

Suleyman Demirel University  
Forestry Faculty



21-25 May, 2012 Antalya Turkey



# Seed Orchards and Breeding Theory Conference

Scientific Program





# Program of Seed Orchards and Breeding Theory Conference

## 21 May- MONDAY

07.45	Departure from Hotel to Isparta
11.00 – 12.00	Opening Ceremony
12.00 – 13.30	Lunch
13.30 – 14.30	Visit to Botanic Garden; A memorial seedling plantation
14.30 – 17.00	Visit to Sagalassos (Ancient city)
17.00	Departure from Sagalassos to Hotel (Kemer, Antalya)
20.00	Welcome Dinner

## 22 May- TUESDAY

08.30 – 08.45	Poster hanging
08.45 – 08.50	Welcome and Technical information: <b><u>Nebi Bilir</u></b>

### **Moderator: Prof. Dr. Yousry El-Kassaby**

08.50 – 09.00	Seed orchards – Introduction: <b><u>Dag Lindgren</u></b>
09.00 – 09.25	Genomic selection in forest trees preliminary results with <i>Pinus taeda</i> : <b><u>Fikret Isik</u></b> , Ross Whetten, Steve McKeand
09.25 – 09.50	Overview of commercial seed production systems of temperate and sub-tropical Eucalypt, Pine and Acacia species in South Africa: <b><u>W.R. Jones</u></b>
09.50 – 10.15	Genetic consequences of utilization artificial populations in forestry: <b><u>Attila Borovics</u></b> , Klára Cseke, Tamás Molnar
10.15 – 10.40	Reduced background pollination by isolation?: <b><u>Ulfstand Wennström</u></b> , Curt Almqvist, Bengt Andersson
10.40 – 11.00	<b>Coffee Break</b>

### **Moderator: Dr. Kyu-Suk Kang**

11.00 – 11.25	Back in Turkey: Breeding without breeding: Minimum genotyping effort: <b><u>Milan Lstibůrek</u></b> , Yousry A. El-Kassaby
11.25 – 11.50	Orchard seedlot rating in British Columbia, Canada: <b><u>Christopher G Walsh</u></b>
11.50 – 12.15	Effects of top pruning on flowering and growth of Scots pine ( <i>Pinus sylvestris</i> L.) in seed orchard: <b><u>Piotr Markiewicz</u></b>
12.15 – 12.40	Seedling seed orchards in Poland: <b><u>Jan Kowalczyk</u></b> , Dag Lindgren
..... – 14.00	<b>Lunch &amp; Poster Session</b>

### **Moderator: Prof. Dr. Darius Danusevicius**

14.00 – 14.25	Accelerating tree breeding programs and the impact on forest productivity and profitability in the Southern US: <b><u>Steve McKeand</u></b> , Ernest Dixon, IV, J.B. Jett, Saul Garcia, Jim Grissom, Tori Batista-Brooks, Fikret Isik, Josh Steiger, Jadie Andrews, and Ross Whetten
14.25 – 14.50	Optimal use of genetics in deployment using SEEDPLAN tools: <b><u>McRae T A</u></b> , Kerr R J, Dutkowski G W, Buxton P A, Cunningham P D, Pilbeam D J
14.50 – 15.15	Parental reproductive investment and success in conifer seed orchards: <b><u>Tomas Funda</u></b> , Yousry A. El-Kassaby
15.15 – 15.40	Heritability in <i>Pistacia atlantica</i> : <b><u>Nasrin Seyedi</u></b> , S.G. Ali Jalali, Mohammad Moghaddam
15.40 – 16.00	<b>Coffee Break &amp; Poster Session</b>

### **Moderator: Dr. Curt Almqvist**

16.00 – 16.25	Seed orchards utilized in interspecific fir hybridization: <b><u>Jaroslav Kobliha</u></b> , Jan Stejskal, John Frampton, Anne Margaret Braham
16.25 – 16.50	Production of improved seed from advance generation seedling seed orchard of <i>Dalbergia sissoo</i> Roxb. : <b><u>Ashok Kumar</u></b>
16.50 – 17.15	Genetic correlation between the qualitative and quantitative traits of plus trees and progenies of European larch ( <i>Larix decidua</i> Mill.) in seedling seed orchards: <b><u>Jan Matras</u></b>
17.15 – 17.40	Evaluation of spontaneous F <sub>1</sub> inter-specific hybrids of <i>Eucalyptus citriodora</i> and <i>E. torelliana</i> planted at different locations: <b><u>Parveen</u></b> , Kumar A, Brajeshwar and H.S. Ginwal



**23 May- WEDNESDAY**

**Moderator: Dr. Ulfstand Wennström**

- 08.45 – 09.10** Analyses of growth and wood parameters for quality seed production in clonal seed orchard of *Dalbergia sissoo* Roxb. : **Ashok Kumar**, P. K. Pande, Vijay Kumar
- 09.10 – 09.35** Norway spruce indoor seed orchard for production of base material for cutting propagation: **Mats Eriksson**, Curt Almqvist
- 09.35 – 10.00** Randomized, Replicated, Staggered Clonal-Row seed orchard design: **Yousry A. El-Kassaby**, Mohamed Fayed, Milan Lstibůrek
- 10.00 – 10.25** Genetic diversity of Scots pine seed orchard progeny from different parts of the crown based on cpSSR markers: **Darius Danusevicius**, Vilma Kerpauskaite
- 10.25 – 10.50** **Coffee Break & Poster Session**

