



DOPS

Dansk Optisk Selskab

Dansk Optisk Selskabs årsmøde 2010

Risø DTU, 25. og 26. november 2010

Thursday, November 25, 2010

Registrering 9:00 – 10:00

DOPS Generalforsamling 10:00 – 11:30

1. Valg af dirigent
2. Valg af stemmetællere
3. Formandens beretning
4. Valg af formand for 2011
5. Valg af bestyrelsesmedlemmer
6. Valg af suppleanter til bestyrelsen
7. Diskussion af mødeinitiativer i 2011
8. Godkendelse af regnskab for 2009
9. Fremlæggelse af budget for 2010 og 2011
10. Valg af to revisorer
11. Orientering om DOPS NYT
12. Orientering om DOPS' Web
13. Indkomne forslag
14. Eventuelt

Ifølge DOPS' vedtægter er formanden på valg hvert år, men kan genvælges. Den nuværende formand (Steen G. Hanson) genopstiller. Bestyrelsesmedlemmer er på valg hvert andet år, og suppleanter til bestyrelsen er på valg hvert år.

I år er Kent Matsson og Kasper Paasch på valg som bestyrelsesmedlemmer. Kent trækker sig, bestyrelsen foreslår Jes Broeng opstiller. Kasper genopstiller.

Peter Lichtenberg, Finn Mengel og Mike van der Poel er på valg som suppleanter. Alle tre genopstiller. Andre forslag til opstilling af ny formand eller medlemmer/suppleanter bedes meddelt Steen G. Hanson, (tlf. nr.: 4677 4504, fax nr.: 4677 4565, e-mail (steen.hanson@fotonik.dtu.dk) inden den 15. november 2010.

Som revisorer opstilles Torben Jacobsen, Ibsen Photonics, og Mads Sckerl, Grundfos.

DOPS Junior Prize and lecture given by the receiver:	11:30 – 12:00
DOPS Prize and lecture given by the receiver	12:00 – 12:30
Lunch	12:30 – 13:30
Session I <i>Food Analysis</i>	13:30 – 15:15

Chair:

rasmus Larsen, IMM DTU

Differential dynamic microscopy: A novel tool for food science? (invited)

Dr. Roberto Cerbino, Dipartimento di Chimica, Biochimica e Biotecnologie per la Medicina, Università degli Studi di Milano, Milano, Italy

..... 13:30 – 14:15

Spectral imaging for food applications

Associate Professor Jens Michael Carstensen, DTU informatics

..... 14:15 – 14:35

NIR spectrometers used for food analysis

Dr. Thomas Rasmussen, Ibsen Photonics A/S, Denmark

..... 14:35 – 14:55

In-Situ, Non-Destructive Control Of Food Quality Using Raman Spectroscopy And Multivariate Analysis

L. S. Christensen, M. Hedegaard, K. D. Jernshøj, S. Hassing

University of Southern Denmark, Institute of Sensors, Signals and Electrotechnics (SENSE), Odense, Denmark

..... 14:55 – 15:15

Coffee, poster and exhibition

..... 15:15 – 16:00

Session II <i>Nano-Photonics</i>	16:00 – 17:50
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Chair:

Jes Broeng, NKT Photonics A/S, Denmark

Plasmon-based nanophotonics: Fundamental issues and practical perspectives Light Physics. (invited)

Prof. Sergey I. Bozhevolnyi, Institute of Sensors, Signals and Electrotechnics (SENSE), University of Southern Denmark, Odense

..... 16:00 – 16:30

Controlling the Coupling of Nitrogen Vacancy Centers to a Silver Nanowire

Alexander Huck, Shailesh Kumar, and Ulrik L. Andersen, Department of Physics, Technical University of Denmark, Kgs. Lyngby, Denmark

..... 16:30 – 16:50

Holey-structured metamaterials make perfect endoscopes

Jesper Jung,^{1,3} Luis Martín-Moreno,² and Francisco J. García-Vidal³

¹Department of Physics and Nanotechnology, Aalborg University, Aalborg Øst, Denmark, ²Departamento de Física de la Materia Condensada and Instituto de Ciencia de Materials de Aragón (ICMA), CISC-Universidad de

