



Forest &

Photonics

10th - 11th of October 2018

Sokos Hotel Break - Koli, Finland

Forest&Photonics 2018, 10th – 11th October, Koli National Park, 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



Keynote Speakers - 2017



Jaakko Kuusisaari
Director
Head of Wood and Fibre Solutions
Tieto Corporation

Tieto aims to capture the significant opportunities of the data-driven world and turn them into lifelong value for people, business and society. Having a strong role in the ecosystems, Tieto helps customers to renew their businesses by capturing the opportunities of modernization, digitalization and innovation and to foster new opportunities based on openness, co-innovation and ecosystems.



Ali Harlin
Research Professor,
VTT Technical Research Centre
of Finland Ltd

VTT Technical Research Centre of Finland Ltd is one of the leading research and technology organisations in Europe. VTT has a national mandate in Finland. VTT uses research and knowledge to provide expert services for our domestic and international customers and partners.



Patrick Halford
Director,
Nordic Robotics & Drones Ecosystem
IBM Ltd

Building IBM's alliances across robotic, drone and healthcare ecosystems, helping clients, start-ups, system integrators and partners utilise IBM Watson and other technologies to solve complex challenges across agriculture, construction, transport, energy and healthcare industries.



Speaker list – Wednesday 20th September 2017



Executive Director of Economic Development and Growth Mikko Härkönen, City of Joensuu, *"Opening the Forest & Photonics 2017"*



Development Manager, Jouni Jussila, Specim Ltd, *"Novel hyperspectral imaging for field use"*



Director Jaakko Kuusisaari
Tieto Corporation, Wood and Fibre Solutions
"Keynote speech"



Professor Markku Keinänen, UEF, Department of Environmental and Biological Sciences, *"Assigning tree and wood quality for hyperspectral imaging"*



CTO Vesa Leppänen, Arbonaut Ltd,
"LIDAR forest inventory data: application for optimizing road construction and wood procurement costs"



Professor Marcos X. Álvarez Cid, Enterprise and Galician University Foundation – FEUGA, *"Imaging for wood quality control"*



Development Manager Veikko Miettinen,
Joensuu Science Park Ltd,
"VR, AR and virtual forest"



CEO Jere Heikkinen, Finnos Ltd,
"Photonics measurement technologies for wood industry"



Senior researcher Eugene Lopatin, Luke - Natural Resources Institute Finland, *"Operational low-cost tree-wise forest inventory using multispectral cameras mounted on drones"*



Associate professor Mikko Linnolahti, UEF, Department of Chemistry, *"High efficiency LED lighting based on rotating molecule"*



CTO Pasi Karppinen, ProtoRhino Ltd,
"Future photonics measurement applications in Forest industry"



CEO Seppo Huurinainen, MHG Systems Oy Ltd, *"DataBio forestry pilot component Wuudis Service interfaces with multiple big data sources making forestry management and data sharing easy"*



Research Professor Ali Harlin, VTT, Bioprocessing of Renewable Natural Materials, *"Keynote speech"*

Speaker list – Thursday 21st September 2017



CEO Antti Sunnari,
Dispelix Ltd,
"Augmented reality in industry use"



Technology Manager Tomi Virolainen, Plytec Ltd,
"Needs for plywood manufacture: measurement of veneer surface quality"



Senior researcher Roman Bednarik,
UEF, School of Computing,
"Improving efficiency through gaze tracking"



Professor Markus Holopainen,
University of Helsinki, Department of Forest Sciences,
"3D/4D Precision forestry"



Key Account Manager Kimmo Solehmainen,
VTT,
"Photonics solutions for smart machines"



Researcher Jukka Antikainen,
Luke - Natural Resources Institute Finland,
"Predicting inner quality of Scots pine logs during harvesting"



CEO Markus Melander, Vionice Ltd,
"Smartphone application and intuitive map-based web interface for Forest transportation"



Nordic Robotics & Drones Ecosystem Director
Patrick Halford, IBM Ltd,
Keynote speech: "Building ecosystems to drive economic growth across Forest & Photonics using examples from other Nordic industries & regions"



Professor Arto Visala,
Aalto University,
"Forest and tree measurements from forest machine"



CEO Mikko Miettinen,
Argone Ltd,
"Forest and tree measurements from forest machine"

Participating Companies



Participating Organisations

