



IUFRO Regional Congress for Asia and Oceania 2016

Forests for Sustainable Development: The Role of Research

Beijing, China October 24 - 27, 2016



The IUFRO Regional Congress for Asia and Oceania 2016 aims at reaching a common understanding about the status and trends of forests and the consequent research needs towards sustainable forestry development under such changes. It also aims at generating research synergies for well-informed policy and decision making to meet the forest governance and management demands in the transition period.

Visit: <http://www.iufro-ao2016.org/en/>

January 31: Deadline session proposal submission

- March 15: Notification of acceptance of session proposals
- April 1: Call for abstracts (papers, presentations and posters)
- May 15: Abstract submission deadline
- July 15: Notification of abstract acceptance (papers, presentations and posters)
- July 31: Early bird registration deadline
- Oct 24-27: THE CONGRESS, Beijing, China**

Mechanized and Efficient Silviculture

Report by Timo Saksa, Deputy Coordinator of IUFRO Research Group [3.02.00](#)

The workshop on "Mechanized and efficient silviculture" took place from November 25-26, 2015 at the Natural Resources Institute (Luke), Suonenjoki Research Unit, Finland. It attracted 28 participants from Estonia, Finland, Latvia, Lithuania, and Sweden. This OSCAR Workshop (Nordic Forest Research SNS/Operating Systems for Centre of Advanced Research 2011-2015) was organized jointly by Luke and the Latvian State Forest Research Institute *Silava*, and co-sponsored by IUFRO Research Group [3.02.00 Stand establishment and treatment](#). (<http://www.metla.fi/tapahtumat/2015/oscar-workshop/programme.htm>)

The main objectives of the workshop were to present ongoing research related to mechanized silviculture in the Nordic and Baltic countries and to discuss future research needs. State-of-the-art reports about mechanized silviculture in Sweden and Finland were delivered. The Swedish review covered topics such as: inverting; interface from nursery to planting machine; feeding of seedlings in planting device; identification of planting spots and obstacles as well as planting device development without compaction. The Finnish contribution focused on mechanized planting and young stand management. Finally, the differences between the Swedish and Finnish Scots pine management cultures were discussed.

Ongoing research projects in forest regeneration, drainage and management of young stands in the Baltic countries were also presented. An overview of the management of Latvia's state forests was followed by a state-of-the-art review of the ongoing research activities in mechanization of silviculture in Latvia. In addition, the work productivity of wood ash forest fertilization was addressed. Further



Workshop participants in a mechanically operated young pine stand. (Photo by Ville Kankaanhuhta, Luke)

topics included forest regeneration and young stand management in Estonia, and SeedPAD, a new and efficient Scots pine regeneration method in Northern Sweden. New ways of young stand management were showcased with a special focus on the productivity of the Vimek harvester and forwarder, and the Fixteri FX15a small-tree bundlers, whose work processes and productivity in early pine dominated thinnings were discussed. An overview of the evolution of innovative systems for small diameter tree harvest in Sweden and information on biocontrol methods against hardwood sprouting using *Chondrostereum purpureum* rounded off the program.

At the workshop the need for further Nordic-Baltic co-operation was strongly emphasized. Co-operation in research activities as well as in the dissemination of new research findings and the deployment of innovative methods were widely discussed.

Workshop proceedings will be published in the beginning of 2016. The next workshop on silvicultural technology will be held in Umeå, Sweden, in May, 2016.

All about Forest Operations Engineering and Management - IUFRO Division 3 Podcasts

The aim of the IUFRO Division 3 Podcast series is to share research and practical experiences of individual research scientists, forest practitioners and students in the fields of forest operations engineering and management. The podcasts also capture the knowledge of global leaders and experts on emerging research trends, on-going challenges and potential solutions in their fields.

Find all the episodes on the Podcast Feed at <http://bit.ly/1jAbzeQ>

The Division 3 Podcast series is now also available on iTunes itunes.apple.com/us/podcast/division-3-podcast/id1062022963 and can be subscribed on smart phones!

Conservation of Forest Genetic Resources in Siberia

Report by Konstantin V. Krutovsky, Coordinator of IUFRO 2.02.00 - Conifer breeding and genetic resources

The 4th International Conference on Conservation of Forest Genetic Resources in Siberia (<http://conf.ict.nsc.ru/cfgrs2015>) was held on August 24-29, 2015 at the forest tree improvement facilities of the Altai Region in Barnaul, Russia. The meeting continued the good tradition established by the previous conferences held in Barnaul in 2007, in Novosibirsk in 2009 and in Krasnoyarsk in 2011.

