

Mediterranean Pines under a Global Change Scenario: Threats and Adaptive Solutions

By Teresa Fonseca and Felipe Bravo, IUFRO 1.01.10

The IUFRO Meeting "Global Change and Mediterranean Pines: Alternatives for Management" that took place from 10 to 12 February 2010 in Palencia, Spain, offered an excellent platform for international debate on the ecology and silviculture of Mediterranean pines with a focus on climate change, its potential effects and adaptive solutions.

Mediterranean pine forests play an important economic role on the local and regional levels. They provide timber and non-wood products as well as non-paid benefits, such as the uptake and storage of CO₂. However, threats such as fire, drought and water stress might put the valuable legacy associated to these forest resources at risk. Seed production and seedling establishment for naturally regenerated pine stands may already be endangered for some of the Mediterranean species.

In addition, under a global change scenario, changing environmental conditions may well lead to irreversible consequences for the spatial distribution of pine forests and for ecosystem dynamics. In order to be able to deal with this uncertainty, a better understanding of pine ecology and of genetic adaptive capacity of pine species response is needed. In this field research assumes a major role as it offers a strategy to cope with global changes by producing evidence of the behaviour of materials under unfavourable conditions like drought. It is therefore crucial to communicate the results from scientific experiments to policymakers and forest managers because different policies and silvicultural options might have to be adopted in an adaptive forest management context.



44-year-old Mediterranean maritime pine (*Pinus pinaster* Ait.) plantation in Palencia (northern Spain).
Photo by Celia Herrero.

The meeting contributed to a better understanding of the importance of pine ecosystems in the Mediterranean areas and of the major constraints and threats that these pine ecosystems are faced with nowadays or that are predicted to occur under a climate change scenario. Two technical visits to Scots pine stands allowed the participants to observe *in situ* issues addressed during the sessions, such as CO₂ ecosystem estimation and sustainable forest management practices. Information about the constraints that Mediterranean pine ecosystems face as well as the researchers' proposals to deal with the critical factors and the predictable changes will be published in a special issue of the Forest Systems (formerly Investigación Agraria: Sistemas y Recursos Forestales) journal.

<http://www.inia.es/forestsystems>

The Meeting was promoted by IUFRO Unit 1.01.10 - Ecology and silviculture of pine, and co-sponsored by IUFRO Units [2.02.13](#) - Breeding and genetic resources of Mediterranean conifers, and [4.01.00](#) - Forest mensuration and modelling. The event counted on the scientific support of the Sustainable Forests Management Research Institute UVA-INIA, and the technical collaboration of FAO Silva Mediterranea and EFI Mediterranean Regional Office-EFIMED. There were 63 participants from Spain, Portugal, France and Italy. Twenty voluntary oral presentations and a considerable number of posters were presented.

Abstracts are available for download from the [IUFRO Unit 1.01.10 webpage](#) and the Meeting webpage <http://www.research4forestry.eu>

For further details, contact:

Felipe Bravo Oviedo (fbravo@pvs.uva.es), Coordinator IUFRO Unit 1.01.10

Fulvio Ducci (fulvio.ducci@entecra.it), Coordinator IUFRO Unit 2.02.13

Teresa Fonseca (tfonseca@utad.pt), Deputy Coordinator IUFRO Unit 1.01.10



XXIII IUFRO World Congress

**23-28 August 2010, Seoul,
Republic of Korea**

On-line Registration now open!!!

<http://www.iufro2010.com/>

**Deadline for the early bird registration:
30 April 2010**

Presenting authors with accepted abstracts must register by 30 April 2010.

News story related to the IUFRO World Congress 2010: **Forestry is moving out of the country and into the cities**

"More than half the world's population now lives in cities and towns and more forests are coming under urban influence. As foresters we'd better make sure we're prepared to work in urban settings," says Professor Cecil Konijnendijk of the University of Copenhagen.

