



PROGRAM - WEDNESDAY 10TH OCTOBER 2018

09:00 Registration and coffee

10:00 Opening the Forest & Photonics 2018

Director Marc Palahí, European Forest Institute (EFI)

10:15 Keynotes

[Bioeconomy, cleantech, circular economy](#)

Program Director Sari Tasa, Ministry of Economic Affairs and Employment of Finland

[Virtual Forest](#)

Head of Innovation and Product Development Jussi Jalasjoki, Stora Enso Forest

11:30 Lunch break and demonstrators (check in to rooms)

12:30 Drones in Forestry

- [Status, latest news, test areas in Finland](#), collaboration with European counterparties, hot topics in drone area, Timo Lind, Arctic Drone Labs

- [Drone Laser Scanning](#), Nina Heiska, Nordic Geo Center

- [How Drones Change Forest Planning](#), [Ismo Hippi](#), [Mosaic Mill](#) & [Jussi Rasinmäki](#), [Simosol](#)

13:30 Coffee break and demonstrators (check in to rooms)

14:00 Big Data for Forestry

[Keynote: Forestry 4.0 transforming the forest biomass supply chain in Canada](#)

Associate Professor Forest & Wildfire Operations, Director of Forest Operations Program, Dominik Röser, University of British Columbia (UBC)

- [Assessing tree quality and health using terrestrial point clouds](#), Mikko Vastaranta, UEF

- [Measuring Intra-Seasonal Tree-Height Growth Using Drones](#), Jan Dempewolf, GeoKestrel, Germany

15:15 Drone demo & Coffee break

16:00 Tools for Decision Making in Forestry

- [Use of open data in operative decision making in forestry field operations](#), Vesa Leppänen, Arbonaut

- [Growing Needs for Accurate Road Data to Secure the Wood Logistics](#), Pirjo Venäläinen, Metsäteho

- [Augmented Reality \(AR\) - through Head Up Display's - to off highway vehicles and machines](#), Esteban Arboix, Optea

- [Canada's forest sector – big forests in need of big data](#), Tim Caldecott, FP Innovations

17:25 Evening program and Matchmaking

20:00 Finnish Cuisine buffet with live music and networking

PROGRAM - THURSDAY 11TH OCTOBER 2018

10:00 Sensing and imaging

- [Future Possibilities of Machine Vision](#), Matti Okkonen, VTT
- [Optical Fiber Sensors for Efficient Industrial Processes and Waste Management](#), Alejandro Dominguez-Lopez, InPhoTech

11:30 Lunch break and demonstrators

12:30 Lidars and autonomous driving

- [Towards Automated Driving](#), Matti Kutila, VTT
- [Lidar optics - some applications](#), Jyrki Huttunen, Oplatek Group
- [Applications of lidar imagers in automated forestry and agriculture machinery](#), Santiago Royo, Beamagine

13:30 Coffee and demonstrators

14:00 Photonics for Biorefineries

- [Measuring and monitoring difficult or invisible processes in the industry, forestry and energy sectors](#), Patrick Ottoson, Radar Bolaget
- [Hyperspectral imaging from seedlings to forest, and sawn goods](#), Jouni Jussila, Specim
- [Predicting Product Quality by Utilizing Imaging Measurements, Soft Sensors and Modeling](#), Joni Hattuniemi, Valmet Automations

15:00 Summary and conclusion of the F&P 2018

- Announcing the Forest&Photonics 2019

15:30 The bus leaves to Joensuu Airport

Demo presentations during the event in 10th and 11th.

- Virtual Forest VR (Oculus Rift)
- Tools for buiding trees and undergrowth assets for Virtual Forest

Joensuu Science Park Ltd. reserves the right to make changes to the program.

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 Joensuu Science Park

Photonics 4 Forestry

Koli, Finland | 10 - 11 October 2018

Forest&Photonics 2018

- » Drones & Big Data
- » Robotics & Automation
- » Photonics Technologies for Biorefineries



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