The conference mainly aimed at developing an efficient scientific strategy for the protection and sustainable use of forest genetic resources in Siberia, the Ural Mountains and the Far East. 76 participants from 11 countries representing 65 research organizations attended; 68 oral presentations were made and 110 abstracts were published in Russian and English.

Discussions focused primarily on the following themes:

- Theoretical and methodical problems of research, protection and sustainable use of forest genetic resources.
- Structure and dynamics of population gene pools, "relic" populations in the refugium area.
- Strategy of forest genetic conservation under global climate changes and anthropogenic effects.
- Selection objects and gene pool conservation: current state, genetic passportization system, selection of "elite", regionalization of seed sources (seed zoning).
- Genetics of resistance, tolerance, decorative and other traits; methods of breeding; breeding for wood productivity, tolerance etc.; introduction of new forest species.
- Conceptualization of national program on protection and sustainable use of forest genetic resources in Russia.

The conference was timely and important due to the huge biospheric role that Siberian boreal forest plays in global climate regulation and biogeochemical cycles. Despite this significant role there is still insufficient knowledge about the population genetic structure of the Siberian boreal forest and how it is affected by wildfires, anthropogenic effects (pollution, logging, etc.) and global climate change.

Significant research studies and results were presented in the plenary and session talks and by means of posters. These findings are very important for the conservation of forest genetic resources in Siberia in particular, and of bo-



Trip to the regional Altai Forest Seed Breeding Center "Altailes"
(Photo provided by Konstantin Krutovsky)

real forests in general. Large-scale national and international population genetic studies of the main Siberian forest conifer species using DNA markers were presented.

Whole de novo genome sequencing of Siberian stone pine and Siberian larch – the most important Siberian boreal forest conifer species - has begun at the Siberian Federal University (Krasnoyarsk, Russia) together with the N.I. Vavilov Institute of General Genetics (Moscow, Russia) and University of Göttingen (Göttingen, Germany).

It was concluded that new approaches based on the synthesis of traditional and modern molecular genetics and genomics methods are needed to develop efficient conservation and sustainable management programs, to protect and monitor the forest genetic potential and at the same time to increase forest productivity and resilience, including plantation forests.

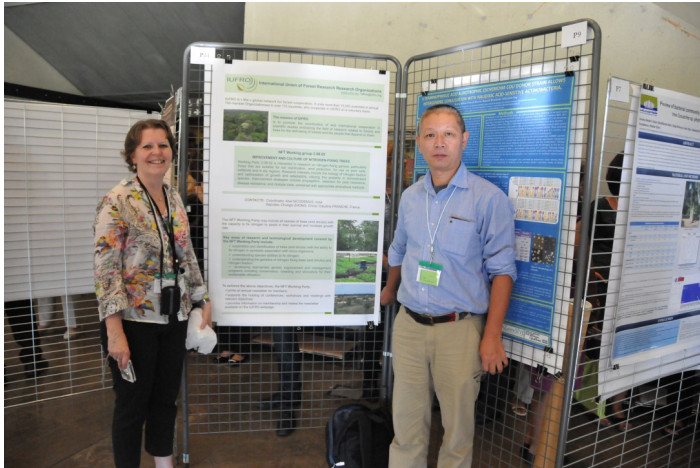
Conference proceedings and selected papers will be published in a special issue of the Siberian Journal of Forest Science (<http://sibjforsci.com/>). The next meeting will be held in two years tentatively in Gomel, Belarus.

Find further information at:
<http://www.iufro.org/science/divisions/division-2/20000/20200/activities/>

18th International Meeting on Frankia and Actinorhizal Plants

Report by Abel Nicodemus, Coordinator, IUFRO WP [2.08.02](#)

The meeting on 25-27 August 2015 in Montpellier, France, was organized by Didier Bogusz and Claudine Franche (Deputy Coordinator, IUFRO WP 2.08.02), IRD senior scientists from the research unit DIADE, and Philippe Normand, CNRS senior scientist from the Laboratory of Ecologie Microbienne in the University Lyon 1.



