

## **Program**

Open Symposium: 3 invited lectures (40 min.)

Conference: 5 sessions with 3 keynotes (50 min.), 23 papers (20 min.), and 32 posters

### **Wednesday 21 September 2016**

- 13:00-14:00 **Registration**
- 14:00-14:20 **Welcome addresses for Open Symposium**
- 14:20-15:00 **OS-1 Stand dynamics of silver fir-European beech forests**  
by Andrej Bončina (Slovenia)
- 15:00-15:40 **OS-2 Structure and regeneration of silver fir in natural mixed stands: Implication for silviculture**  
by Dorota Dobrowolska (Poland)
- 15:40-16:20 **OS-3 On the gene ecology in European fir species**  
by Raphael Thomas Klumpp (Austria)
- 16:20-16:30 **Refreshment break**
- 16:30-17:00 **General discussion**
- 17:00-17:30 **Registration**
- 17:30-19:30 **Welcome reception (B1 : Cafeteria)**

### **Thursday 22 September 2016**

- 08:30-09:00 **Registration**
- 09:00-09:10 **Opening addresses**
- 09:10-10:00 **Keynote 1 *Abies*: an overview of the firs of the world**  
by Aljos Farjon (United Kingdom)
- 10:00-10:30 **Refreshment break**

#### **Session 1 Biogeography and phylogenetics of fir species** (Chair: Takeshi Seki)

- 10:30-10:50 **S1-1 Spatio-temporal distribution and ecology of *Abies* in the Korean Peninsula**  
by Woo-seok Kong (Korea)
- 10:50-11:10 **S1-2 Spatial patterns of fading *Abies alba* in Western Carpathians, Europe**  
by David Janík (Czech Republic)

- 11:10-11:30 **S1-3** **Phylogeography and evolution of the Mediterranean firs**  
by Anass Terrab (Spain)
- 11:30-11:50 **S1-4** **Phylogenetic relationships and taxonomic diversity of genus *Abies* inferred from nuclear and cytoplasmic DNA**  
by Svetlana Semerikova (Russian Federation)
- 11:50-12:00 **Group photo**
- 12:00-13:00 **Lunch break**

### Poster Session

- 13:00-14:00 **Poster presentations (Group A)**
- 14:00-15:00 **Poster presentations (Group B)**
- 15:00-15:20 **Refreshment break**

### Session 2 **Demography and mycology of fir forests** (Chair: Raphael Th. Klumpp)

- 15:20-15:40 **S2-1** **Opportunist, generalist or specialist: Fir regeneration strategies and microsite preferences in the Carpathian mixed beech forests**  
by Olga Orman (Japan)
- 15:40-16:00 **S2-2** **An individual tree growth model for Todo fir (*Abies sachalinensis* (Fr. Schmidt) Masters) in Hokkaido, northern Japan**  
by Mika Takiya (Japan)
- 16:00-16:20 **S2-3** **Mortality functions for *Abies balsamea* and *Abies lasiocarpa* for Western North America in relation to tree size, stand competition and climate**  
by Francesco Cortini (Canada)
- 16:20-16:40 **S2-4** **Incidence and factors influencing root and butt rot in Todo fir stands in Hokkaido, Japan**  
by Sawako Tokuda (Japan)

## Friday 23 September 2016

- 09:00-09:50 **Keynote 2** **Species interactions, neighbourhood dynamics and complexity science: management options for North American *Abies* forests**  
by K. David Coates (Canada)
- 09:50-10:20 **Refreshment break**
- Session 3** **Effects of ungulate browsing on fir forests**  
(Chair: Dorota Dobrowolska)
- 10:20-10:40 **S3-1** **Balsam fir growth and forest regeneration under increased browsing pressure from moose**  
by Antoine Boudreau LeBlanc (Canada)
- 10:40-11:00 **S3-2** **Influence of large ungulates on silver fir-European beech forest vegetation: comparison between fenced and unfenced sites**  
by Tina Simončič (Slovenia)
- 11:00-11:20 **S3-3** **Relative contributions of plant competition and browsing by white-tailed deer on the performance of planted balsam fir**  
by Maxime Brousseau (Canada)
- 11:20-11:40 **S3-4** **Does browsing resilience of saplings differ among provenances? A genecological study with simulated browsing**  
by Andrea Doris Kupferschmid (Switzerland)
- 11:40-12:30 **Lunch**
- 12:30-18:30 **In-conference tour**
- 18:30- **Banquet**

