Sunderland, Principal Scientist, Center for International Forestry Research, CIFOR; Henry Neufeldt, Head Climate Change Unit, World Agroforestry Centre, ICRAF

**Respondents:** Natalia Cisneros, Vice-President of the International Forestry Students' Association, IFSA; Susan Braatz, Senior Forestry Officer, Food and Agriculture Organization of the United Nations, FAO; Victoria Tauli Corpuz, UN Special Rapporteur on the rights of indigenous peoples

**Moderator:** Alexander Buck, IUFRO

**Rapporteur:** Valerie Kapos, UNEP

### Emerging findings:

There is increasing scientific evidence of the importance of forests and tree based food systems for contributing to dietary diversity and quality and their role in addressing food and nutritional security. In addition to the role of forests as a direct source of people's diets, income from non-timber forest products and agroforestry tree products provide significant benefits for national economies as well as livelihoods of, often the more vulnerable, impoverished smallholders in tropical regions.

Diverse forest and tree-based production systems offer advantages over permanent crops because of their adaptability and resilience. There are also a multitude of ecosystem services provided by forests and trees that simultaneously support food production, sustainability and environmental and human health. Managing landscapes on a multi-functional basis that combines food production, biodiversity conservation and the maintenance of ecosystem services provides opportunities to achieve food and nutritional security.

Deforestation and forest degradation, combined with climate change, will impact directly on the availability of food. Co-regulatory approaches between public and private sector actors and voluntary sustainability standards can markedly improve forest protection and food security if smallholders are actively involved.

Find out more about this and previous Global Forest

Expert Panels at: <http://www.iufro.org/science/gfep/>

Authors of the current panel on forests and food security:

<http://www.iufro.org/science/gfep/forests-and-food-security-panel/authors/>

GLF website: <http://www.landscapes.org/glf-2014/>

Discussion forum website: <http://bit.ly/1rT3QMM>

Photo credits (from left to right):

Tropical rain forest in New Zealand (stillfx);

Fruits in a supermarket in Costa Rica (Astrid Toppel);

Farming in Panama (Fran Hogan)



## Phytophthora in Forests and Natural Ecosystems

Report by Everett Hansen, Oregon State University, past Coordinator of [IUFRO Working Party 7.02.09](#)

The 7th meeting of the IUFRO Working Party 7.02.09 *Phytophthora in Forests and Natural Ecosystems* took place in Esquel, Patagonia, Argentina, from 10-14 November 2014. It was attended by 86 participants from 24 countries who discussed the following key issues:

### Species concepts and latest taxonomy

The number of described species continues to increase as new ecosystems are explored for *Phytophthora*, and as global plant trade continues to introduce previously unknown and innocuous pathogens to new habitats where they are destructive.

### Emerging invasive species

Alarming new reports were presented of threats to rare Andean conifers, heritage juniper woodlands in Britain, iconic kauri trees in New Zealand, and plantations of exotic conifers on several continents.

### Disease management

Two opposite trends were noted: "Phytophthora fatigue" is setting in among the government agencies responsible for disease management activities in Europe, Australia, and North America; local "citizen science" initiatives in California and Western Australia are channeling public energy to protect local forest values.

### Disease physiology

The "omics" revolution is offering new power to research into the mechanisms of pathogenesis, including providing a ground work for resistance selection and breeding programs.

**The threat of *Phytophthora austrocedri* to indigenous and increasingly affected conifers in South America.** Participants were alarmed to see the unchecked



*Phytophthora austrocedrae* lesion on *Austrocedrus chilensis* in Patagonia. Photo by Everett Hansen

advance of this introduced pathogen through Andean *Austrocedrus* forests.

### Conclusions

Disease management actions of individuals and local organizations are essential and can be locally effective, but for meaningful results on a scale appropriate to the global challenges to forest health from invasive *Phytophthora* species, national and international commitment and action is necessary. This has been absent, and our forests pay the price. IUFRO must lead the way through its member institutions. More meetings alone and resolutions of good intentions have not made a difference.

Meeting website: <http://www.iufrophytophthora2014.org/>  
(Book of abstracts available!)