Urban forests, in addition to making cities more attractive, promote human health and well-being, sequester carbon, filter pollutants from the air, provide shade, reduce wind and flooding, improve urban microclimates and protect urban drinking water resources.

"Urban forests and trees are part of the solution to some of the big issues of the day," he says. "Think climate change, where urban vegetation can help cities adapt to higher temperatures, freak weather occurrences and the like; or trees producing food to help ease shortages in some developing countries."

"But", says Professor Konijnendijk, who will coordinate a session on promoting urban forest partnerships between scientists and communities at the 2010 IUFRO World Forestry Congress in Seoul, "we still lack knowledge about how trees grow in urban settings and what their optimum contributions are or can be in terms of the goods and services they provide."



Photo: Trees and parks make cities across the world more liveable and attractive. Example of a City park in Guangzhou, China. Photo by Cecil Konijnendijk.

"We need to find how to protect, design and develop them in a better way. We, as scientists, have to collaborate closely with those who plan and manage our urban forests," he says.

*For further information, contact:
Cecil Konijnendijk, [cck\(at\)life.ku.dk](mailto:cck(at)life.ku.dk)*

Read previous Congress related news stories at:
<http://www.iufro.org/media/iwc2010-news-stories/>

Assessment Report on International Forest Regime is Taking Shape

By Alexander Buck, GFEP Coordinator

The coordinating lead authors (CLAs) of the new [GFEP](#) assessment report met at the end of February in Singapore to refine the draft manuscripts of all chapters and discuss key messages emerging from the assessment.

The results of the assessment to date confirm that the forest regime involves a multitude of state and non-state actors, instruments and discourses that have shifted over time. The regime is trying to operate at many different levels and to take account of developments in a variety of other sectors where policy decisions will have an impact on forests. Yet, this complex 'mix' of elements also allows for cooperative relationships and positive regime interactions that can be nurtured by means of improved coordination, policy learning and structured participation.

The assessment report will provide concrete options and examples of how to capitalize on the complexity of the international forest regime. It will also trace the ways in which global forest governance architectures can influence domestic policy making in the direction of sustainability. The results of the assessment will be available in autumn 2010.



Participants of the GFEP Meeting at Lee Kuan Yew School of Public Policy in Singapore. Photo by Alexander Buck

Publications

Best REDD Scenario

By Janis Alcorn, CIFOR

Alliances of communities and their organizations in collaboration with governments and/or REDD investors offer an urgent opportunity for controlling the largest sources of carbon release from tropical deforestation. This REDD scenario opens a new path that entails recognizing and respecting the positive values of swidden and swiddening communities unappreciated in the past. When this path is not taken, REDD can threaten the forest as well as the livelihoods, food security, and rights of millions of forest-dependent peoples and communities. For further information, the brief "Best REDD Scenario" is available at:

<http://www.iufro.org/science/task-forces/human-well-being/publications/>

Legal Frameworks for REDD: Design and Implementation at the National Level

The final version of IUCN Environmental Policy and Law Paper No. 77, "Legal Frameworks for REDD: Design and Implementation at the National Level," first launched at Copenhagen COP 15/CMP 5 in December 2009, is available for download at the IUCN Environmental Law Centre (ELC) website below:

http://cmsdata.iucn.org/downloads/eplp_77.pdf

Paper copies are available by request from the ELC Secretariat at: [elcsecretariat\(at\)iucn.org](mailto:elcsecretariat(at)iucn.org)

First issue of EFI's EU FLEGT News

<http://news.efi.int/newsletter/view/efis-eu-flegt-news-february-march-2010>

The issue has been prepared by the EU FLEGT (Forest Law Enforcement, Governance and Trade) Facility of the European Forest Institute (EFI) with contributions from the FAO ACP FLEGT Support Programme.

Updates on common efforts of the EU and its partner countries and institutions to combat illegal logging and to implement the EU FLEGT Action Plan will be published every two months. The Newsletter will inform you on achievements in Voluntary Partnership Agreement (VPA) negotiations between the EU and different timber exporting countries. Furthermore, it will address FLEGT in the context of policy debates.

