

RESTORING FORESTS:

What Constitutes Success in the 21st Century?

October 14-16, 2014

LAFAYETTE, INDIANA, USA



SECOND CIRCULAR

CONGRESS

SCIENTIFIC PROGRAMME

WORK GUIDELINES

REGISTRATION

FEES

In 2011, we held the 1st Restoring Forests Congress in Madrid, Spain to address recent advances in forest restoration techniques and theory. Selected papers from this symposium were published in *New Forests* (Vol 33, Issues 5-6). This 2nd Congress will continue to communicate advances in these themes. Yet, we will also explore what constitutes restoration in the 21st Century by re-defining the scope of forest restoration and narrowing our vision of restoration success in relation to a realistic, achievable end result. This conference will also highlight the need to reinforce the role of genetics in forest restoration, especially in relation to re-defining species/provenance selection and seed zones in relation to global change.

The conference comprises oral presentations and panel sessions, as well as a field excursion. The oral presentation sessions include keynote speakers and voluntary presentation of papers with time designated for discussions. Each session will be introduced by a keynote speaker presenting an overview of the subject area of that session, followed by oral presentations and posters.

All oral sessions will be plenary sessions held in English.

PARTICIPATING IN THE CONFERENCE

Participants interested in presenting a communication or poster within the theme of the conference are invited to submit an abstract through the Restoring Forests website (www.restoringforestsuifro.org). Abstracts must be written in English, of no less than 300 words, but not exceeding one A4 page (including title, authors, and affiliations) before 16 June 2014. Style of presentation (oral/poster) will be assigned according to relevance of topic and/or authors' preferences. Presentations are, however, not compulsory for participation.

A selection of the communications presented will be published in a special issue of the international journal, *New Forests* (published by Springer).

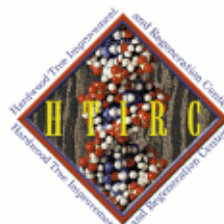
The website will be updated regularly with details regarding registration, call for papers, and the deadline for abstracts submission.

Abstract submission now open!

INFORMATION

www.restoringforestsuifro.org

Contact Us





IUFRO DIVISIONS AND UNITS

- 1.01.00 – Temperate and Boreal Silviculture
- 1.06.00 – Silviculture. Restoration of degraded sites
- 2.01.00 – Physiology and Genetics. Physiology
- 3.02.00 – Stand establishment and treatment

REGISTRATION FEES (US DOLLARS)

| | NON STUDENTS (\$) | STUDENTS (\$) |
|------------------------------------|-------------------|---------------|
| EARLY REGISTRATION (BEFORE SEP 15) | 300 | 200 |
| LATE REGISTRATION (AFTER SEP 15) | 400 | 300 |

The REGISTRATION FEE includes: welcome reception, gala dinner, lunches and breaks during the conference and field trip transport.

ORGANIZING COMMITTEE

- Douglass F. Jacobs.** Purdue University (USA)
- Juan A. Oliet.** Universidad Politécnica de Madrid (Spain)
- Charles H. Michler.** USDA Forest Service (USA)
- Robert D. Mangold.** USDA Forest Service (USA)
- Liz Jackson.** Purdue University (USA)

SCIENCE COMMITTEE

- James Aronson.** Center for Functional and Evolutionary Ecology, CNRS (France)
- Andreas Bolte.** Johann Heinrich von Thünen-Institute (Germany)
- James Bullock.** Center for Ecology and Hydrology (UK)
- Pablo Donoso.** Austral University (Chile)
- Simon Landhüsser.** University of Alberta (Canada)
- Palle Madsen.** University of Copenhagen (Denmark)
- Shaolin Peng.** South China Institute of Botany (Guangzhou, China)
- José M. Rey-Benayas.** Alcalá University (Spain)
- John Weber.** World Agroforestry Center (Mali)

INVITED SPEAKERS

| | |
|------------------------------|--|
| John Stanturf | Center for Forest Disturbance Science, US Forest Service, Athens, GA. USA |
| Adrian Newton | Conservation, Ecology and Environmental Science Group, Bournemouth University, Poole. UK |
| Ellen MacDonald | Department of Renewable Resources, Faculty of Agricultural, Life & Environmental Sciences, University of Alberta, Edmonton, AB. CANADA |
| Pedro Villar-Salvador | Life Sciences Department. Universidad de Alcalá. Madrid. SPAIN |
| Barbara Hawkins | Centre for Forest Biology, University of Victoria, Victoria, BC. CANADA |
| Susana Bautista | Department of Ecology, Universidad de Alicante, Alicante. SPAIN |
| John Pedlar | Great Lakes Forestry Centre, Forest Service, Natural Resources Canada, Sault Ste. Marie, ON. CANADA |
| Carlton Owen | President, U.S. Endowment for Forestry & Communities, Inc. Greenville, SC. USA |



THEMES AND TOPICS: SCIENTIFIC PROGRAMME

The overall theme of the Conference is *Restoring Forests - What Constitutes Success in the 21st Century?* The conference will be structured according to the following topics:

FOREST RESTORATION: OBJECTIVES, STRATEGIES, AND NEEDS

- Defining the scope of forest regeneration
- Public demand and trends in policy making for restoration
- Ecosystem services and natural capital
- Linking citizens to forest restoration, community-based restoration
- Advances in ecological theory affecting restoration strategies
- Prioritization: what should be restored first?
- Criteria and indicators for monitoring restoration success
- Evolving needs for restoration to counter impacts from industry or development

PRODUCING PLANT MATERIAL TO RESIST STRESS

- Promoting cold and drought hardening
- Role of mineral nutrition in improving stock quality
- Plant crop and symbiotic interactions, such as mycorrhizae
- New / alternative stocktypes
- Seedling quality assessment

DRIVERS OF SEEDLING ESTABLISHMENT IN THE FIELD, PREDICTION OF EARLY PERFORMANCE

- Water relations and seedling establishment
- Seedling nutrient and carbohydrate dynamics during establishment
- Identifying components of stress and assessing planting stress
- Soil properties and root growth

SITE PREPARATION FOR RESTORATION: EFFECTS ON SITE MICROCLIMATE AND SUBSEQUENT PLANT RESPONSE UNDER HARSH CONDITIONS

- Soil preparation to enhance root growth capacity
- Field fertilization
- Vegetation control: mechanical, chemical, and alternatives
- The role of shelter and protection in forest restoration
- Biotic facilitation, such as nurse or cover crops
- Biotic damage - browsing, grazing

THE ROLE OF GENETICS IN PRODUCING RESILIENT ECOSYSTEMS

- Molecular genetics: application to selecting traits of interest
- Breeding for insect and disease resistance
- Species selection and population genetics
- The role of non-native species
- Anticipating global change: re-delineating seed zones and assisted migration

