

Training School on container nursery production and seedling quality assessment for Boreal forest regeneration

COST ACTION 19128 Pan-European Network for Climate Adaptive Forest Restoration and Reforestation

Description

Forest regeneration and restoration projects worldwide often involve planting seedlings produced in nurseries. Seedlings cultivated in container nurseries are widely utilized in several regions in Europe, particularly in the Boreal forests of northern Europe and the Mediterranean forests of southern Europe.

The training school aims at providing an updated perspective on container production and seedling quality assessment for forest regeneration in Boreal forests. Training School is supported by the [Cost Action PEN-CAFoRR](#) and it is organized by the [Swedish University of Agricultural Sciences](#) (SLU).

Cost Action Training schools serve as tools for disseminating knowledge to stakeholders and young researchers, including PhD students and early career investigators, while also facilitating the knowledge exchange among members from different European regions.

Output

The Training School (TS) will alternate 1) lectures on theoretical topics and state of the art on container nurseries for the cultivation of boreal tree species, 2) lab sessions for seedling quality assessment, and 3) nursery and field site visits.

Audience

The TS primarily targets PhD students, young researchers, and stakeholders who are currently engaged in or have a proven background in forestry, nursery cultivation, and forest restoration.

Location of the TS

The campus of the School for Forest Management at [Skinnskatteberg](#), Sweden. The campus belongs to the Swedish University of Agricultural Sciences.

Number of students: maximum of 15

Trainers:

- Dr. **Daniel Gräns**, Senior lecturer, SLU School for Forest Management, coordinator SLU Forest Nursery Forum.
<https://www.researchgate.net/profile/Daniel-Graens-2>
- Dr. **Douglass F. Jacobs**, full professor, Purdue University, Indiana, USA.
<https://www.researchgate.net/profile/Douglass-Jacobs>
- Dr. **Anders Lindström**, Senior Advisor SLU School for Forest Management.
<https://www.researchgate.net/profile/Anders-Lindstroem-4/research>
- Dr. **Åke Olson**. Associate professor, researcher SLU, Department of Forest Mycology and Plant Pathology. <https://www.slu.se/en/ew-cv/ake-olson/>
- Dr. **Pedro Villar-Salvador**, Associate professor, Universidad de Alcalá, Spain.
<https://www.researchgate.net/profile/Pedro-Villar-Salvador>
- Dr. **Elisabeth Wallin**, Lecturer, and deputy head of department SLU School for Forest Management. <https://www.researchgate.net/profile/Elisabeth-Wallin>

Language of the TS

English. Students are expected to have good spoken and listening English level.

How to you join the Training School

Send your *curriculum vitae* to the organizers (see contact information below), indicating your background, affiliation, and current work. Attach a motivation letter explaining briefly, why you want to enroll in the Training School. The selection of candidates will prioritize PhD students, young researchers, and stakeholders involved in forest restoration of Cost Action country members and will consider gender parity and country diversity.

Organizers and contact

Local organizer: Dr. Daniel Gräns, SLU: daniel.grans@slu.se.

Cost Action PENCAFORR, workgroup 3 coordinator: Dr. Pedro Villar-Salvador, pedro.villar@uah.es.

Lodging facilities and reimbursement of expenses

The campus offers individual rooms with a bathroom at 30 € per night. The price includes linen and towels. Additionally, there are four shared kitchens and a common dining room available for use.

Admitted students can seek reimbursement for their trip and living expenses following the [annotated rules of the Cost Action](#). To facilitate this process, it is essential for students to register for an e-COST profile at <https://e-services.cost.eu/> once they have been accepted into the program.

TS program

Monday September 4, 2023.

10:00 h. TS welcome at the Stockholm Arlanda airport.

10:15-11:00. Travel by bus to the Svenska Skogsplantor (Sveaskog) Lugnet Nursery, Sigtunavägen 12, 746 94, Häggeby.

11:00-12:00. Lunch

12:15-14:15. Visit the Svenska Skogsplantor (Sveaskog) Lugnet Nursery.

14:30-16:30. Travel to the campus of the School for Forest Management at Skinnskatteberg and **check in** at the hostel.

Tuesday September 5, 2023

8:00-9:30. Lecture by Dr. Anders Lindström.

9:30-10:00. Coffee break

10:00-12:00. Lecture by Dr. Anders Lindström.

12:00-13:00. Lunch

13:00-15:30. Lab work on plant quality assessment. Cold hardiness and root growth capacity. Dr. Daniel Gräns

15:30-16:00. Coffee break

16:00-18:00. Lab work on plant quality assessment. Morphological traits. Dr. Daniel Gräns

Wednesday September 6, 2023

8:00-9:30. Travel to nursery

9-30-10:00. Coffee break

10:00-12:30. Visit the Stora Enso Sör Amsberg Nursery. Amsbergsvägen 101, /78468 Borlänge, Sweden

12:30-13:30 Lunch

13:30-16:00 Field site visit on a top pruning experiment with conifers

16:00-16:30 Coffee break

16:30-17:30. Travel back to campus of the School for Forest Management at Skinnskatteberg.

Thursday September 7, 2023

8:00-9:30. Lecture by Dr. Douglass Jacobs.

9:30-10:00. Coffee break

10:00-12:00. Lecture by Dr. Douglass Jacobs.

12:00-13:00. Lunch

13:00-15:30 Lab work on plant quality assessment. Cold hardiness. Dr. Daniel Gräns

15:30-15:45 Coffee break

15:45-16:45. Lecture by Elisabeth Wallin.

16:45-17:45: Lecture by Pedro Villar-Salvador.

18:10-18:30: TS social dinner

Friday September 8, 2023

8:00-9:30. Lecture by Dr. Åke Olson.

9:30-10:00. Coffee break

10:00-12:30. Visit field site on trials about protection of seedlings against weevils, somatic embryogenesis, and use of field organic N bio-stimulants.

13:00-14:30. Lunch

14:30-15:30 Synthesis of the training school. Dr. Daniel Gräns