Claudine Franche and Zhong Chonglu, Deputy Coordinators of the WP 2.08.02, with the poster presentation highlighting the activities of the Working Party. (Photo provided by Abel Nicodemus)

The event attracted more than 80 scientists belonging to 17 different nationalities. The program was divided into four sessions:

- 1) Frankia physiology and genomic approaches;
- 2) Actinorhizal plants physiology & and genomic approaches;
- 3) Symbiotic signalling and functioning of actinorhiza;
- 4) Ecology and contribution of actinorhizal plants to soil productivity and rehabilitation.

The wide diversity of oral and poster contributions on these different scientific aspects informed about the Frankia genomes and the identification of key genes involved in the symbiotic process with Frankia, or contributing to abiotic stress tolerance.

Participants from southern countries illustrated the value of several actinorhizal plants in Asia and Africa in the context of rehabilitation of degraded soils or contribution to soil fertility using agroforestry technologies.

The involvement and active participation of young scientists and students was very promising for the future of this scientific community. Several valuable consequences are expected from this meeting, such as the establishment of new partnerships, the publication of a special issue in the journal *Symbiosis*, and the creation of a network dedicated to actinorhizal plants. The activities and contributions of IUFRO Working Party 2.08.02, *Improvement and Culture of Nitrogen-fixing Trees* (<http://www.iufro.org/science/divisions/division-2/20000/20800/20802/>) were also highlighted during the meeting.

Publications

IUFRO Occasional Paper 30 - *Creating and Sharing New Knowledge through Joint Learning on Water Governance and Climate Change Adaptation in Three Latin American Model Forests: The EcoAdapt Case*

By Kees Prins, Alejandra Cáu Cattán, Nataly Azcarrúnz, Alejandra Real, Lorena Villagron, Grégoire Leclerc, Raffaele Vignola, Mariela Morales, Bastiaan Louman

Published in December 2015, ISBN 978-3-902762-51-1

This Occasional Paper presents the results of the EcoAdapt Project, a joint undertaking by four research and five civil society organizations from Europe and Latin America.

The underlying principle in the EcoAdapt Project is that all knowledge is valuable, and that both researchers and local actors benefit from adopting a knowledge culture based on joint learning. Researchers learn how to tailor their scientific problem framing, methods, analysis and presentation of results to the context of their counterparts. The project aimed at action research to enhance local communities' ownership and implementation of innovative solutions for adaptation of the landscape and people to climate change.

For more information and access to the document, visit: <http://bit.ly/1TX5aau>

IUFRO Proceedings

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

International Conference ICWSE 2015: Wood Science and Engineering in the Third Millennium - Volumes 1 and 2

Edited by Lidia Gurau, Mihaela Campean and Mihai Ispas (ISSN 1843-2689)

5-7 November 2015, Brasov, Romania
IUFRO 5.00.00, 5.04.00

All papers selected for oral presentations will be included in a special issue of PRO LIGNO:

<http://www.proligno.ro/en>

Effects of ungulate browsing on forest regeneration and silviculture - Special implications for *Abies alba* (European silver fir)

Conference held on 14-16 October 2015 in Birmensdorf, Switzerland, involving IUFRO Units 1.01.09, 1.01.12.

Link to online file:

http://www.iufro.org/download/file/22387/5738/10109-10112-birmensdorf15-abstracts_pdf/

Special Issue of *Forests* on "Incentives and Constraints of Community and Smallholder Forestry"

Wil de Jong, Pia Katila, Glenn Galloway and Pablo Pacheco from IUFRO-WFSE (*Special Project on World Forests, Society and Environment*) are guest editors for this Special Issue.

The Special Issue brings together case studies of communities that have been subjected to specific efforts for promoting community forestry, or communities that have adapted to new opportunities for transforming forest management activities as a strategy for improving livelihoods.

The Special Issue includes case studies from tropical Latin America, Africa, and Asia. For more information and to read already published papers visit:

http://www.mdpi.com/journal/forests/special_issues/community_smallholder

Special Issue of *International Forestry Review* on "Shifting global development discourses: Implications for forests and livelihoods"

Twenty articles are currently being developed for this Special Issue. It aims at increasing the understanding of the scope and horizon of the new environmental development discourses and how they may influence forestry and forest-related livelihoods. The Guest Editors for this Special Issue are Pia Katila, Wil de Jong, Glenn Galloway and Pablo Pacheco from IUFRO-WFSE.