## Global Change Research Symposium 2014 Human and Ecosystem Response to Global Change: Evidence and Application

Raffaele Laforzezza, University of Bari, Italy  
Jiquan Chen, CGCEO, Michigan State University, USA  
<http://www.global2014.it>

The Global Change Research Symposium 2014 held in Ostuni, Brindisi, Southern Italy on September 16-18, 2014 brought together 108 delegates from 28 countries of all continents (except Antarctica). In this event, cosponsored by [IUFRO 8.01.02](#), delegates were able to exchange experiences and knowledge in various sessions including one pre-conference workshop on Image Pattern Analysis (Guidos Toolbox 2.0) chaired by Dr. Peter Vogt, JRC, Italy.

The thematic sessions covered a broad range of topics including coupled natural and human systems (CNHS). The contributions provided examples of successful ecological research conducted across regions and scales as well as implications on which to base ecosystem and landscape management.

The contributions were organized into six main sections that focused on:

- (A) Coupled human and natural systems;
- (B) Global change ecology;
- (C) Remote sensing of global change;
- (D) Ecosystem modeling and management;
- (E) Green infrastructure and biodiversity; and
- (F) Ecosystem services evaluation and policy making.

Four outstanding researchers gave keynotes in the plenary sessions: *Emilio F. Moran*, Center for Global Change and Earth Observations, and Department of Geography, Michigan State University; *Piermaria Corona*, Director of the Forestry Research Center of the Italian Agricultu-

ral Research Council (CRA) and Full Professor of Forest Mensuration and Management, University of Tuscia, Italy; *Frank Martin Seifert*, European Space Agency at ESRIN/ Frascati, Italy; and *David A. Coomes*, Head of the Forest Ecology and Conservation group at the Plant Sciences Department, University of Cambridge, UK.

Delegates had a productive exchange and discussion on global change issues and landscape ecology whilst they enjoyed their stay in a Mediterranean-landscape hotspot. This Symposium had an important impact since southern Italy has great evidence of the coupling between natural and human systems.

During the Conference dinner (Sept. 18, 2014), 12 students received the Student Attendance Award thanks to the following sponsors and contributors: *Università degli Studi di Bari*; *Center for Global Change and Earth Observations, Michigan State University, USA*; *Hexagon Geospatial Integrator*; *Planetek Italia s.r.l.*; *Aerosigma s.r.l.*; *Ferrotramviaria s.p.a.*; *Natuzzi s.p.a.*; *AMIU Taranto s.p.a.*; and *Euro Masters Studies s.r.l.*

*The next Global Change Research Symposium will be held in East Lansing, Michigan, US, in October 2015.*

## Woody Plant Production Integrating Genetic and Vegetative Propagation Technologies

The Third International Conference of the IUFRO Working Party 2.09.02 *Somatic Embryogenesis and other Vegetative Propagation Technologies* took place from 8-12 September 2014 in Vitoria-Gasteiz, Spain. The meeting was co-hosted by Neiker-Tecnalia, an institution for Agricultural Research and Development operated by the Basque Government, and by the Korea Forest Research institute (KFRI) in the Ministry of Forestry of the Republic of Korea.

The main objective of the IUFRO Working Party is to foster the development and application of somatic embryogenesis (SE) and other vegetative propagation technologies in woody plants. Research areas of this unit include: the development and refinement of propagation systems for commercially and ecologically important tree species; the application of vegetative propagation in tree breeding and deployment in multi-varietal forestry balancing genetic gain and diversity; the use of vegetative propagation in genetic resource conservation, biotechnology, genomics, molecular biology, and insect and disease resistance; and the study of related disciplines such as cryopreservation, molecular genetics, and epigenetic effects.

Of the various cloning methods, SE is the primary enabling technology for the development of tree biotechnology and research. Although SE is available for many tree species, they are at different stages of development: For some species, it is well refined and ready for industrial application, but for others it is still difficult to obtain. So, an aim of this conference was to progress together by sharing successes, exchanging knowledge, collaborating, and networking.



Photograph (from left to right): Jiquan Chen, Emilio F. Moran, Frank Martin Seifert, David Coomes, Raffaele Laforteza, Jiaguo Qi.



Participants of the 2014 Conference in Spain.  
Photo Neiker-Tecnalia

The most important aspect of vegetative propagation technologies is their integration into tree breeding, and successful integration requires the collaboration of related disciplines. This conference brought together tree breeders, geneticists, tissue culturists, physiologists, biotechnologists, molecular biologists, etc. and thus offered an excellent opportunity to connect various disciplines.

