



ECOC 2016 - Special Edition

Dear Readers,

Welcome to our newest edition of the PhoxTroT Newsletter! It is dedicated to this year's fair of ECOC (European Conference and Exhibition on Optical Communication). Since PhoxTroT is in its final year now, many successful events took place, such as the OFC (Optical Fiber Conference) in Anaheim, California, and our 2nd PhoxTroT Summer School in St. Andrews, Scotland. Now coming up, this year's ECOC will be held in Düsseldorf, Germany from the 18th – 22nd September 2016. Not only will we be having a booth on the exhibition days and we will present the 4th Optical Interconnect in Data Centers EU Symposium on Sunday the 18th. We look forward to meeting you there!

@EU Symposium - 4th Optical Interconnect in Data Centers

09.10 - Welcome

Tolga Tekin (PhoxTroT)

Session 1: The end-user perspective

09.30 - Advances in photonic interconnect for data centre subsystems - Richard Pitwon (Seagate)

09.50 - TBD - Katharine Schmidtke (Facebook)

10.10 - PIC Technologies for Intra- and Inter- Distributed DC and Cloud-Access Ultra-High Capacity Flex OTN - Elad Mentovich (Mellanox)

10.30 - System and Device-level Integration Trends of Optical Interconnects in Data Centres - Bert Offrein (IBM Research)

10.50 - Round table discussion

11.10 - Coffee Break

Session 2: Bringing technology to market I

11.30 - TBD - Marika Immonen (TTM Mail)

11.50 - ams and Silicon Photonics - From Research to Business - Joni Mellin (ams)

12.10 - Embracing diversity: hybrid integration for data center optics - Susannah Heck (Kaiam Corporation, USA)

12.30 - Silicon photonics transceivers for hyper-scale datacenters: Deployment and roadmap - Peter De Dobbelaere (Luxtera)

12.50 - TBD - Lê Nguyễn Bình (Huawei Technologies Ltd., GER)

13.10 - Round table discussion

13.30 - Lunch Break

Session 3: Bringing technology to market II

14.30 - TBD - Hideyuki Nasu (Furukawa)

14.50 - Addressing future trends in integrated silicon photonics - Charles Baudot (ST Micro)

15.10 - Bringing EOCB's to the market - what's missing? - Felix Betschon (Variooptics)

15.30 - Chip scale optical transceiver "optical I/O core" based on silicon photonics platform - Kazuhiko Kurata (PETRA)

15.50 - High bandwidth density 3-D optical wiring realized with the Mosquito method - Takaaki Ishigure (Keio University, JP)

16.10 - Round table discussion

16.30 - Coffee Break

Session 4: What comes next?

16.50 - Optical switching for scalable and programmable data center networks - Paraskevas Bakopoulos (National TU Athens, GR)

17.10 - TBD - Huiyun Liu (UCL, UK)

17.30 - LiFi: Making Fiber Wireless - Mohamed Sufyan Islim (University of Edinburgh, UK)

17.50 - Round table discussion **18.10 - END of symposium**

@Booth

The PhoxTroT team will be welcoming you at **Halle 3, Stand 350**

@Conference

Sunday, September 18th

WS 2: Exploring the real value of flexible optical networks, Room 17

13:30 Exploring the real value of flexible optical networks - Dimitrios Apostolopoulos (National Technical University of Athens & Institute of Communication and Computer Systems, Greece); et al.

Monday, September 19th

M 2.E: Transmitters I Room 110 **16.00** High-Speed Directly Modulated Heterogeneously Integrated InP/Si DFB Laser Laser – Geert Mothier (Ghent University, Belgium) et al.

Tuesday, September 20

Tu 3.A: Modulators Room 19+18

16.00 Multi-level Optical Signal Generation Using a Segmented-Electrode InP IQ-MZM with Integrated CMOS Binary Drivers – Michael Vanhoecke (Ghent University, Belgium) et al.

16:30 High-Speed Silicon-Organic Hybrid (SOH) Modulators - Stefan Wolf (Karlsruhe Institute of Technology (KIT), Germany); et al.

Tu 3.E: Nonlinear and Quantum Techniques Room 110

16.30 34.6 Tbit/s WDM Transmission Using Soliton Kerr Frequency Combs as Optical Source and Local Oscillator - Pablo Marin (Karlsruhe Institute of Technology (KIT), Germany); et al.

Tu 3.C: Multicarrier Modulation Room 16

16.45 56 Gb/s DMT Transmission with VCSELs in 1.5 μ m Wavelength Range over up to 12 km for DWDM Intra-Data Center Connects – Annika Dochhan (ADVA Optical Networking SE, Germany) et al.

Tu 3.F: Advanced Modulation for Access Room 112 **16.45** Demonstration of Upstream Flexible 2-/4-PAM Formats for Practical PON Deployments – Robbert van der Linden (Eindhoven University of Technology & Genexis BV, The Netherlands) et al.

Wednesday, September 21st

W 3.F: Silicon Photonics and Integration Room 112

14.45 Hybrid 2D/3D Photonic Integration for Non-Planar Circuit Topologies - Aleksandar Nestic, (Karlsruhe Institute of Technology (KIT), Germany); et al.

Thursday, September 22nd

Th 1.C: Pulse Amplitude Modulation II Room 16

09:00 Experimental Demonstration of 56 Gbit/s PAM-4 over 15 km and 84 Gbit/s PAM-4 over 1 km SSMF at 1525 nm using a 25G VCSEL – Nicklas Eiselt (Technical University of Denmark, Denmark) et al.

10:00 56 Gb/s PAM-4 Driver IC for Long-Wavelength VCSEL Transmitters - Wouter Soenen (Ghent University & iMinds-imec, Belgium) et al.

Th 2: P (2) Poster Session II Rooms: Raum 1, Room 19+18, Room 17, Room 16, Room 15, Room 110, Room 112, Room 14

-20 Gbit/s PAM-4 Signaling Using a Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulator - Heiner Zwickel (Karlsruhe Institute of Technology, Germany); et al.

Ultra-efficient interleaved depletion modulators by using advanced fabrication technology - Anna Lena Giesecke (AMO GmbH, Germany) et al.

End-to-end Optical 25Gb/s Link Demonstrator with Embedded Waveguides, 90° Out-of-Plane Connector and On-board Optical Transceivers - Marika Immonen (TTM Technologies, Finland); et al.

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PhoxTroT project [EU FP7]



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