



Forest &

Photonics

10th - 11th of October 2018

Koli National Park - Finland

Forest&Photonics 2018

10th – 11th October, Koli Nature Centre Ukko & Break Sokos Hotel Koli – Yläkolintie 39, 83960 Koli National Park, Finland

Digitalization and new technologies change the forest industry. Already fourth time arranged Forest&Photonics 2018 is for industry, academia, developers and specialists. New technology solutions, opportunities and challenges for forestry are presented in following categories: Drones & Big Data, Robotics & Automation and Photonics Technologies for Biorefineries.

Forest&Photonics is an unique event that brings together the forestry and technology experts to network, collaborate and share their challenges, opportunities and solutions for industry. This event is for forestry and technology companies, researchers, business developers and specialists. Now already fourth time arranged Forest&Photonics has become internationally significant event for professionals of these fields.

Yearly changing themes are focused on current topics including the latest trends for forest- and photonics based technologies. This year themes are drones and lidar technologies in forest industry, Robotics and Automation and New Photonics Technologies for Biorefineries.

The international speakers from five countries together with the latest technology development companies and universities from Finland are leading the discussion by providing interesting insights to the forest- and technology industry.

The event takes place in unique sceneries of Koli National Park in Finland (Starting on 10th October at 09:45 AM and ending on 11th October at 3PM). Venue: Koli Nature Centre Ukko & Break Sokos Hotel Koli - Yläkolintie 39, 83960, Koli, Finland.

Themes for the Forest&Photonics 2018

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

Forest&Photonics is all about

- Top presentations & raw data – Case examples from industry
- Creating new collaboration between forestry & photonics industry
- To share the solutions, opportunities and challenges

Forest&Photonics 2017 feedback

- 93 % found new potential co-operation partner
- 89 % are going to participate next year
- 97 % recommend Forest & Photonics

JOENSUU SCIENCE PARK |  JOENSUU

Photonics 4
Forestry

Koli, Finland | 10 - 11 October 2018

Forest&Photonics 2018

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




PHOTONICS²¹

PHOTONICS PUBLIC PRIVATE PARTNERSHIP



Forest&Photonics 2018 speakers

Keynote: Program Director Sari Tasa, **Ministry of Economic Affairs and Employment of Finland**, bioeconomy, cleantech, circular economy

Timo Lind, **Arctic Drone Labs**, *Status, latest news, test areas in Finland and hot topics in drone area*,

Jouni Jussila, **Specim**, *Hyperspectral imaging from seedlings to forest, and sawn goods*,

Santiago Royo, **Beamagine (Spain)**,
Applications of lidar imagers in automated forestry and agriculture machinery,

Pirjo Venäläinen, **Metsäteho**, *Growing Needs for Accurate Road Data to Secure the Wood Logistics*,

Mikko Vastaranta, **UEF**, *Assessing tree quality and health using terrestrial point clouds*,

Ismo Hippo, **Mosaic Mill** & Jussi Rasinmäki, **Simosol**, *How Drones Change Forest Planning*,

Vesa Leppänen, **Arbonaut**, *Use of open data in operative decision making in forestry field operations*,

Patrick Ottoson, **Radar Bolaget (Sweden)**
Measuring and monitoring difficult or invisible processes in the industry, forestry and energy sectors,

Henri Klemmer, **Hepta Group (Estonia)**, *Next generation drones and AI related to Big Data analys*,

Matti Kutila, **VTT**, *Towards Automated Driving*,

Sergey Sedykh, **Vlabor Photonics**, *3D LIDAR sensors for robotics, autonomous vehicles and UAVs*,

Jan Dempewolf, **University of Maryland, the Department of Geographical Sciences (USA)**
Detecting windthrows with satellite data,

Joni Hattuniemi, **Valmet Automation**
Predicting Product Quality by Utilizing Imaging Measurements, Soft Sensors and Modeling,

Aleksandra Karimaa, **Gasera** , *Disrupting environmental monitoring*,

Esteban Arboix, **Optea (Sweden)**,
Augmented Reality (AR) - through Head Up Display's - to off highway vehicles and machines,

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

Forest&Photonics is free of charge when registering not later than 9th of September 2018. Please, remember to make your registration [here](#). For more information, please contact Juha Purmonen, juha.purmonen@tiedepuisto.fi or call +358503543832. Also follow us on Twitter @forestphotonics or our website www.tiedepuisto.fi/fp.

