**Abies 2016**

**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 genealogical 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 Michal 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 Phylgenomics 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 Poljaneč

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 sitchensis)
by Keita Endoh

P-21 Evaluation of thermal conditions for the explanation of annual variation in the seed-cone bud production of Abies sitchensis
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 sitchensis 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 sitchensis 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 sitchensis planted forests are important habitats for understory plants
by Nobuhiro Akashi

P-32 Acclimation capacity of Abies sitchensis 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