### Book of Abstracts

3rd International Conference of the IUFRO Working Party 2.09.02 *Somatic Embryogenesis and other Vegetative Propagation Technologies*. Published by Servicio Central de Publicaciones del Gobierno Vasco. [Link to Abstracts](#)

*Report excerpted from the meeting website and from the welcome message by Yill-Sung Park, former Coordinator of IUFRO 2.09.02 published in the Book of Abstracts.*

## Innovations in Forest Industry and Engineering Design

Report provided by Julia Mihajlova, Vice Dean Faculty of Forest Industry, University of Forestry, Bulgaria

Scientific conferences on "Innovations in Forest Industry and Engineering Design" have been held every autumn since 2008. The seventh conference in this series took place from 13 to 15 November 2014 in Yundola - Rhodopa Mountains, Bulgaria. The meeting was organized by the Faculty of Forest Industry of the University of Forestry, Sofia - Bulgaria. Meeting website: <http://inno.ltu.bg>

During the 3 days, 63 participants from 8 countries discussed about all important and new aspects relevant to wood technology, processing industry and engineering design. The main conference topics included:

- Raw Materials for the Wood Industry
- Woodworking Machines and Equipment;
- Technologies in Logging, Woodworking and Furniture Production;
- Interior and Furniture Design – Materials, Constructions, Systems and Mechanisms in the Interior Design;
- Economics, Organization and Management;
- Natural Sciences in Support of Forest Industry and Engineering Design;
- Innovations in the Education Process.

Stronger cooperation between different countries, academic and educational institutions and enterprises from the forest industry and the creation of multinational networks for continuous innovation, research and development in the field of forestry, will allow not only for technological innovations in the forest industry sector, but will also provide the necessary and sufficient conditions for increasing competitiveness.



Photo provided by Julia Mihajlova

## Announcements

### Schweighofer Prize 2015

The Schweighofer Prize is donated by the Austrian Schweighofer family, who has been engaged in the European woodworking industry for generations. Since 2003 the award is presented every second year, and is endowed with a total prize money of € 300,000. The Schweighofer Prize awards innovative ideas, technologies, products and services in order to strengthen the competitiveness of the European Forest Based Sector.

You can submit your application or proposal either in German or English. We kindly ask you not to use another language, as no translation will be offered to the jury. Please note that only applications/proposals that meet the content and formal requirements will be accepted.

The online submission closes on 2nd February, 2015 at 14:00 CET: <https://ssl.schweighofer-prize.org/prize/>

### Top 20 Questions – Take Part!

T20Q is a global project that allows you to have your say about issues of importance in forestry and landscapes. From May through November 2014 we collected questions – concerning research and policy in forestry and landscapes – from respondents in 104 countries around the world. We are now re-engaging those who completed this first phase AND we want those who haven't contributed to get involved.

#### Sharing sets of filtered questions and then prioritizing them

Questions submitted through in Phase 1 have been sorted and organized into topics that reflect the most frequently-occurring themes. These are presented in sets of questions for further consolidating online through a ranking process. We are now seeking your contribution in assessing these questions and rating them.

We initially collected questions in very broad categories but the new themes presented in Phase 2 reflect the most frequently-occurring topics that emerged from the questions submitted in Phase 1. There are 7 cross-cutting themes in Phase 2:

People & society  
Conservation & biodiversity  
Landuse & landscape issues  
Ecosystem services  
Economics & trade  
Climate change  
Management of forests

We will count up all the scores and produce a final set of Top Twenty Questions in December. If you would like to take part, please do so by mid-December 2014: <http://sylva.org.uk/lime/index.php/833613/lang-en>

IUFRO is a key Partner in the Evidence-Based Forestry initiative, co-ordinated by CIFOR. The T20Q project is one of the components of that initiative.

