



# Spectroscopy in Denmark

## Applications, Developments and Hardware

Get-together day arranged by the Danish Optical Society (DOPS)

Location: DTU Risø, Niels Bohr Auditorium/Koch Auditorium  
Time: September 30, 2015

The Danish Optical Society is hosting a day where distributors, developers of hardware and users will have the opportunity to meet, discuss and share their area of interest with others in the field.

### A Unique Opportunity

This seminar will give the participants from all branches of the field a unique opportunity to meet, discuss and exchange ideas, recommendations and tie new relations.

### Presentations

Industrial users of spectroscopic equipment are urged to give oral presentations of their present applications and their forecasts for future applications. These presentations should address both users in the universities as well as the manufacturers, thus paving the road for future collaboration.

Users and developers at universities are asked to give presentations of their ongoing work in the field.

Presentations in Danish or English language are accepted. A short abstract of the presentation including the title and the presenter should be sent to Steen G. Hanson (vsgh@fotonik.dtu.dk) before **September 15**.

### Practical Information

Manufacturers and representatives of spectroscopy equipment will have the opportunity to set up a booth where their equipment can be displayed. The booth is free if the company is member of DOPS. The fee for a booth for non-members will be DKK 1250,- . Also, there will be time available for shorter oral presentations, where emphasis should be on future developments and associated equipment.

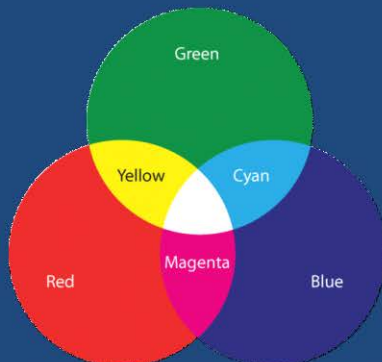
### Registration

The preliminary and the final program as well as a link for signing up for the Spectroscopy Day will soon be available on DOPS' home page [www.dops.dk](http://www.dops.dk).

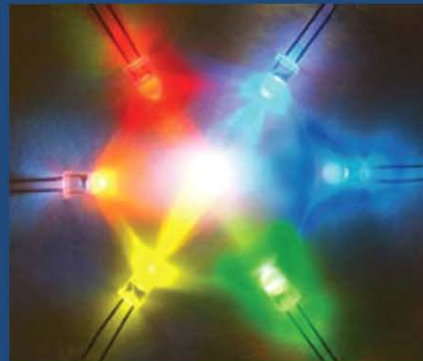
### More

A lunch at the site will be arranged in order to provide extra time for seeing the exhibitions and for mutual discussions. A dinner will be sought arranged on Roskilde Fjord on the steam boat Sagafjord

	DOPS Members	Non-members
Participation including lunch & dinner	DKK 1.000,00	DKK 1.250,00
Participation including lunch	DKK 375,00	DKK 625,00
Student including lunch	DKK 100,00	DKK 200,00



Schematic of additive color mixing of three primary colors.



Additive color mixing using LEDs.



**Spectroscopy Day 2015**  
**Niels Bohr Auditorium, DTU Risø, Roskilde**  
**Wednesday, September 30, 2015**

<b>Registration and breakfast</b>	8:30 – 9:00
<b>Welcome</b> <i>Steen Gruner Hanson</i>	9:00 – 9:10
<b>Session I</b>	9:10 – 10:30
<b>Chair: Jes Broeng, DTU Fotonik</b>	
<b>AGILENT CARY 7000 Universal Measurement Spectrophotometer (UMS) for accurate characterization of cube beamsplitters</b>	
<i>Rob Wills, Agilent</i> .....	9:10 – 9:30
<b>The birth and life of a startup company.</b>	
<i>Stefan Ovesen, RSP Systems</i> .....	9:30 – 9:50
<b>Linear Variable Filters for Applications in Spectroscopy and Hyper Spectral Imaging</b>	
<i>Henrik Fabricius, DELTA, Optical Thin film</i> .....	9:50 – 10:10
<b>A Method for Controlled Oxidation of Lube and Hydraulic Oils and Investigation of the Effects on Oil Parameters</b>	
<i>Morten Henneberg, C C Jensen A/S</i> .....	10:10 – 10:20
<b>Practical aspects of Light</b>	
<i>Asger Bay Christianse, Laboratoriet LYS &amp; SYN</i> .....	10:20 – 10:50
<b>Coffee and Exhibition</b>	10:50 – 11:10

Session II 11:10 – 12:10

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**Chair: René Lyng Eriksen, SDU**

*Fahlvik Svensson/ Kristofer Bodvard, Azpect Photonics AB*..... 11:10 – 11:20

*Michael Reesen, LISCO Analytical* ..... 11:20 – 11:30

*Markus Wyndham, Laser 2000 GmbH*..... 11:30 – 11:40

*Hans-Christian Becker, Gammadata Instrument AB*..... 11:40 – 11:50

*Botes Konradsson, Optonyx AB*..... 11:50 – 12:00

*Feisal Kroushawi, Ara Scientific*..... 12:00 – 12:10

**Sandwiches and Exhibition** 12:10 – 13:30

Session III 13:30 – 14:45

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**Chair: Thomas Rasmussen, IBSEN Photonics A/S**

**THZ Spectroscopy, today, and tomorrow!**

*Peter Uhd Jepsen, DTU Fotonik* 13:30 – 13:50

**A novel speckle-based wavemeter**

*Michael Linde Jakobsen, DTU Fotonik* 13:50 – 14:10

**In situ Marine Emission Sensor**

*René Skov Hansen, Danfoss IXA A/S* 14:10 – 14:30

**Mid-infrared nonlinear upconversion spectroscopy and imaging**

*Peter Tidemand Lichtenberg, DTU Fotonik* 14:30 – 14:50

**Coffee and Exhibition** 14:50 – 15:20

Session IV

15:20 – 17:00

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**Chair: Henrik Fabricius, DELTA**

**Luminescence imaging and spectroscopy with the Risø TL/OSL reader**

*Torben Lapp, DTU NUTECH*

15:20 – 15:40

**Precision measurements with lasers**

*David Balslev-Harder, DFM*

15:40 – 16:00

**Time-resolved photoluminescence spectroscopy of organic-plasmonic hybrids**

*Till Leissner, NanoSYD, Mads Clausen Institute, University of Southern Denmark*

16:00 – 16:20

**Spectroscopy at Lund University**

*Li Zhungshan, Lund University*

16:20 – 16:40

**Freedom: Compact spectrometers with high performance**

*Thomas Rasmussen, IBSEN Photonics A/S*

16:40 – 17:00

**Farewell.....Steen Grüner Hanson**

**Dinner at “Sagafjord” in the harbour of Roskilde for the ones who signed up for this excursion. Participants shall be at “Sagafjord” before 18:30**

18:00 – 21:00