



Designing Trees for the Future: Data is the cornerstone

Bedford Hotel, Brussels on 4-6th April 2016

Tentative programme

Monday: PM PLENARY SESSION (duration 2h-2h30)

- Trees4Future key results for policy-makers, L.E.Pâques
- Forestry Innovation and Research agenda, A.v.Kleinschmit, J.Van Brusselen
- Vision for a European Tree Breeding Centre L.E.Pâques, M.Marzano

Tuesday: PLENARY SESSION “Designing Trees for the Future: Data is the cornerstone”

INTRODUCTION of the CONFERENCE

SESSION 1: Data production: *the focus of this session is to highlight the needs for large geographic scale/time series datasets, of innovative high-throughput methodologies and of some alternative ways to collect data.*

Invited speakers:

- Benefits of pan-european experimental genetic networks, C.Matyas
- Reinforce network, C.Orazio (EFIATLANTIC)
- Opportunities and challenges for the development of a European plant phenotyping research infrastructure, F.Foriani (EPPN)
- Participative science, M.Julliard (Museum National d’Histoire Naturelle)

Consortium:

- Phenology modelling of beech from pan-European beech IUFRO provenance tests networks, K.Kramer (Alterra)
- NIRS and high-throughput phenotyping in wood science, JC.Rodrigues (ISA)
- Drought control of potted tree seedlings using a robotic system, O.Brendel (INRA)
- Impact of high-throughput phenotyping on estimation of genetic parameters, K.Karkkainen, L.E.Pâques (LUKE, INRA)

SESSION 2: Data storage, access and intellectual property: *this session aims to present international initiatives for long-term, massive data storage, open access to data and IP rights on data*

Invited speakers:

- Distributed infrastructure for life-science information, tbc
- Pan European Phenological database, tbc
- EUFGIS database: use, linkages and future relevance, M.Bozzano (Bioversity)

Consortium:

- Open access, Intellectual property on data, N.Morcrette, M.Alliouat (INRA)
- Trees4Future databases, S. Gaubitzer and E-M Sehr (AIT)
- Trees4Future clearinghouse, R. Lokers (Alterra)

Lunch break and poster session



SESSION 3: Data analysis and modelling in various contexts: *this session is focused on development and use of new tools for data analysis and modelling.*

Invited speakers:

- Modelling in ecology, H.Bugmann (ETH)
- New development in statistical analysis of data, tbc

Consortium:

- Modelling Breeding and deployment zones, D. Ray, M.Marchi, J.Boiffin, V.Badeau (FR, CRA, INRA)
- Forest resources modelling, G-Jan Nabuurs, M.Vizzari (Alterra, Unimol)
- BreedR: Accounting for abiotic and biotic neighboring heterogeneity affecting tree phenotypic evaluation in experimental trials, L. Sanchez (INRA)

Coffee break and poster session

SESSION 4: Access and benefit-sharing – Traceability

Invited speakers:

- C. Williams (Kew Bot.Garden)

Consortium:

- A model MTA for forest genetic material E. Beuker (LUKE)
- Tracing forest reproductive material by its DNA: forest forensics B.Heinze (BFW)

SESSION 5: T4F Users success stories

- Lessons to learn from TNA programme, F. Miglietta (FEM)
- Successful TNA visit stories, Invited TNA visitor users

+ TNA visitors' poster presentation: TNA beneficiaries to be invited to present their results as posters

Wednesday: Demonstration and dissemination of T4F tools

Morning sessions:

- Session 6A: Standardisation of trait assessment methodologies and development of high-throughput phenotyping tools and methodologies
- Session 6B: Molecular tools for FRM and wood products traceability
- Session 6C: Forest resources modelling
- Session 6D: Thematic networks: Plasticity

Afternoon sessions:

- Session 6A: Continuation in the forest
- Session 6B: BreedR: an open statistical tool to analyse genetic data
- Session 6C: Better climate matching species and FRM to sites
- Session 6D: T4F genetic and environmental information portal (Clearinghouse DBs, portal)