## Sabah Forestry Department – 100 Years of Service to Tropical Forests

IUFRO congratulated the Sabah Forestry Department on the occasion of its 100th anniversary. The Centennial Celebrations marked a century of tremendous efforts towards managing and conserving tropical forests – Sabah's rich natural heritage. [Read more...](#)



*IUFRO Deputy Executive Director Michael Kleine conveying IUFRO's congratulations*

## IUFRO Task Forces – Open Call for Proposals

IUFRO Task Forces are established on a temporary basis to advance inter-disciplinary cooperation in inter-divisional forest research fields. Their focus is on emerging key issues that are of strong interests to policy makers and groups inside and outside the forest sector, and contribute to international processes and activities. Proposals are now being accepted for new IUFRO Task Forces that would begin their work in early 2015. **The deadline for submission of proposals is January 15th, 2015.**

<http://www.iufro.org/news/article/2014/11/13/iufro-task-forces-open-call-for-proposals/>

## Call for contributions to the UN Global Sustainable Development Report 2015

The 2015 Global Sustainable Development Report is expected to be launched in June 2015 and shall contribute to the 2015 session of the High Level Political Forum (HLPF) on Sustainable Development. Scientists, researchers, and UN staff are invited to submit briefs on research findings or solutions on issues of sustainable development, which will be reflected in a dedicated chapter of the report.

This is a unique opportunity for scientists across the world to bring scientific issues to the attention of policy makers and to be heard at the highest levels of the United Nations.

The present call initiated and coordinated by the International Council for Science (ICSU) aims to provide individual scientists and research institutions a unique opportunity to highlight issues, research findings or solutions – in the

form of briefs - that they would like to bring to the attention of policy makers. One chapter of the Report (Chapter 7) will be dedicated to these contributions.

**The deadline for submissions is 31 December 2014.** For more details including an example for such briefs can be found at:

<http://sustainabledevelopment.un.org/gsdr2015.html>

## Online Directory to Facilitate Research Collaboration

i-Tree is a state-of-the-art, peer-reviewed software suite from the USDA Forest Service that provides urban and community forestry analysis and benefits assessment tools. The i-Tree tools help communities of all sizes to strengthen their urban forest management and advocacy efforts by quantifying the environmental services that trees provide and the structure of the urban forest.

On the basis of i-Tree, the IUFRO Urban Forestry Research Group [6.07.00](#) has developed an online directory to facilitate research collaboration and information dissemination among its members across the globe. Membership is free. <http://www.itreetools.org/iufro/>

## Ph.D. Program

### Translational Plant Sciences Graduate Program at Ohio State University

A uniquely tailored plant sciences Ph.D. program offering full remission of tuition & fees, competitive stipends, and research related costs.

Submit application by: **1 January 2015**

Location: Columbus, Ohio, USA

Details at: <http://tpsgp.osu.edu/home>

## Position Announcements

<http://www.iufro.org/discover/noticeboard/position-announcements/>

### 2 Vacancies for Assistant Professor/Associate Professor in Forest and Nature Conservation Policy

The Forest and Nature Conservation Policy (FNP) chair group of Wageningen University has two vacancies for two enthusiastic and ambitious academics at the associate or assistant professor level.

Submit application by: **25 December 2014**

<https://www.academicttransfer.com/employer/WUR/vacancy/25449/lang/en/#jobspecifications>

### Assistant Professor or above in Bio-material or functional material

The Department of Forestry at National Chung Hsing University in Taiwan is seeking to appoint a full-time Assistant Professor or above in Forest Management or Bio-material from August 1, 2015. Submit application by: 25 December 2014. Location: Taichung, China-Taipei.

Submit application by: **25 December 2014**

Details at: <http://for.nchu.edu.tw/index.asp?ind=101&no=8&id=1252>

### Multiple Assistantships at University of Washington

The School of Environmental and Forest Sciences, University of Washington, Seattle offers multiple assistantships (M.S. and Ph.D.) available to study native and non-native forest insect dynamics starting in Autumn Quarter, 2015. Potential projects could include field-based research, laboratory-based research, and modeling, or a combination of all three. Submit application by: **31 December 2014** for priority consideration.

Details at: [http://www.iufro.org/download/file/16695/5545/nb-uni-washington-multiple-assistantships\\_doc/](http://www.iufro.org/download/file/16695/5545/nb-uni-washington-multiple-assistantships_doc/)

### Obituaries

We are sad to inform you that IUFRO Honorary Member **Marten M.G.R. Bol** died on 16 November 2014 in Arnhem, The Netherlands. Marten Bol served as Chairman of IUFRO Subject Group S3.02 Operational Methods in the establishment and treatment of stands from 1972-76 before he became Deputy Coordinator of Division 3 and then Coordinator of Division 3 until 1987. We would like to express our sincere condolences to his family and friends.

