

Light-Based Solutions for Agriculture, Veterinary and Ecology

Uppsala | 19-20 May 2016

Workshop

- » Talks by Photonics and End-user Experts
- » Partnering & Networking
- » Exhibition
- » Guided Tours



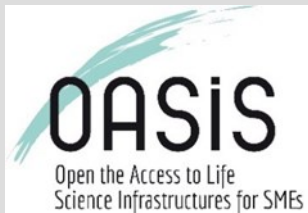
PHOTONICS PUBLIC PRIVATE PARTNERSHIP

PHOTONICS²¹



GENERAL INFORMATION

 **PhotonicSweden**
The Swedish Technology Platform in Optics and Photonics



REGISTRATION:

Please register for free: www.delegia.com/oasis2016

DATE:

Thursday May 19, 10 am, to Friday May 20, 2 pm.

WORKSHOP VENUE

Swedish Agricultural University (< 1 km from SVA), Uppsala, Sweden

[www.photonicsweden.com/files/workshop_PH21_OASIS/Travel to Uppsala.pdf](http://www.photonicsweden.com/files/workshop_PH21_OASIS/Travel%20to%20Uppsala.pdf)

HOTELS

<http://www.destination uppsala.se/en/Stay/>

EXHIBITION

Please contact Petra Bindig (petra@photonicsweden.org) if you are interested in exhibiting (table top, roll up).

WORKSHOP,, EXHIBITION, MATCH-MAKING and GUIDED TOURS

will be held in parallel to the technical sessions to provide industry, institutes and associations an opportunity to display their products and services and bridge the gap between science and industry.

FURTHER INFORMATION

For further information please go to

www.photonicsweden.org

THURSDAY, 19 MAY 2016

8.:30 -10:00

On-site registration and welcome coffee

Room: **Övre foajén**

10:00 -12:00

Session 1 | The Background

Welcome

Pierre-Yves Fonjallaz, PhotonicSweden

Room: **Sal L**

10:00 -10:10

Presentation of the EU project OASIS

Cecilia Pinto, Optitec, France

10:10 - 10:20

Light – what is photonics?

Magnus Breidne, The Royal Swedish Academy of Engineering Sciences (IVA), Chairman PhotonicSweden

10:20 -10:40

Biophotonics in Europe

Prof. Roberto Pini, Institute of Applied Physics - CNR and OPTOSCANA

10:40 -10:50

Photonics and Biophotonics in Sweden

Pierre-Yves Fonjallaz, PhotonicSweden

10:50 - 11:05

Possibilities for Agriculture and Livestock Farming using Light-Based Technologies

- Visions from applied research with focus on dairy production -

Mårten Hetta, Swedish Agricultural University (SLU)

11:05 -11:20

Healthy animals. Safe humans. – An overview of the National Veterinary Institute

Prof. Karin Artursson, SVA, & SLU

11:20 -11:40

EU Calls for the participants of this workshop

Ziga Valic & TBD, Optitec and SLU's Grants Office

11:40 -12:00

European Biophotonics Platform

Guus Taminiau, Photonics Netherlands

12:00 -13:00

Room: **Övre foajén**

Lunch & Exhibition

13:00 - 15:00

Session 2 | Light on/for Veterinary and Ecology

13:00 - 13:20

Molecular techniques in veterinary infectious disease diagnostics
Mikael Leijon, National Veterinary Institute (SVA)

Room: **Sal L**

13:20 - 13:35

TBA

13:35 - 13:50

IR imaging for environmental and veterinary applications
Lea Dabiri, FLIR Systems

13:50 - 14:05

Imaging systems for large animals
Damiano Fortuna, IMAGINALIS S.r.l., Italy

14:05 - 14:20

Sensors for continuous measurement of water quality in streams (TBC)
Jens Fölster, Swedish Agricultural University

14:20 - 14:35

Airborne bathymetric and topographic multi sensor LiDAR
Axel Axelsson, Airborne Hydrography

14:35 - 14:50

TBA

15:00 - 15:30

Coffee Break

Room: Övre foajén

15:30 - 17:00

Session 3 | Pitches from companies and End-users

15:30 - 17:00

Companies or technology providers present their solutions and their offer.
End-users present their needs. Every pitch is max 4 minutes long. There is a very strict time-keeper. Max 15 Pitches

Room: Övre foajén

17:10 - 18:20

Session 4 | Match-Making

End-users and technology providers discuss in groups of 6-8 persons. Probably 3 x 15-20 minutes.

20:00-22:00

Conference Dinner

Location: **Restaurang Linnéträdgården in down-town Uppsala**

09:00 - 10:30

Session 5 | Light on/for Ecology and Agriculture

09:00-09:15

Room: **Sal L**

Vegetation analysis from ground and satellites
Prof. Lars Eklundh, Lund University

09:15 - 09:30

Automated plant stress detection and fruits quality control
Danijela Vukadinovic, Wageningen University, Netherlands

09:30 - 09:45

Novitom - Easing the Access to Synchrotron-based Analytics for SMEs
Dr. Bernhard Hesse, Novitom

09:45 - 10:15

Precision Farming (tutorial)
Dr. Bo Stenberg, Swedish Agricultural University (SLU)

10:15 - 10:30

TBA

10:30 - 11:00

Room: **Övre foajén**

Coffee Break exhibition

11:00 - 12:30

Session 6 | Light on/for Agriculture

11:00-11:30

Room: **Sal L**

How photonics can transform farming
Per Warg & Gösta Forsén, DeLaval & Farmic

11:30-11:45

IR spectroscopy as a tool to understand environmental stress in plant pathology
Saroj Kumar, Uppsala University, Dept. Engineering Sciences

11:45 - 12:00

An intelligent LED greenhouse lighting system with feedback control
Daniel Bänkestad & Johan Lindqvist, Heliospectra

12:00 - 12:15

Non-destructive optical method for phenotypic analysis of early stage tree seedlings growth
Cristina Rusu, Acreo Swedish ICT

12:15 - 12:30

Concluding remarks
Pierre-Yves Fonjallaz & Ziga Valic, PhotonicSweden and Optitec

12:30 - 14:00

Room: **Övre foajén****Lunch & exhibition****14:00 - 16:00 End of workshop and guided tours**