

**Abies 2016: The 15<sup>th</sup> International Conference on Ecology and Silviculture of Fir**

**21-24 September, 2016, Sapporo, Japan**

**Program (tentative)**

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 "Stand dynamics of silver fir-European beech forests"  
by Andrej Bončina (Slovenia)

15:00-15:40 "Structure and regeneration of silver fir in natural mixed stands: Implication for silviculture" by Dorota Dobrowolska (Poland)

15:40-16:20 "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

**Thursday 22 September 2016**

08:30-09:00 Registration

09:00-09:10 Opening addresses

09:10-10:00 [Keynote] "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 "Spatio-temporal distribution and ecology of *Abies* in the Korean Peninsula" by Woo-seok Kong (Korea)
- 10:50-11:10 "Spatial patterns of fading *Abies alba* in Western Carpathians, Europe" by David Janik (Czech Republic)
- 11:10-11:30 "Phylogeography and evolution of the Mediterranean firs" by Anass Terrab Benjelloun (Spain)
- 11:30-11:50 "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 "Opportunist, generalist or specialist: Fir regeneration strategies and microsite preferences in the Carpathian mixed beech forests" by Olga Orman (Japan)
- 15:40-16:00 "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 "Mortality functions for *Abies balsamea* and *Abies lasiocarpa* for Western North America in relation to tree size, stand competition and climate" by Cortini Francesco (Canada)

16:20-16:40 "Incidence and the influencing factors of root and butt rot in Todo fir stands in Hokkaido, Japan" by Sawako Tokuda (Japan)

### **Friday 23 September 2016**

09:00-09:50 [Keynote] "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 "Balsam fir growth and forest regeneration under increased browsing pressure from moose" by Antoine Boudreau LeBlanc (Canada)

10:40-11:00 "Influence of large ungulates on silver fir-European beech forest vegetation: comparison between fenced and unfenced sites" by Tina Simoncic (Slovenia)

11:00-11:20 "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 "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] "Ecology, silviculture and management of

fir forests in Japan" 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 "Disturbance history of old-growth mixed beech-fir-spruce forests in Western Carpathians" by Michal Adamus (Poland)

10:40-11:00 "Increased mortality of *Abies sachalinensis* following a wind-disturbance in a natural mixed forest" by Toshiya Yoshida (Japan)

11:00-11:20 "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 "Differentiated impact of climate and soil on primary and secondary growth of *Abies alba* Mill." by Paulina E. Pinto (France)

11:40-12:00 "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 "Characterizing *Abies sachalinensis* among plantation species in Japan" by Ryogo Nakada (Japan)

13:20-13:40 "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 "Short-term effects of cleaning-respacings in a silver fir-dominated stand" by Valeriu-Norocel

Nicolescu (Romania)

- 14:00-14:20 "Maintaining biodiversity in subalpine fir (*Abies lasiocarpa*) forests managed for wood production" by Sybille Haeussler (Canada)
- 14:20-14:40 "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 "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

**Abies 2016: The 15th International Conference on Ecology and Silviculture of Fir**  
**Poster presentation (tentative)**