It is with great sadness that we have learned that **David Andrew Harcharik** passed away on December 3, 2014. He served as Assistant Director-General and Head of the FAO Forestry Department and eventually as Deputy Director-General of the Food and Agriculture Organization (FAO) of the United Nations until his retirement in 2007. Prior to joining FAO, David Harcharik served in the US Forest Service. Under his leadership in FAO, the precursor to the present Collaborative Partnership on Forests, of which IUFRO is a member, was set up. His great support to IUFRO and his strong dedication to forestry and forest research will be remembered by many IUFRO colleagues. We would like to express our deepest sympathy to his family and friends.

### Publications

#### Newsletter of IUFRO 9.01.03

Extension Knowledge Exchange  
Reflections on the 2014 IUFRO World Congress, Salt Lake City. <http://www.iufro.org/science/divisions/division-9/90000/90100/90103/publications/>

#### Multiaged Silviculture

##### Managing for Complex Forest Stand Structures

By Kevin O'Hara (published by Oxford University Press)

This book presents the latest scientific and management information on multiaged silviculture, an emerging strategy for managing forestry systems worldwide. Developing multiaged management strategies for complex forest ecosystems represents a global challenge to successfully integrate available science with sustainable management practices.

[http://global.oup.com/localecatalogue/cls\\_academic/?i=9780198703075](http://global.oup.com/localecatalogue/cls_academic/?i=9780198703075)

#### Sustainable Development Goals and forests:

A summary of UN Open Working Group debates and country reflections

The UN's Open Working Group (OWG) proposed draft sus-

tainable development goals (SDGs) in July 2014. This report summarizes some of the positions put forward by countries during the debates on forests in the meetings of the OWG, together with reflections from a number of countries on the OWG process after its conclusion.

Download here: <http://pubs.iied.org/G03846>

#### The Role of Mangroves in Fisheries Enhancement

A new study by Wetlands International, The Nature Conservancy and the University of Cambridge, concludes that mangrove conservation and restoration in areas close to human populations will render the greatest return on investment with respect to enhancing fisheries. For more information, visit the publications section of:

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

#### Proceedings

Find proceedings from IUFRO meetings:

<http://www.iufro.org/publications/proceedings/>

#### 2014 IUFRO Forest Tree Breeding Conference

25-29 August 2014, Prague, Czech Republic, IUFRO 2.04.02, 2.02.07, 2.02.11. 2014. 92 Pages. ISBN 978-80-213-2471-8

<http://www.iufro.org/publications/proceedings/proceedings-meetings-2014/#c21357>

#### Woody Plant Production Integrating Genetic and Vegetative Propagation Technologies

9-12 September 2014, Vitoria-Gasteiz, Spain. IUFRO 2.09.02. 2014. 230 pages

<http://www.iufro.org/publications/proceedings/proceedings-meetings-2014/#c21358>

#### XI Seminar on Remote Sensing and GIS applied to Forestry Engineering

14-16 October 2014, Curitiba/Paraná, Brazil. IUFRO 4.02.05. Language: English/Portuguese. 2014. 894 pages.

<http://www.iufro.org/publications/proceedings/proceedings-meetings-2014/#c21359>

#### Joint 7.03.14 4th MEDINSECT meeting, 7.03.06 "Integrated Management of Forest Defoliating Insects" and 7.03.01 "Cone and seed insects" meeting

9-14 April 2014, Antalya, Turkey, IUFRO 7.03.01, 7.03.06, 7.03.14. 2014. 110 pages

<http://www.iufro.org/publications/proceedings/proceedings-meetings-2014/#c21357>

#### CAB Reviews invites ideas of exciting themes to cover in 2015!

Dear IUFRO scientists!

CAB Reviews is a journal covering agriculture, global health, nutrition, natural resources and veterinary science. If you know of any important emerging topics or key issues facing your area, and authors that might consider writing on them, **please send them to John Parrotta at <jparrotta(at)fs.fed.us> by 15 January 2015**, who will collect your suggestions and forward them to CAB.

Many thanks!