**Moderator: Dr. Wayne Jones**

- 10.50 – 11.15** Possibilities to use GA<sub>4/7</sub> for flower stimulation in seed orchards in Sweden and the rest of EU: **Curt Almqvist**
- 11.15 – 11.40** Effect of different climatic conditions on phenological assortative mating in a black pine (*Pinus nigra* Arn.) clonal seed orchard: **P.G. Alizoti**, K. Kylimis, P. Gallios
- 11.40 – 12.05** Seasonal variation in saponin content in *Asparagus racemosus* breeding arboretum: **Parveen** and Ashok Kumar
- 12.05 – 12.30** Breeding population of *Quercus glauca* for a seed orchard regarding the climatic factors: **Seog-Gu Son**, Hyo-Jeong Kim, Hyung-Soon Choi, Young-Je Kang, Chang-Soo Kim, Kyu -Suk Kang
- ..... – 13.30** **Lunch**

**13.30 – 18.00: Visit to historical places**

**Perge:** Perge is a well preserved ancient city including the city gate, agora , column street, stadium and baths.

**Aspendos:** Aspendos is one of the best preserved ancient theatres which are world famous for its fascinating acoustics and still operated today.

**Apollon Temple:** Side was an ancient Greek city in Anatolia, in the region of Pamphylia, in what is now Antalya province, on the southern Mediterranean coast of Turkey





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## 24 May- THURSDAY

### Moderator: Dr. Nasrin Seyedi

08.45 – 09.10

Breeding and seed orchards of Turkish red pine in Turkey: Murat Alan

09.10 – 09.35

Improved forest regeneration material in Sweden 2010-2050 – Supply and needs, and measures to minimize shortage and maximize genetic gain: Curt Almqvist, Ulfstand Wennström, Bo Karlsson

09.35 – 10.00

Clonal propagation of *Adhatoda vasica*, *Vitex negundo* and *Rauwolfia serpentina* through stem cutting in low cost non-mist propagator: M. A. Hossain, Rumana Afroz

10.00 – 10.25

Tree Improvement: Crossroads between conventional and free-pedigree breeding: Yousry A. El-Kassaby, Jaroslav Klapste

10.25 – 10.50

Coffee Break & Poster Session

### Moderator: Dr. Thomas McRae

10.50 – 11.15

A Plan for the second-generation seed orchards of European larch in Romania: Georgeta Mihai

11.15 – 11.40

Analysis of polygenic traits and establishment of advance generation seed orchard in *Dalbergia sissoo* Roxb: Shivani Dobhal, Nafeesh Ahmed, Ashok Kumar

11.40 – 12.05

Management, genetic gain and genetic diversity in clonal seed orchards in Croatia: Davorin Kajba, Ida Katičić, Saša Bogdan, Olivera Tančeva Crmarić

12.05 – 12.30

Breeding and genomics of Mediterranean Conifers: P.G. Alizoti, F. Ducci, B. Fady, M. Alan, B. Cengel, M.R. Chambel, J. Climent, S.C. González-Martínez, G.E. Kandemir, H. Ozturk, Ch. Pichot, H. Sbay, G. Schiller, M.C. Varela, G.G. Vendramin

..... – 13.30

Lunch

### 13.30 – 18.00: Visit to historical places

#### Olympos National Park

**Demre/Myra:** Myra is an ancient town in Lycia. The most famous pilgrim place of Christianity is the city of the "St. Nicolas". The church dating back to the 5th century AD is at least as attractive as the much older rock graves of Myra from the 5th century BC as well as the amphitheatre.

20.30

IUFRO WP Seed Orchards. Business meeting (Kyu-Suk Kang)

## 25 May- FRIDAY

### Moderator: Dr. Milan Lstiburek

09.30 – 09.55

Assessment of fertility variation in three south Indian forest tree species: R. Kamalakannan, Mohan Varghese, K.S. Kang

09.55 – 10.20

Seed germination and seedling growth attributes of *Terminalia chebula* and *Terminalia belerica* under different pre-sowing treatments: M. A. Hossain, M. Salah Uddin

10.20 – 10.45

Fertility variation and effective population size in seedling seed orchards of *Acacia auriculiformis* at three diverse sites in southern India: R. Kamalakannan, Mohan Varghese, Nebi Bilir

10.45 - 11.10

Seed orchard of warm-temperate tree species in southern Korea: Choi, Hyung-Soon, Young-Je Kang, Seung-Bae Lee, Kwang-Ok Byun

11.10 – 11.35

Correlation between cone production and growth characteristics in clonal seed orchards of Scots pine: Nebi Bilir, Ismail Dutkuner, Sefa Tavas

11.35 – 11.50

Poster removing

..... – 13.30

Lunch

### 13.30-17.00: Visit to Tahtali National Park

**Tahtali National Park**, located in Antalya-Kemer, with its height of 2365 m is the mountain closest to the sea on the southern coastline of Turkey. Teleferic Journey.

20.00

Farewell dinner

## 26 May- SATURDAY

**Pamukkale:** Pamukkale, meaning "cotton castle" contains hot springs and travertines, terraces of carbonate minerals left by the flowing water.

**Afrodiasias:** It is well preserved ancient greco-roman city which is dedicated to the Goddess of Love, "Aphrodite". This city was a famous school of sculpture and hence became a center of Art in its time. It also has the most well preserved stadium in Anatolia with a 30,000 seating capacity.

**Note:** Except of the Conference, 250 Euro/per person including accommodation till noon 27 at the conference hotel (departure from conference hotel at 09.30; arriving to conference hotel at 20.00)

