



Photo Mats Hannerz, storm felling



Photo Johanna Witzell, dying Dutch elm



Photo Mats Hannerz, *Lactiporus sulphureus*



Photo Mats Hannerz, seedlings for restoring the African forest



Photo Mats Hannerz, virgin rainforest, Uganda

3rd Restoring Forests: Regeneration and Ecosystem Function for the Future

Lund, Sweden
12th-14th September 2017

The international IUFRO conference on forest restoration and regeneration:

- *learning from the past for the future*
- *stress tolerant plant materials*
- *designing and establishing resistant and resilient forest landscapes.*

Organized by: IUFRO; Swedish University of Agricultural Sciences; University of Copenhagen; Estonian University of Life Sciences; Purdue University.

Submit your abstract here!

<http://www.appinconf.com/kas/Abstract?projectName=forest2017>

Deadline for abstract 1 May



3rd Restoring Forests: Regeneration and Ecosystem Function for the Future

Overview and main objective

Conversion of natural habitats into degraded lands or forests is a major threat to sustainable development all over the world. Degradation of forests erodes environmental services, such as production of wood and biomass, natural habitats for biodiversity, watershed protection, and provision of non-woody forest products. In addition, forest degradation contributes severely to climate change. Today, huge areas worldwide are in urgent need of forest restoration. This necessitates spatial prioritization of restoration efforts according to future-oriented cost-benefit analyses that are based on scientific knowledge. To support this process, we organize an international scientific conference, The 3rd Restoring Forests: Regeneration and Ecosystem Function for the Future, which communicates the state-of-the-art in the relatively new research field of restoration ecology.

A cooperation

The conference will be organized by several networks, which ensures broad participation and maximize the scientific exchange: EFINORD –SNS Nordic Network of Forest Regeneration; IUFRO Task force – Forest Adaptation and Restoration under Global Change; IUFRO unit 1.01.00 – Temperate and Boreal Silviculture; IUFRO unit 1.06.00 – Restoration of Degraded Sites; IUFRO unit 1.01.06 – Ecology and Silviculture of Oak; IUFRO unit 2.01.15 – Whole Plant Physiology; SLU Faculty of Forest Sciences research school – Bioeconomy – Adapted Forest Management.

Organizing committee

Prof Magnus Löf, SLU, Sweden; Assoc. Prof Johanna Witzell, SLU, Sweden; Prof Palle Madsen, KU, Denmark; Dr Marek Metslaid, EMU, Estonia; Prof Douglass F Jacobs, Purdue University, USA.

Other details

- The venue of the event is AF Borgen in Lund, Sweden (<http://en.afborgen.se/>), unless noted. Lund is located in southernmost Sweden (<http://www.visitlund.se/en>) with excellent train connection (ca ½ hour) to Copenhagen international airport in Denmark.
- All oral sessions will be plenary sessions held in English.
- A selection of the communications presented will be published in a special issue of the international journal, *New Forests* (published by Springer).
- During the conference a half-day field excursion will be organized to Söderåsens National Park. Friday the 15th of September an optional one-day post-conference excursion to Trolleholm, Sweden and Sjaelland, Denmark will be organized. The end-point of this excursion will be Copenhagen international airport.
- The website will be updated regularly with details about program, registration, call for papers and deadlines for abstracts submission (<https://reg.akademikonferens.se/restoringforest2017>).



Preliminary program

Invited speakers

Monday 11th September 2017

18:00-20:00: Registration and welcome reception

Tuesday 12th September

Full day indoors

Introduction

Session 1: Learning from the past

Climate change and tree species diversity through history. Restoring extinct forest tree species and plants. Restoring Pleistocene megafauna. Practical forest restoration success stories in Europe and elsewhere. Reference systems and climate change

Session 2: Ecological knowledge supporting forest restoration

Biodiversity-productivity relationships. Mixed forests. Competition and facilitation. Plant-plant / plant-animal / plant-fungus interactions. Regeneration dynamics and natural regeneration. Eco-techniques for plant protection and establishment. Understanding seedling establishment. Genetics and restoration under global change. Assisted migration.

Wednesday 13th September

Half-day indoors

Session 3: Advances in restoration and regeneration techniques and systems

Seedling quality. Plant production. Producing stress-tolerant seedlings. Site preparation for restoration. Direct seeding. Natural regeneration. Protection from browsing animals.

13:00-19:00 Field trip to Söderåsens national park

Thursday 14th September

Full day indoors

Session 4: Forest restoration following biotic and abiotic disturbances:

Restoring forests after wind and fire regimes. Large scale forest restoration efforts following pests and diseases. Restoration of forest landscapes following anthropogenic disturbances.

Session 5. Restoring forest-landscapes of the future

Integrating socio-ecological dimensions in restoration practice. Assessing the effects of forest restoration. Cost-effective forest restoration. Forest adaptation and restoration. Forest restoration for biodiversity conservation. Retention forestry. Forest policy for restoration

16:15-17:00. Oral communications and final conclusions

17: 15 Departure / post-conference tour

Friday 15th September

Post-conference tour

08:00-16:00 Field trip in southern Sweden and in Denmark

Final stop Copenhagen airport.

Richard Bradshaw
Liverpool University, UK

Catherine Collet
INRA, France

Pablo J Donoso
Universidad Austral de Chile, Chile

Annika Felton
SLU, Sweden

Lorena Gómez-Aparicio,
Spanish National Research Council, Spain

Lena Gustafsson
SLU, Sweden

David Lindenmayer
The Australian National University, Australia

Juan A Martín,
Technical University of Madrid, Spain

Timo Saksa
National Resources Institute, Finland

Luis Neves Silva
WWF International

John Stanturf
US Forest Service, USA

Anne Tolvanen
National Resources Institute, Finland