## IUFRO Meetings

Search our online calendar for a full list of meetings!  
<http://www.iufro.org/events/calendar/current/>  
Find non-IUFRO meetings on the IUFRO Noticeboard!  
<http://www.iufro.org/discover/noticeboard/>  
Also search for forest-related events in GFIS at:  
<http://www.gfis.net>

21-23 Apr 2015

### **Forest Machine Technology Conference (FMTC)**

Montreal, Canada

IUFRO [3.01.00](#)

Contact: Jean-Francois Gingras,  
jean-francois.gingras(at)fpinnovations.ca  
<http://fmtc.fpinnovations.ca/>

6-9 May 2015

### **Forestry: Bridge to the Future**

Sofia, Bulgaria

IUFRO [1.00.00](#), [4.00.00](#)

Contact: Milko Milev, m\_milev(at)abv.bg  
<http://www.iufro.org/science/divisions/division-1/10000/activities/>

24-29 May 2015

### **7th International Boreal Research Association Conference: IBFRA2015**

Rovaniemi, Finland

IUFRO [8.01.06](#), [1.01.01](#)

Contact: Raisa Mäkipää, raisa.makipaa(at)metla.fi  
<http://www.ibfra2015.org/>

8-12 Jun 2015

### **Tree Biotechnology 2015 Conference: Forest: the importance to the planet and society**

Florence, Italy

IUFRO [2.04.06](#)

Contact: info(at)treebiotech2015.it  
<http://www.iufro.org/science/divisions/division-2/20000/20400/20406/activities/>

19-22 Jul 2015

### **38th COFE Annual Meeting "Engineering Solutions for Non-industrial Private Forest Operations"**

Lexington, KY, United States

IUFRO [3.00.00](#)

Contact: Marco Contreras, marco.contreras(at)uky.edu  
<http://cofe.ca.uky.edu/>

23-30 Aug 2015

### **Sustaining Ecosystem Services in Forest Landscapes – Concepts, Research, and Applications**

Tartu, Estonia

IUFRO [8.01.02](#)

Contact: Sandra Luque, sandra.luque(at)irstea.fr  
<http://iufrole2015.to.ee/>

6-11 Sep 2015

### **12th International Christmas Tree Research and Extension Conference**

Honne, Norway

IUFRO [2.02.09](#)

Contact: Venche Talgø, ctire2015(at)bioforsk.no  
<http://www.iufro.org/science/divisions/division-2/20000/20200/20209/activities/>

9-11 Sep 2015

### **Wilder By Design? – Managing Landscape Change and Future Ecologies**

Sheffield, United Kingdom

IUFRO [9.03.00](#), IUFRO [9.03.01](#)

Contact: Christine Handley, info(at)hallamec.plus.com  
<http://www.iufro.org/science/divisions/division-9/90000/90300/90301/activities/>

28 Sep-2 Oct 2015

### **Population Dynamics and Integrated Control of Forest Defoliating and Other Insects**

Sopot, Poland

IUFRO [7.03.06](#), [7.03.07](#), [7.03.13](#)

Contact: Lidia Sukovata, iufro.poland(at)gmail.com  
<http://forestinsects.org/sopot/>

12-18 Oct 2015

### **14th IUFRO Conference on Root and Butt Rot of Forest Trees**

Antalya/Fethiye/Bodrum, Turkey

IUFRO [7.02.01](#)

Contact: H. Tuğba Doğmuş-Lehtijarvi,  
iufro2015(at)sdu.edu.tr  
<http://ormanweb.sdu.edu.tr/iufro2015/>

21-23 Apr 2016

### **Perception – Prediction – Action: Managing risk in uncertain times**

Freiburg, Germany

IUFRO [4.04.07](#)

Contact: David Gray, david.gray(at)nrcan-rncan.gc.ca  
<http://www.iufro.org/science/divisions/division-4/40000/40400/40407/activities/>

## Other Meetings

12 Mar 2015

### **European i-Tree Conference**

Alnarp, Sweden

Swedish University of Agricultural Sciences (SLU)  
<http://www.i-tree.se/>

26-28 Mar 2015

### **Landscape Wilderness and the Wild**

Newcastle University, UK

School of Architecture, Planning and Landscape at Newcastle University  
<http://www.ncl.ac.uk/apl/news/events/thewild>

13-15 Apr 2015

### **8th ANZIF Conference: Beyond Tenure - Managing Forests across the Landscape**

Creswick, Victoria, Australia

<http://www.forestryconference.org.au/>

7-11 Sep 2015

### **XIV World Forestry Congress**

Durban, South Africa

FAO

**Call for events now open:** Submit your event application before **27 February 2015!**  
<http://www.fao.org/forestry/wfc/88005/en/>