| No.  | Title  | Family Name    | Middle Name | Given Name  |
|------|--|----------------|-------------|-------------|
| P-1  | Phylogenomics and species delimitation in the Mediterranean firs   | Balao          |             | Francisco   |
| P-2  | A complex evolutionary history shaped the distribution of <i>Abies alba</i> (Mill.) genetic variation along the Apennines  | Piotti         |             | Andrea      |
| P-3  | Range shift and introgression of three Japanese <i>Abies</i> species : insights from microsatellite, mtDNA and species distribution modelling                                | Uchiyama       |             | Kentaro     |
| P-4  | Nuclear genome size of <i>Abies sachalinensis</i> in Hokkaido Island, Japan  | Saito          |             | Hideyuki    |
| P-5  | Molecular selection for low water availability and extreme temperatures in the Mediterranean <i>Abies</i> species: a SNP approach  | Garcia-Castano |             | Juan Luis   |
| P-6  | Genetic structure of the relict Spanish fir <i>Abies pinsapo</i> Boiss.: an ABC approach   | Sanchez Robles |             | Jose Manuel |
| P-7  | Evaluation of genetic structure and diversity within and among populations of an endemic species, <i>Abies veitchii</i> var. <i>shikokiana</i> in Shikoku, Japan             | Iwaizumi       | G.          | Masakazu    |
| P-8  | Diameter structures in mixed species, near natural and natural stands with <i>Abies alba</i>   | Podlaski       |             | Rafal       |
| P-9  | Changes in the population structure of <i>Abies firma</i> in a temperate mixed forest located in Fukushima Prefecture, eastern Honshu, Japan                                 | Kimura         | K.          | Megumi      |
| P-10 | Regeneration niche of <i>Abies firma</i> in the species-rich temperate mixed forest: a multi-scale analysis linking geographical distribution, stands and reciprocal patches | Hirabuki       |             | Yoshihiko   |
| P-11 | Recruitment, growth and mortality of Sakhalin fir ( <i>Abies sachalinensis</i> ) in northern Japanese mixedwood stands managed under selection system                        | Owari          |             | Toshiaki    |
| P-12 | The influence of gap size on growth and development of silver fir regeneration in near-natural mixed stands in the Swietokrzyskie Mountains                                  | Wrzesinski     |             | Piotr       |
| P-13 | Fir and its ectomycorrhiza from local to global scale  | Unuk           |             | Tina        |
| P-14 | Decaying and development of fruiting body in the stem of Sakhalin fir inoculated with <i>Fomitiporia hartigii</i>  | Yamaguchi      |             | Takehiro    |
| P-15 | Effects of snow manipulation on damage to <i>Abies sachalinensis</i> seeds by soil-born fungi  | Miyamoto       |             | Toshizumi   |
| P-16 | Monitoring the effect of ungulates on forest regeneration in Slovenia  | Poljanec       |             | Ales        |
| P-17 | Photosynthetic responses of Sakhalin fir seedlings exposed to elevated ozone: a preliminary assessment   | Sugai          |             | Tetsuto     |
| P-18 | Biomass partitioning, photosynthesis and root starch of Japanese fir ( <i>Abies firma</i> ) saplings in response to light condition  | Tanaka         |             | Kenzo       |
| P-19 | Effects of xylem embolism on winter survival of <i>Abies veitchii</i> in an upper sub-alpine region of central Japan   | Maruta         |             | Emiko       |
| P-20 | Adaptation to freezing in evergreen leaf cells of fir ( <i>Abies sachalinensis</i> )   | Endoh          |             | Keita       |
| P-21 | Evaluation of thermal conditions for the explanation of annual variation in the seed-cone bud production of <i>Abies sachalinensis</i>                                       | Seki           |             | Takeshi     |
| P-22 | The vulnerability of silver fir populations to damage from late frosts   | Wrzesinski     |             | Piotr       |
| P-23 | Long-term dynamics of a wave-regenerated forest following large-scale typhoon disturbance  | Suzuki         |             | Satoshi     |
| P-24 | Seeds were the least contaminated by radiocesium in Japanese fir ( <i>Abies firma</i> ) in Fukushima, Japan  | Oba            |             | Yurika      |
| P-25 | Promising fir provenances for mitigation of climate change effects: a top-down approach in provenance testing at eco-zone level  | Klump          | Thomas      | Raphael     |
| P-26 | Evaluating the home-site advantage in <i>Abies sachalinensis</i> in Hokkaido, based on the long-term provenance trials   | Ishizuka       |             | Wataru      |
| P-27 | Year-to-year variation in paternal and maternal reproductive successes of Momiji fir trees in Abukuma Mountains, eastern Japan   | Ohtani         |             | Masato      |
| P-28 | Seed production and genetic improvement of <i>Abies sachalinensis</i> for plantation forestry in Hokkaido, Japan.  | Yano           |             | Keisuke     |
| P-29 | Advantages of using Todo fir snags for deadwood management in mixed <i>Abies</i> plantation-Larix plantation landscapes in Hokkaido, Japan                                   | Onodera        |             | Kensuke     |
| P-30 | From sacred to profane: the millenary silviculture of <i>Abies alba</i> from the Camaldolese monastic archives in Italy  | Urbinati       |             | Carlo       |
| P-31 | <i>Abies sachalinensis</i> planted forests are important habitats for understory plants  | Akashi         |             | Nobuhiro    |
| P-32 | Acclimation capacity of <i>Abies sachalinensis</i> seedlings to different light conditions after selective cutting   | Kayama         |             | Masazumi    |