



Svenska OptikSällskapet

Swedish Optical Society

the Swedish Branch of the European Optical Society



Optics in Sweden 2010

Palestra Conference Hall, Lundagård / Universitetsplatsen, Lund

Day 1: Tuesday, October 19th, 2010

09:00 - 10:00 Registration & coffee & exhibition & poster session

10:00 Morning session

10:00 - 10:05 *Introduction by Prof. Sune Svanberg*

10:05 - 10:10 *Address of welcome by the Vice Chancellor of Lund University, Prof. Per Eriksson*

10:10 - 10:20 *PhotonicSweden - Our national photonic platform, Prof. Fredrik Laurell, KTH*

10:20 - 10:40 *Quantum error correction — emendo noli me tangere, Prof. Gunnar Björk, ADOPT Photonics Centre, KTH/SU*

10:40 - 11:00 *Optical fingerprinting with ubiquitous instrumentation - a possible platform for distributed environmental monitoring, Prof. Ingemar Lundström, IFM-LiU*

11:00 - 11:20 *The ultrafast time scale of solar energy conversion, Prof. Villy Sundström, LU*

11:20 - 11:50 *From basic nanoscience to LED commercialization, Prof. Lars Samuelson, LU*

11:50 - 13:00 Lunch

Parallel session 1:

13:00 - 13:20 *Application of laser techniques for combustion diagnostics, Dr. Joakim Bood, LU*

13:20 - 13:40 *Measurements of gaseous compounds using optical methods, Civ.ing. Svante Wallin, Opsis AB, Lund*

13:40 - 14:00 *An optical view on wind energy, Dr. Mikael Sjöholm, Risoe National Laboratory, DTU*

14:00 - 14:20 *Dye-sensitized solar cells, Dr. Gerrit Boschloo, UU*

14:20 - 14:40 *Activities at Adopticum - Center for industrial optics, Jonas Sjöberg*

Parallel session 2:

UV emitters and quantum cascade lasers for telecommunications wavelengths, Docent Tommy Ive, CTH

Optical manipulation in microsuspensions, Prof. Dag Hanstorp, GU

Diode laser gas spectroscopy for medical diagnostics, Civ.ing. Märta Lewander, LU

Second-order nonlinear devices in telecommunications systems, Dr. Katia Gallo, KTH

Imaging of blood using photoacoustic holography, Dr. Erik Olsson, LTU

14:40 - 15:10 Coffee & exhibition & poster session

15:10 - 15:40 *Coupling of silicon nanophotonics to the real world of optical fibers, Prof. Lech Wosinski, KTH*

15:40 - 16:10 *The European Spallation Source ESS, Dr. Mats Lindroos, ESS*

16:10 - 16:40 *The MAXlab Synchrotron radiation facility-plans for MAX IV, Nils Mårtensson, Director of MAXlab*

16:40 - 16:50 *Swedoptronics price 2010 for the best optronics company and the two best M.Sc. theses*

16:50 - 17:00 *European Optical Society Fellow diploma presentation*

17:00 - 18:00 Exhibition & poster session

**** SOS Årsstämma-2010 ****

18:00 - 19:00 Break

19:00 - 19:30 Drink at Grand Hotel Lund

19:30 - 23:59 Dinner at Grand Hotel Lund

After dinner speaker, Prof. Arne Ardeberg, Department of Astronomy, Lund University

An increasingly wide-eyed world. Large telescopes for little light



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Day 2: Wednesday, October 20th, 2010

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|----------------------|---|
| 09:00 | Morning session |
| 09:00 - 09:30 | <i>High-harmonics and attosecond pulse generation and applications, Prof. Anne L'Huillier, LU</i> |
| 09:30 - 11:30 | Laboratory tours |
| | <ul style="list-style-type: none">• Visit to Atomic Physics• Visit to Combustion Physics• Visit to Chemical Physics• Visit to Lund Observatory• Visit to MAXlab |
| 11:30 - 12:45 | Lunch |
| 12:45 - 13:15 | <i>Camera phone image quality, Henrik Eliasson, Sony Ericsson, Lund</i> |
| 13:15 - 13:45 | <i>Frustrated total internal reflection (FTIR) based multi-touch system, Ola Wassvik, Co-founder and CTO at FlatFrog Laboratories AB, Lund</i> |
| 13:45 - 14:15 | <i>Atmospheric research with femtosecond lasers - From LIDAR to lightning protection, Prof. Ludger Wöste, Freie Universität Berlin</i> |
| 14:15 - 14:45 | Coffe & exhibition & poster session |
| 14:45 - 15:45 | <i>Optical fibre technology and the global internet - where to next?, Prof. David Payne, University of Southampton, UK, - Rydberg lecture sponsored by the Royal Academy of Sciences</i> |
| 15:45 - 16:45 | <i>The Laser - The first 50 years, Prof. Sune Svanberg, LU</i> |
| 16:45 | Conference ends |

Welcome to the Swedish Optical Society conference this year, the 50th anniversary of the first demonstration of laser action, organized by the Lund Laser Centre as host.

SOS Annual Meeting 2010 will be held at the Conference.

In connection with the meeting being an exhibition of relevant products in the field of optics and a poster exhibition.