<http://www.iufro.org/science/special/wfse/>

Retirement Wishes for Sim Heok Choh

Dr. Sim Heok Choh, Executive Secretary of APAFRI (Asia Pacific Association of Forestry Research Institutions), retired at the end of 2015. In this capacity he had also served as the Regional Coordinator for Asia Pacific of IUFRO's *Special Programme for Development of Capacities* for more than 10 years. Numerous jointly organized training workshops and scientific meetings have greatly strengthened the ties between APAFRI and IUFRO. For all his work and commitment during the many years in this position we would like to convey our heartfelt thanks and wish Dr. Sim all the best for his future endeavors.



On the occasion of the Workshop on Systematic Review in Forest Science held at FRIM in Malaysia in November 2015, Dr. Sim (left) was presented an IUFRO Certificate of Appreciation by Dr. Michael Kleine. (Photo by Gu Hui-yan)

Congratulations to Lisa Sennerby Forsse

Professor Lisa Sennerby Forsse PhD was elected President of the Royal Swedish Academy of Agriculture and Forestry (KSLA) for the period 2016–2019. Senior consultant Björn Sundell PhD was elected Vice-President.

Former IUFRO Division 1 Coordinator (1997–2000) and IUFRO Officeholder Lisa Sennerby Forsse was Director of Research at the Forestry Research Institute, Secretary General of the Swedish Research Council Formas, and the Headmaster of SLU during 2006–2015. She is active in several international and national committees and boards focusing on issues of climate change, sustainable food production and forestry.

Position Announcements

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

Head (m/f) of the Forest Resources and Management Research Unit

Organizations: Swiss Federal Institute for Forest, Snow and Landscape Research (WSL)

Location: WSL is located in Birmensdorf, Switzerland.

Submit application by: not indicated

Details at: http://www.iufro.org/download/file/22404/5545/nb-wsl-RU-leader-Forest-Ressources_EN_pdf/

Assistant or Associate Professor of Remote Sensing & Geospatial Analysis

Organization: School of Forest Resources and Environmental Science, Michigan Technological University (MTU)

Location: Main Campus; Houghton, MI, USA

Submit application by: Review of applications will begin February 1, 2016 and will continue until an appropriate candidate is chosen.

Details at: <https://www.jobs.mtu.edu/postings/3812>

Assistant or Associate Professor of Forest Biomaterials

Organization: School of Forest Resources and Environmental Science, Michigan Technological University (MTU)

Location: Main Campus; Houghton, MI, USA

Submit application by: Review of applications will begin January 31, 2016 and will continue until an appropriate candidate is chosen.

Details at: <https://www.jobs.mtu.edu/postings/3819>

Fellowships

<http://www.iufro.org/discover/noticeboard/fellowships-scholarshipsresearch-funding/>

Doctoral fellowship (PhD) at UBC Department of Forest Resources Management

A full 4 year scholarship is offered to the successful candidate by the Department of Forest Resources Management, Faculty of Forestry, University of British Columbia (UBC)

Location: Vancouver, BC Canada

Start date: 1 September 2016

Submit application by: 25 February 2016

Details at: <http://fresh.forestry.ubc.ca/join-fresh/>



For more information contact: The Academy Secretary General and Managing Director Carl-Anders Helander, carl-anders.helander(at)ksla.se

Lisa Sennerby Forsse and Björn Sundell, the new President and Vice-President of KSLA

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>

15-18 Feb 2016

Ceratocystis in Tropical Hardwood Plantations

Yogyakarta/Sumatra/Pekanbaru Riau, Indonesia

IUFRO [2.08.07](#)

Contact: Wickneswari Ratnam, wicki(at)ukm.edu.my
<http://www.iufro.org/science/divisions/division-2/20000/20800/20807/activities/>

18 Feb 2016

SuFoRun Seminar – Models and Decision Support Tools for Integrated Forest Policy Development under Global Change

Lisbon, Portugal

IUFRO [4.04.04](#)

Contact: José G. Borges, joseborges(at)isa.ulisboa.pt
<https://icdsst2016.wordpress.com/>

18-20 Feb 2016

Indian Ecological Society Conference 2016: Natural Resource Management - Ecological Perspectives

Jammu, India

IUFRO [1.03.00](#), [TF Sustainable Forest Biomass Network](#)