Subscription is possible at:

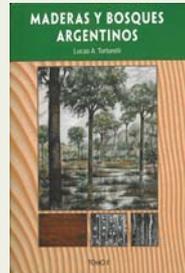
<http://news.efi.int/newsletter/subscribe>

Contact: Lena Yadlapalli, [lena.yadlapalli\(at\)efi.int](mailto:lena.yadlapalli(at)efi.int)

Armenia Tree Project

National Geographic news editor David Braun has released a profile of the Armenia Tree Project (<http://www.armeniatree.org>), on his blog Nat Geo News Watch. "Armenia has learned the hard way what it means for a country to lose its forests — and the huge backbreaking effort required to replant them. But in its struggle and determination to restore its trees, Armenia is an inspiration for the rest of the planet," writes Braun.

You can access the Nat Geo News Watch article, "How Trees Are Restoring Hope to Armenia," at the following link: <http://blogs.nationalgeographic.com/blogs/news/chiefeditor/2010/03/trees-restore-hope-to-armenia.html>



Maderas y Bosques Argentinos

2 volumes (Spanish)

by Lucas A Tortorelli

First published in 1956.

New edition 2009.

ISBN 978-987-9260-68-5

Pocket Book: Brazilian Forests at a Glance

2005-2009

Published by the Ministry of the Environment, Brazilian Forest Service. <http://www.florestal.gov.br>

4th in a Series of Classic German Forestry Books

"Beytrag zur teutschen holzgerechten Forstwissenschaft, die

Anpflanzung Nordamericanischer Holzarten, mit Anwendung auf teutsche Forste, betreffend"

By Friedrich Adam Julius von Wangenheim; originally published in 1787. ISBN: 978-3-941300-24-8

<http://www.verlagkessel.de>

Announcements

Two PhD research grants.

The Foundation for European Forest Research is offering two PhD scholarships up to 19 000 euros per annum with a travel allowance of 1 000 euros a year. The opportunities are open to all interested persons qualified to proceed with PhD studies at an internationally recognized university.

The grants are 'Metsähallitus-Grant 2010 for PhD studies' on the topic of "Sustainable use of forests for different purposes, including economical and recreational forest functions and biodiversity values", and 'Ponsse- Grant 2010 for PhD studies' on the topic of "Contribution of modern forest management technologies to sustainable and competitive forestry in Europe".

Deadline for application: 15 April 2010

http://www.efi.int/portal/news_events/press_releases/?id=236

Two Short Courses on Collecting and Processing Forest Inventory Data

Course 1: Collecting Forest Resources Data

Course 2: Processing Forest Inventory Data

Dili, East Timor; 2-13 August 2010

Contact: Teresa Fidalgo Fonseca, [tfonseca\(at\)utad.pt](mailto:tfonseca(at)utad.pt)

<http://www.iufro.org/science/divisions/division-1/10000/10100/10110/activities/>

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>

25-27 May 2010

People, Forests and the Environment: Coexisting in Harmony

Casablanca, Morocco
IUFRO [4.02.01](#), [8.00.00](#), [7.01.00](#), [1.00.00](#)
Contact: Mohammed Ellatifi, sylva.world@yahoo.fr
<http://www.sylvamonde.110mb.com/welcome.htm>

20-22 Jun 2010

64th Int'l Convention: Forest Products Society

Madison, Wisconsin, USA
IUFRO [5.00.00](#)
Contact: Julie Lang, conferences@forestprod.org
<http://www.forestprod.org/ic64/>

15-21 Aug 2010

IUFRO Tree Seed Symposium: "Recent Advances in Seed Research and *ex situ* Conservation"

Taipei, China-Taipei
IUFRO [2.09.03](#)
Contact: Chien Ching-Te, chien@tfri.gov.tw
http://www.tfri.gov.tw/enu/IUFRO-2010conservation/IUFRO_2010_Taiwan-index.htm