Zaragoza, Zaragoza, Spain, ³Departamento de Física Teórica de la Materia Condensada, Universidad Autónoma de Madrid, Madrid, Spain

.....	16:50 – 17:10
Guidelines for 1D-periodic surface microstructures for antireflective lenses	
<i>Thomas Søndergaard, Jesper Gadegaard, Peter Kjær Kristensen, Thøger Kari Jensen, Thomas Garm Pedersen, and Kjeld Pedersen, Department of Physics and Nanotechnology, Aalborg University, Aalborg Øst, Denmark</i>	
.....	17:10 – 17:30
Infrared supercontinuum for seeing the invisible	
<i>Lasse Leick, Carsten L. Thomsen, NKT Photonics, Søren Keiding, Aarhus Universitet, Ole Bang, DTU Fotonik</i>	
.....	17:30 – 17:50
Posters, exhibition, snacks & beer	17.50 – 19:00
Dinner	19:00 – 20:30
After-dinner-lecture by Niels Kristian Højerslev: The Optical Alphabet	20:30 – 21:15
End of first day	21:15

Friday, November 26, 2010

Session III *Bio-optics* 8:40 – 10.45

Chair:

Peter E. Andersen, DTU Fotonik

Measuring ionising radiation with fibre-coupled organic scintillators

Lars R. Lindvold, Radiation Research Division, Risø DTU, 4000 Roskilde, Denmark

..... 8:40 – 9:00

Spectroscopy of macromolecular ions in vacuo

Associate Professor, Steen Brøndsted, Department of Physics and Astronomy, Aarhus University, Denmark

..... 9:00 – 9:20

Ultrafast fluorescence lifetime imaging - for cell biology, high content analysis and label-free diagnosis (Invited)

Professor Paul French, Photonics Group, Physics Department, Imperial College London, GB.

..... 9:20 – 10:05

Back-Scattering Interferometry – label-free biosensing

Henrik Schiøtt Sørensen, Meijie Li, Thomas Martini Jørgensen, and Peter E Andersen, DTU Fotonik, Denmark

..... 10:05 – 10:25

Analyte focusing at self assembling hotspots for SERS by leaning silver coated silicon nanopillars

Michael Stenbæk Schmidt¹, Jörg Hübner², Anja Boisen¹ ¹DTU Nanotech, ²DTU Danchi, Denmark

..... 10:25 – 10:45

Coffee, poster and exhibition 10:45 – 11:10

Poster Prize 11:10 – 11:15

Session IV *Combustion Diagnostics* 11:15 – 13:00

Chair:

Dr. Sønnik Clausen, Research Division, Risø DTU, Roskilde, Denmark

Recent developments in laser diagnostics of combustion processes (Invited)

Prof. Marcus Aldén, Division of Combustion Physics, Dept. of Physics, Lund Institute of Technology, Lund, Sweden

..... 11:15 – 12:00

Optical combustion diagnostics on a large two-stroke marine Diesel engine

Johan Hult, Hanne Hostrup Poulsen, Stefan Mayer, MAN Diesel&Turbo, Copenhagen, Denmark

..... 12:00 – 12:20

A multichannel spectroscopic system for simultaneous gas temperature measurements from several lines of sight

Vadim Evseev^a, Karsten L. Nielsen^a, Sønnik Clausen^a, Alexander Fateev^a, Valery Sizikov^b

^a Technical University of Denmark, Risø National Laboratory for Sustainable Energy, Denmark

^b National Research University of Information Technologies, Mechanics and Optics, Saint Petersburg, Russia

..... 12:20 – 12:40

Special presentation: Lighting

LED's in Entertainment Lighting

Dennis Thykjær Jørgensen, Martin Professional A/S

..... 12:40 – 13:00

Closing Remarks

Steen G. Hanson, Fotonik, DTU

Lunch and Exhibition

..... 13:00 – 14:00