## Saturday 24 September 2016

- 09:00-09:50 **Keynote 3** ***Abies* species in Japan, and natural stands and plantations of *A. sachalinensis* in Hokkaido**  
by Masato Shibuya
- 09:50-10:20 **Refreshment break**
- Session 4** **Climate change and natural disturbances in fir forests**  
(Chair: K. David Coates)
- 10:20-10:40 **S4-1** **Disturbance history of old-growth mixed beech-fir-spruce forests in Western Carpathians**  
by Michał Adamus (Poland)
- 10:40-11:00 **S4-2** **Increased mortality of *Abies sachalinensis* following a wind-disturbance in a natural mixed forest**  
by Toshiya Yoshida (Japan)

- 11:00-11:20 **S4-3** **Is *Abies alba* more susceptible to ice damage as other tree species in mixed forests of Central Europe?"**  
by Matija Klopčič (Slovenia)
- 11:20-11:40 **S4-4** **Differentiated impact of climate and soil on primary and secondary growth of *Abies alba* Mill.**  
by Paulina E. Pinto (France)
- 11:40-12:00 **S4-5** **Disentangling the effect of climatic and genetic factors contributing to *Abies alba* Mill. tree-ring growth variation along the Italian peninsula**  
by Carlo Urbinati (Italy)
- 12:00-13:00 **Lunch**

**Session 5**      **Fir forest management (Chair: Toshiaki Owari)**

- 13:00-13:20 **S5-1** **Characterizing *Abies sachalinensis* among plantation species in Japan**  
by Ryogo Nakada (Japan)
- 13:20-13:40 **S5-2** **An analysis to maximize Todo fir profitability through optimal silviculture system selection under economic and site condition uncertainties**  
by Tohru Nakajima (Japan)
- 13:40-14:00 **S5-3** **Short-term effects of cleaning-respacings in a silver fir-dominated stand**  
by Valeriu-Norocel Nicolescu (Romania)
- 14:00-14:20 **S5-4** **Maintaining biodiversity in subalpine fir (*Abies lasiocarpa*) forests managed for wood production**  
by Sybille Haeussler (Canada)
- 14:20-14:40 **S5-5** **Monks and forests in the northern Italian Apennines: legacies of historical land-use on present forest structure and processes**  
by Renzo Motta (Italy)
- 14:40-15:00 **S5-6** **Management based on traditional local knowledge and conservation of *Abies alba* in Calabria (Southern Italy)**  
by Francesco Iovino (Italy)
- 15:00-15:30 **Refreshment break**
- 15:30-16:00 **IUFRO WP 1.01.09 business meeting**
- 16:00-16:20 **Closing addresses**

**Sunday 25 September 2016**

- 08:30      **Departure for *post-conference tour* from Sapporo Railway Station**