Contact: Sanjeev Chauhan, chauhanpau(at)rediffmail.com
<http://iesconf.com/>

22-26 Feb 2016

Partner Event at Asia-Pacific Forestry Week 2016: Global Significance of Teak - Present and Future

Pampanga, Philippines,

IUFRO [5.06.02](#)

Contact: P. K. Thulasidas, thulasidas(at)kfri.org
<http://www.iufro.org/science/divisions/division-5/50000/50600/50602/activities/>
<http://apfw2016.dentr.gov.ph/index.php>

25-27 Feb 2016

11th Biennial Conference on University Education in Natural Resources

Stevens Point, WI, United States

IUFRO [6.09.00](#)

Contact: Miko Rekola, mika.rekola(at)helsinki.fi
<https://www.uwsp.edu/conted/ConfWrkShp/Pages/BCUENR-Home.aspx>

16-18 Mar 2016

Forest Policies in the Baltic and CEE Region

Göttingen, Germany

IUFRO [9.05.04](#)

Parallel session at the 1st Joint Conference of Forest Policy Science of German-speaking and Nordic countries; scholarships for young scientists from Estonia, Latvia, Lithuania, Poland, Russia

Contact: Vilis Brukas, vilis.brukas(at)slu.se

17-22 Apr 2016

European Geosciences Union General Assembly 2016: ERE3.7 Sustainable Biomass for Raw Materials, Energy and GHG Mitigation

Vienna, Austria

The [IUFRO TF Sustainable Forest Biomass Network](#) will have a session there (date to be announced soon)

Contact: Viktor Bruckman

Viktor.Bruckman(at)oeaw.ac.at

<http://www.iufro.org/science/task-forces/forest-biomass/>

18-20 May 2016

AgroPine 2016 - 2nd International Meeting on Mediterranean Stone Pine for Agroforestry

Oeiras, Portugal

IUFRO [1.08.00](#)

Contact: Luis Fontes, luisfontes(at)isa.ulisboa.pt
<http://www.iufro.org/science/divisions/division-1/10000/10800/activities/>

11-15 Jul 2016

Climate-induced Range Shifts in Boreal Forest Pests and Their Ecological, Economic and Social Consequences

Baie-Comeau, Sept-Iles, Quebec, Canada

IUFRO [8.01.06](#)

Contact: Pierre Godbout, pierre.godbout(at)canada.ca
<http://www.cef-cfr.ca/index.php?n=Colloque.IUFROQuebec2016>

29 Aug-1 Sep 2016

Forest Communication Meeting

Portland, Oregon, USA

IUFRO [9.01.02](#)

Jointly with UNECE-FAO Forest Communicators' Network
Contact: Cindy Miner, clminer(at)fs.fed.us

29 Aug-2 Sep 2016

Forests, Water and Soils: Exploring the Importance of their Linkages Session at EcoSummit 2016

Montpellier, France

[IUFRO Task Force](#) on Forests, Soil and Water Interactions

Contact: Juan A. Blanco, juan.blanco(at)unavarra.es
<http://www.iufro.org/science/task-forces/forests-soil-water/activities/>

4-10 Sep 2016

Disease/Environment Interactions in Forest Decline - Integrated Ecosystem Approach

Perth, Australia

IUFRO [7.02.06](#)

Contact: Giles Hardy, G.Hardy(at)murdoch.edu.au
Thomas L. Cech, thomas.cech(at)bfw.gv.at
<http://www.iufro.org/science/divisions/division-7/70000/70200/70206/activities/>

19-23 Sep 2016

Development and Application of Vegetative Propagation Technologies in Plantation Forestry to Cope with a Changing Climate and Environment

La Plata/Buenos Aires, Argentina

IUFRO [2.09.02](#)

Contact: Sandra Sharry, ssharry(at)gmail.com
<http://www.iufro.org/science/divisions/division-2/20000/20900/20902/activities/>

21-23 Sep 2016

SILVA Network Annual Conference: Forest Science Education: Self-study and Activation of the Learner
IUFRO [6.09.00](#)

Tartu, Estonia

Contact: Miko Rekola, mika.rekola(at)helsinki.fi
<http://www.iufro.org/science/divisions/division-6/60000/60900/activities/>

21-24 Sep 2016

Abies 2016: The 15th International Conference on Ecology and Silviculture of Fir - Bringing Knowledge on Fir Species Together

Sapporo, Japan

IUFRO [1.01.09](#)