14-17 Sep 2010

Silvilaser 2010: 10th International Conference on LiDAR Applications for Assessing Forest Ecosystems

Freiburg i. Br., Germany
IUFRO [4.02.08](#)
Contact: Fabian Enßle, silvilaser2010@felis.uni-freiburg.de
<http://www.silvilaser.de>

20-14 Sep 2010

Structures and Processes of the Initial Ecosystem Development

Cottbus, Germany
IUFRO [1.06.00](#)
Contact: Reinhard Hüttel, huettel@gfz-potsdam.de
http://lsb-server.umwelt.tu-cottbus.de/MYRES_2010/myres4/index.html

23-26 Sep 2010

7th IUFRO Workshop on Uneven-aged Silviculture

Ljubljana, Slovenia
IUFRO [1.05.00](#)
Contact: Jurij Diaci, jurij.diaci@bf.uni-lj.si
<http://web.bf.uni-lj.si/go/uafm2010/>

27 Sep – 1 Oct 2010

Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management. Increasing Human Capacity for Global Human-Wildlife Coexistence

Estes Park, Colorado, United States
IUFRO [6.00.00](#)
Contact: Esther Duke, conference@warnercnr.colostate.edu
<http://warnercnr.colostate.edu/nrrt/hdfw/index.html>

6-8 Oct 2010

Mixed and Pure Forests in a Changing World 2010

Vila Real, Portugal
IUFRO [1.00.00](#), [4.00.00](#), [7.01.00](#)
Contact: Margarida Tomé, magatome@isa.utl.pt

Domingos Mendes Lopes, dlopes@utad.pt
<http://www.forestchange2010.utad.pt/>

27-29 Oct 2010

Fagus 2010

Varazdin, Croatia and Zala County, Hungary
IUFRO [1.00.00](#), [1.01.07](#)
Contact: Igor Kolar, igork@sumins.hr

Other Meetings

4-6 May 2010

Workshop on the Assessment of Forest Fire Risks and Innovative Strategies for Fire Prevention

Rhodes, Greece
Contact: fireprevention@usse.es
<http://www.iufro.org/discover/noticeboard/>

13-15 May 2010

Forestry: Bridge to the Future

Sofia, Bulgaria
University of Forestry of Sofia
Contact: Milko Milev, forconf2010@abv.bg
<http://ltu.jlsoft.eu/>

30 May – 3 Jun 2010

International Disaster and Risk Conference IDRC

Davos, Switzerland
Organized by Global Risk Forum, Davos
Contact: Astrid Heinrich, astrid.heinrich@grforum.org
<http://www.grforum.org>

2-7 Jul 2010

Euroscience Open Forum - ESOF 2010

Turin, Italy
Organized by Euroscience
<http://www.euroscience.org/esof-2010.html>

12-16 Jul 2010

5th International Conference on Environmental Science and Technology

Houston, Texas, USA
American Academy of Sciences
Contact: env-conference@AASci.org
<http://www.aasoci.org/conference/env/2010/index.html>

14-17 Jul 2010

International Conference on Biodiversity Conservation in Transboundary Tropical Forests

Quito, Ecuador
Contact: Hwan Ok Ma, rfm@itto.int
<http://www.cbd.int/forest/doc/Announcement-Quito-Conference-14-17-July-2010-en.pdf>

26-30 Jul 2010

International Workshop on Applying Sustainable Forest Management to Poverty Reduction: Strengthening the Multi-Stakeholder Approach within the UNFF

Accra, Ghana
Organized by the Major Groups participating in the UNFF
Contact: Lambert Okrah, lambert@ica-international.org

23-25 Nov 2010

International Conference on Forestry Education and Research for the Asia-Pacific Region

Manila, Philippines
College of Forestry and Natural Resources of the University of the Philippines Los Banos, on the occasion of its 100th anniversary.
Contact: Maricel A. Tapia; [Link to Conference Brochure](#)