## Poster presentation

- P-01** **Phylogenomics and species delimitation in the Mediterranean firs**  
by Francisco Balao
- P-02** **A complex evolutionary history shaped the distribution of *Abies alba* (Mill.) genetic variation along the Apennines**  
by Carlo Urbinati
- P-03** **Range shift and introgression of three Japanese *Abies* species: insights from microsatellite, mtDNA and species distribution modelling**  
by Kentaro Uchiyama
- P-04** **Nuclear genome size of *Abies sachalinensis* in Hokkaido Island, Japan**  
by Hideyuki Saito
- P-05** **Molecular selection for low water availability and extreme temperatures in the Mediterranean *Abies* species: a SNP approach**  
by Juan Luis Garcia-Castaño
- P-06** **Genetic structure of the relict Spanish fir *Abies pinsapo* Boiss.: an ABC approach**  
by José Manuel Sánchez Robles
- P-07** **Evaluation of genetic structure and diversity within and among populations of an endemic species, *Abies veitchii* var. *shikokiana* in Shikoku, Japan**  
by Masakazu G. Iwaizumi
- P-08** **Diameter structures in mixed species, near-natural and natural stands with *Abies alba***  
by Rafał Podlaski
- P-09** **Changes in the population structure of *Abies firma* in a temperate mixed forest located in Fukushima Prefecture, eastern Honshu, Japan**  
by Megumi K. Kimura
- P-10** **Regeneration niche of *Abies firma* in the species-rich temperate mixed forest: a multi-scale analysis linking geographical distribution, stands and reciprocal patches**  
by Yoshihiko Hirabuki
- P-11** **Recruitment, growth and mortality of Sakhalin fir (*Abies sachalinensis*) in northern Japanese mixedwood stands managed under selection system**  
by Toshiaki Owari
- P-12** **The influence of gap size on growth and development of silver fir regeneration in near-natural mixed stands in the Świętokrzyskie Mountains**  
by Piotr Wrzesiński
- P-13** **Fir and its ectomycorrhiza from local to global scale**  
by Tina Unuk
- P-14** **Decaying and development of fruiting body in the stem of Sakhalin fir inoculated with *Fomitiporia hartigii***  
by Takehiro Yamaguchi
- P-15** **Effects of snow manipulation treatments on damage to *Abies sachalinensis* seeds by soil-born fungi**  
by Toshizumi Miyamoto
- P-16** **Monitoring the effect of ungulates on forest regeneration in Slovenia**  
by Aleš Poljanec
- P-17** **Photosynthetic responses of Sakhalin fir seedlings exposed to elevated ozone: a preliminary assessment**  
by Tetsuto Sugai

- P-18** Biomass partitioning, photosynthesis and root starch of Japanese fir (*Abies firma*) saplings in response to light condition  
by Tanaka Kenzo
- P-19** Effects of xylem embolism on winter survival of *Abies veitchii* shoots in an upper sub-alpine region of central Japan  
by Emiko Maruta
- P-20** Adaptation to freezing in evergreen leaf cells of fir (*Abies sachalinensis*)  
by Keita Endoh
- P-21** Evaluation of thermal conditions for the explanation of annual variation in the seed-cone bud production of *Abies sachalinensis*  
by Takeshi Seki
- P-22** The vulnerability of silver fir populations to damage from late frosts  
by Piotr Wrzesiński
- P-23** Long-term dynamics of a wave-regenerated forest following large-scale typhoon disturbance  
by Satoshi N. Suzuki
- P-24** Seeds were the least contaminated by radiocesium in Japanese fir (*Abies firma*) in Fukushima, Japan  
by Yurika Oba
- P-25** Promising fir provenances for mitigation of climate change effects: a top-down approach in provenance testing at eco-zone level  
by Raphael Thomas Klumpp
- P-26** Evaluating the home-site advantage in *Abies sachalinensis* in Hokkaido, based on the long-term provenance trials  
by Wataru Ishizuka
- P-27** Year-to-year variation in paternal and maternal reproductive successes of Momi fir trees in Abukuma Mountains, eastern Japan  
by Masato Ohtani
- P-28** Seed production and genetic improvement of *Abies sachalinensis* for plantation forestry in Hokkaido, Japan  
by Keisuke Yano
- P-29** Advantages of using Todo fir snags for deadwood management in mixed *Abies* plantation-*Larix* plantation landscapes in Hokkaido, Japan  
by Kensuke Onodera
- P-30** From sacred to profane: the millenary silviculture of *Abies alba* from the Camaldolese monastic archives in Italy  
by Carlo Urbinati
- P-31** *Abies sachalinensis* planted forests are important habitats for understory plants  
by Nobuhiro Akashi
- P-32** Acclimation capacity of *Abies sachalinensis* seedlings to different light conditions after selection cutting  
by Masazumi Kayama
- P-33** Genetic characterization of important regional silver fir populations in the Czech Republic  
by Martin Fulín
- P-34** Evaluation of quantitative and qualitative characteristics of various species of genera *Abies* in the Czech Republic  
by Jaroslav Dostál