The following persons have been involved in organizing this event:

Program committee:

Lennart BM Svensson (Chairman)
Stefan Andersson-Engels
Per-Erik Bengtsson
Pierre-Yves Fonjallaz
Emil Hällstig
Ulf Olin
Lars Rippe
Gabriel Somesfalean
Sune Svanberg

Local committee in Lund:

Sune Svanberg (Chairman)
Stefan Andersson-Engels
Per-Erik Bengtsson
Camilla Nilsson
Minna Ramkull
Lars Rippe
Gabriel Somesfalean



SOS

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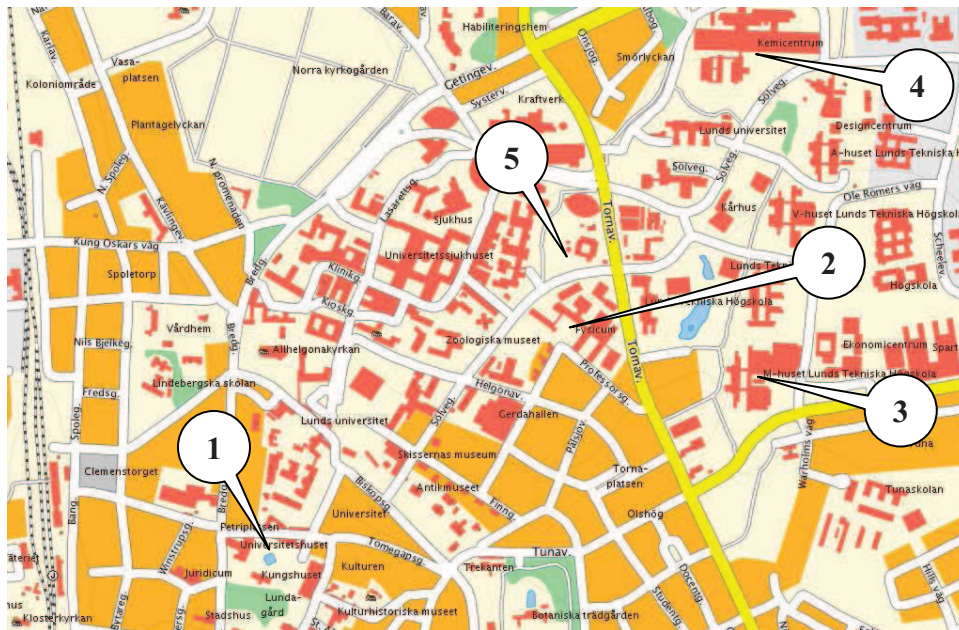
| Table | Exhibitors at Optics in Sweden-2010 |
|-------|-------------------------------------|
| 1 | SiTek Electro Optics |
| 2 | Thorlabs Sweden AB |
| 3 | Laser 2000 GmbH |
| 4 | Azpect Photonics AB |
| 5 | Bfi OPTiLAS AB |
| 6 | TOPTICA Photonics AG |
| 7 | CVI Melles Griot |
| 8 | Anoto AB |
| 9 | Hamamatsu Photonics Norden AB |
| 10 | Gammadata Instrument AB |
| 11 | Fiber Optic Valley AB |
| 12 | Optronic i Norden AB |
| 13 | Acreo AB |
| 14 | Andor Technology |
| 15 | von Gegerfelt Photonics |
| 16 | Cobolt AB |
| 17 | Focotech |
| 18 | Metric Industrial AB |
| 19 | Yokogawa Measurements Technologies |
| 20 | Parameter |



Lund Laser Centre and MAX-lab

October 20, 10.00 - 11.30

- Since the laboratories at Lund Laser Centre and MAX-lab are spread over the campus, and the time for the visits is limited, the conference participants have to select a main laboratory for the visit; Atomic Physics, Combustion Physics, Chemical Physics, Lund Observatory, or MAX-lab.
- Sign up for a laboratory visit at the reception desk at latest 15.00 on Tuesday October 19 to simplify the planning of the laboratory tours.
- After the morning talk ending 9.30 on Wednesday October 20, guides will follow each of the groups to Atomic Physics, Combustion Physics, Chemical Physics, Lund Observatory, and MAX-lab to their respective laboratories.
- There will be some possibilities to cross over from one laboratory to another. Guides from Atomic Physics and Combustion Physics will be present in the reception of the Physics department (number 2 on the map) to help people arriving occasionally to join the laboratory tours at Atomic Physics and Combustion Physics, respectively.



1. Palaestra (Conference main location)
2. Department of Physics (Atomic Physics, Combustion Physics).
The reception is where the letter y is in Fysicum.
3. MAX-lab
4. Chemical Physics
5. Lund Observatory



Rydberg Lecture 2010

Wednesday, October 20, at 14:45

Palestra Conference Centre, Lund University Park, Lund

With the support by the Royal Swedish Academy of Sciences through its Nobel Institute for Physics, Rydberg Lectures are arranged in Lund. The lecture of this year will be given by

Professor David Payne

Optoelectronics Research Centre, University of Southampton,
Great Britain

“Optical Fibre Technology and the Global Internet

—
Where to Next?”

Refreshments are served from 14:15

The Rydberg Lecture is given in conjunction with the closing of the Optics in Sweden Conference www.svenskaoptiksallskapet.se

The day is concluded by a public lecture on the occasion of the 50 year anniversary of the laser (starts 15:45):

**Professor Sune Svanberg
Lund Laser Centre**

“The Laser – The first 50 Years”

Most Welcome !



**KUNGL.
VETENSKAPSAKADEMIEN**
THE ROYAL SWEDISH ACADEMY OF SCIENCES