



DOPS Annual Conference 2017
Oticonsalen, DTU Lyngby Campus
 9. and 10. November 2017

Thursday, November 9, 2017

Registration, coffee and bread 8:45 – 9:30

Technical Session I 9:30 – 10:40

Chair:

Anders Clausen, DTU Fotonik

Open Entrepreneurship - Opportunities for Photonics Start-ups and Corporate Innovation (Invited)

Jes Broeng, DTU Fotonik 9:30 – 9:55

Robust and power scalable supercontinuum source based on highly GeO₂ doped silica fiber

Deepak Jain, DTU Fotonik 9:55 – 10:10

Non-destructive testing of layer-to-layer fusion of a 3D print using ultrahigh resolution optical coherence tomography

Michael Maria, DTU Fotonik/NKT Photonics 10:10 – 10:25

Nonlinear self-carver using Fano resonance

Dagmawi Alemayehu Bekele, DTU Fotonik 10:25 – 10:40

Break and exhibition 10:40 – 11:05

Technical Session II

11:05 – 12:10

Chair:

Thomas Søndergaard, Aalborg University, Department of Physics and Nanotechnology

Sensing beyond the standard limits (Invited)

Ulrik Lund Andersen, DTU Physics 11:05 – 11:30

Thermal noise in PPLN up-converter

Ajanta Barh, DTU Fotonik 11:30 – 11:45

Detection of glaucoma using high-resolution OCT (Invited)

Patrick Bowen, NKT Photonics 11:45 – 12:10

Lunch and exhibition 12:10 – 13:10

Product Presentations,

13:10 – 14.00

Chair: *Kasper Paasch, University of Southern Denmark*

Ekspla, Thorlabs, ACAL BFI, von Gegerfelt, Azpect Photonics, NKT Photonics, Nanor, Metronic

Break and exhibition 14:00 – 14:35

Technical Session III

14:35 – 15:45

Chair:

Kasper Paasch, University of Southern Denmark

Adapting optical technologies: Archaeology (Invited)

Mathias C. Broch, Holstebro Museum 14:35 – 15:00

Single Photon Sources in AlGaAs Nanowires

Lorenzo Leandro, DTU Fotonik 15:00 – 15:15

A new high-fidelity phase retrieval technique robust towards measurement imperfections and incoherent light

Anders Kragh Hansen, DTU Fotonik 15:15 – 15:30

Direct amplitude-phase near-field observation of higher-order anapole states

Volodymyr Zenin, Centre for Nano Optics, University of Southern Denmark 15:30– 15:45

Wavelength tunable MEMS VCSEL for OCT Imaging

Hitesh Kumar Sahoo, DTU Fotonik 15:45– 16:00

Posters, exhibition, snacks & beer..... 16:00 – 18:00

Dinner..... 18:00 – 20:00

After-dinner-lecture: DTU Roadrunners – ecocars and "real" cars

Jesper Schramm, DTU Mekanik20:00– 21.00

Friday, November 10, 2017

Registration, coffee and bread 8:15 – 9:00

Technical Session IV 9:00 – 10:35

Chair:

Ole Bjarlin Jensen, DTU Fotonik

Photodynamic diagnosis and diode laser treatment of non-invasive bladder tumours - an ongoing clinical RCT (Invited)

Marie Schmidt Erikson, Gentofte Hospital 9:00 – 9:25

High-sensitivity measurement of cardiac troponin I with UV LED excitation for point-of-care immunoassay

Olga Rodenko, DTU Fotonik/Radiometer Medical 9:25 – 9:40

All-fiber Gas-filled Hollow-Core Photonic Crystal Fibers for Gas sensing

Abubakar Isa Adamu, DTU Fotonik 9:40 – 9:55

Time resolved spectral characterization of mid-infrared supercontinuum pulses using electronically synchronized delay-tuned pulsed upconversion

Laurent Huot, DTU Fotonik/NKT Photonics 9:55 – 10:10

High-Capacity Transmission Using High-Density Multicore Fibers (Invited)

Toshio Morioka, DTU Fotonik 10:10 – 10:35

Break and exhibition 10:35 – 11:00

Technical Session V 11:00 – 12:05

Chair:

Kristian Lungaard Jensen, NKT Photonics

Laser satellite communication (Invited)

Henrik Ehlert, Space Inventor 11:00 – 11:25

Novel lasers and optical switches based on Fano resonances in photonics crystals (Invited)

Jesper Mørk, DTU Fotonik 11:25 – 11:50

Development of compact Terahertz emitter arrays (Invited)

Christian Buhl Sørensen, Aalborg University, Department of Physics and Nanotechnology 11:50 – 12:05

Lunch and exhibition 12:05 – 13:00

Technical Session VI 13:00 – 14:05

Chair:

Jakob Janting, DTU Fotonik

The European XFEL - the world's biggest X-ray laser, and what it can do (Invited)

Martin Meedom Nielsen, DTU Physics 13:00 – 13:30

Bend enhanced nonlinear fibers for high power supercontinuum sources

Arnhold Simonsen, DTU Fotonik 13:30 – 13:45

DOPS Prize, talk by the winner

Surprise 13:45 – 14:05

DOPS General Assembly 14:15 – 15:30

Dagsorden for DOPS generalforsamling 2017

1. Valg af dirigent.
2. Valg af referent.
3. Formandens beretning.
4. Valg
 - a. Valg af formand. Kristian Lundgaard Jensen afgår. Bestyrelsen foreslå Jakob Janting.
 - b. Valg af bestyrelsesmedlemmer.
På valg er: Kasper Paasch, Thomas Søndergaard og Anders Clausen. Alle modtager genvalg
Ikke på valg er: Ole Bjarlin Jensen og Martin Kristensen.
Bestyrelsen foreslå Anders Sig Olesen fra NKT som bestyrelsesmedlem
 - c. Valg af bestyrelsessuppleanter. Bestyrelsen foreslår genvalg af Finn Mengel.
 - d. Valg af revisorer. Hvis ingen melder sig, kan bestyrelsen se sig nødsaget til at købe ekstern revision.
5. Økonomi
 - a. Kassererens beretning.
 - b. Godkendelse af regnskab for 2016.
 - c. Forslag til at ændre regnskabsåret til perioden 1. oktober til 31. september
 - d. Godkendelse af budget for 2017.
 1. Herunder bestyrelsens forslag til afskaffelse af kontingent.
6. Indkomne forslag
7. Evaluering af årsmøde 2017 og fastlæggelse af dato for årsmøde i 2018.
8. Eventuelt.