Contact: Toshiaki Owari, owari(at)uf.a.u-tokyo.ac.jp
Andrej Bončina, Andrej.Boncina@bf.uni-lj.si
<http://www.uf.a.u-tokyo.ac.jp/hokuen/Abies2016/>

25-29 Sep 2016

Increasing Capacity for Program Delivery through Knowledge Exchange Networks and Peer-to-peer Learning

Kenora, Ontario, Canada

IUFRO [9.01.03](#)

Contact: Janean Creighton, Janean.Creighton(at)oregon-state.edu
<http://www.iufro.org/science/divisions/division-9/90000/90100/90103/activities/>

27-30 Sep 2016

World Congress Silvo-Pastoral Systems 2016 "Silvo-Pastoral Systems in a Changing World: Functions, Management and People"

Évora, Portugal

IUFRO [8.01.02](#)

Contact: Sandra Luque, sandra.luque(at)irstea.fr
<http://www.silvopastoral2016.uevora.pt/>

4-6 Oct 2016

International and Multi-disciplinary Scientific Conference: "Forest Policy and Governance: Analyses in the Environmental Social Sciences"

Bogor, Indonesia

IUFRO [9.00.00](#), [9.05.00](#)

Contact: Lukas Giessen, lgiessen(at)gwdg.de
<http://www.iufro.org/science/divisions/division-9/90000/90500/activities/>

17-22 Oct 2016

BRainS2016 - Belum Rainforest Summit 2016: International Conference on Conservation and Sustainable Use of Tropical Rainforests 2016

Pulau Banding, Gerik, Perak, Malaysia

Co-sponsored by IUFRO

Contact: Abdul Rashid Ab. Malik, rashid(at)belumrainforestsummit2016.com
<http://www.belumrainforestsummit2016.com/>

24-27 Oct 2016

IUFRO Regional Congress for Asia and Oceania Forests for Sustainable Development: The Role of Research

Beijing, China

Deadline for session proposals: 31 January 2016
<http://www.iufro-ao2016.org/en/>

24-28 Oct 2016

All-Division 8 Conference: Forest Environment under Changing Climates and Societies

Beijing, China

IUFRO [8.00.00](#)

Contact: Jean-Michel Carnus, Jean-Michel.Carnus(at)pierroton.inra.fr
Shirong Liu, liusr(at)caf.ac.cn
<http://www.iufro.org/science/divisions/division-8/80000/>

28 Nov-2 Dec 2016

Congreso Latinoamericano IUFRO de Ecología del Paisaje & 2º Congreso Latinoamericano de IALE

Temuco, Chile

IUFRO [8.01.02](#)

Contact: Guillermo Martinez Pastur, gpastur(at)conicet.gov.ar
<http://www.iufrole2016.ufro.cl/>

12-16 Jun 2017

IUFRO All-Division 5 Forests Products Conference

Vancouver, Canada

IUFRO [5.00.00](#)

Contact: Pekka Saranpää, Pekka.Saranpaa(at)metla.fi
<http://www.iufro.org/science/divisions/division-5/50000/>

IUFRO 125th Anniversary Congress

<http://iufro2017.com/>

SAVE THE DATE:

19 - 22 September 2017

Freiburg, Germany



Other Meetings

10 Feb 2016

Forest Policy Day at the Winter Conference of the EcoSocial Forum

Vienna, Austria

Ökosoziales Forum, <http://www.oekosozial.at>

Among the speakers/panelists: Jerry Vanclay, Southern Cross University (Australia) and IUFRO Task Force Coordinator; Daniela Kleinschmit, Freiburg University (Germany) and IUFRO Division Coordinator; Ulrike Pröbstl-Haider, Boku (Austria) and IUFRO Research Group Coordinator
bit.ly/1StSw56

22-26 February 2016

Asia-Pacific Forestry Week (APFW) 2016: Growing Our Future!

Fontana Convention Center, Clark Freeport Zone,

Pampanga, Philippines

Organized by FAO

Contact: AP-Forestry-Week(at)fao.org
<http://www.fao.org/about/meetings/asia-pacific-forestry-week/en/>

31 May-4 Jun 2016

19th European Forum on Urban Forestry Conference : Urban Forests for European Resilient Cities

Ljubljana, Slovenia

Contact: efuf2016(at)gozdis.si
<http://efuf2016.gozdis.si/>