

Simulation in Forest Engineering: Planning the Next Generation of Forest Operations and Logistics for the Challenges of the XXI Century

An internationally collaborative scientific review paper, bringing together researchers from Europe, North America, Central and South America, presented in support of IUFRO Division 3

May 14, 2026 | 8 am Oregon, 11 am Santiago, 5 pm Central European Time | [Via Zoom](#)

AGENDA

Description: This webinar brings together researchers from Austria, Finland, Italy, Guatemala, the United States, and Chile to explore the expanding role of simulation in next-generation forest operations and logistics. The session will highlight how advanced methods—such as discrete event simulation, agent-based modeling, and hybrid approaches are enabling smarter decision-making in forest engineering. Participants, in particular early career scientist, young professionals and students will gain insight into what makes simulation in forestry unique, while exploring current real-world applications and emerging innovations that enhance planning and management across operational, tactical, and strategic levels. The webinar will also examine the evolving role of simulation, moving beyond traditional wood procurement toward the integrated management of ecosystem services.

-
- | | |
|-------|--|
| 00:00 | Welcome
On behalf of the Austrian Federal Ministry of Innovation, Mobility and Infrastructure
Dr. Mindy Crandall, Department Head, Forest Engineering resources and management Department
College of Forestry, Oregon State University
Dr. Woodam Chung, Vice-president IUFRO |
| 00:05 | Simulation in Forest Engineering: Planning the Next Generation of Forest Operations and Logistics for the Challenges of the XXI Century
Dr. René Zamora Cristales, <i>College of Forestry, Oregon State University</i> |



00:15 **Expert Panel Discussion on Challenges and Opportunities**
 Dr. Christoph Kogler, *Austria (BOKU)*
 Dr. Raffaele Spinelli, *Italy, (CNR)*
 Dr. Rosa Alzamora, *Chile, (UdC)*
 Dr. John Sessions, *United States (OSU)*
 Dr. Marco Contreras, *Chile (UACH)*

00:50 **Trends and Future Research Agenda**
 Dr. Christoph Kogler, *Austria (BOKU)*
 Dr. René Zamora Cristales, *College of Forestry, Oregon State University*

01:00 **Adjourn**

Registration link https://oregonstate.zoom.us/webinar/register/WN_H4gbp89WTE2aCv4lQC34Iw



Facultad de
Ciencias Forestales
Universidad de Concepción

