



WORKSHOP on PolyPhotonics Berlin – A technology platform for highly functional optical components

The technology platform provides a toolbox of functional optical building blocks. Using novel waveguide materials, fabrication methods and assembling technologies, together with an innovative optical circuit design, these building blocks forming highly functional integrated circuits and modules for diverse fields of applications. To demonstrate the potential of the technology, multiplexer and 10G/100GE transceiver for telecom/datacom being developed as well as tunable lasers for analytics or terahertz generation and interrogator units for Fiber Bragg Grating (FBG) sensor system networks. The workshop held as part of the “Photonic Days Berlin Brandenburg”, presents actual results from the consortium and contributions from renowned international partners and experts covering the complete process chain from materials via simulation and fabrication to the final assembly and applications for communications and analytics.

18th October 2018

WISTA
Rudower Chaussee 17
12489 Berlin

Part of the Photonic Days Berlin Brandenburg
THE WORKSHOP WILL BE HELD IN ENGLISH

Program 18th October 2018

09:00 – 09:30	Registration // exhibition// coffee
	Welcome and introduction
09:30 – 09:40	Welcome Frank Lerch, Cluster Optic / OpTecBB
09:40 – 10:00	<u>PolyPhotonics Berlin</u> : Introduction and Overview Christian Kutza, FOC GmbH
10:00 – 10:15	Cluster Optic/Photonic in Berlin Brandenburg Gerrit Rössler, Berlin Partner für Wirtschaft und Technologie GmbH, Germany
10:15 – 10:45	Photonic Integration for Sensing and Data transmission Martin Schell, Fraunhofer Heinrich Hertz Institute, Germany
10:45 – 11:15	Coffee break and exhibition
	Session: Materials
11:15 – 11:30	<u>PolyPhotonics Berlin</u> : Material Development for next generation optical polymers Jan Jasper Klein, micro resist technology GmbH, Germany
11:30 – 11:45	<u>PolyPhotonics Berlin</u> : Material Development for optical devices and nanostructures Christian Kaiser, ALLRESIST GmbH, Germany
11:45 – 12:15	2D/3D optical wiring with polymer optical waveguide enabled by the Mosquito method Takaaki Ishigure, Keio University, Japan
12:15 – 13:15	Lunch and exhibition
	Session: Platform
13:15 – 13:40	PolyBoard in high-end hybrid integration platforms for communication and sensing applications Christos Kouloumentas, ICCS/NTUA, Athens, Greece
13:40 – 13:55	<u>PolyPhotonics Berlin</u> : Design of Opto-electronic Circuits André Richter, VPIphotonics, Germany
13:55 – 14:10	<u>PolyPhotonics Berlin</u> : Automated assembly technologies Roman Schmidt, First Sensor AG, Germany
14:10 – 14:30	Recent advances and innovations in automated manufacturing equipment for photonics applications Ignazio Piacentini, ficonTEC GmbH, Germany
14:30 – 15:00	Coffee break and exhibition
	Session: Applications 1
15:00 – 15:20	<u>PolyPhotonics Berlin</u> : Tunable 10G Transceivers for 5G Fronthaul Jim Zou, ADVA Optical Networking SE, Germany
15:20 – 15:40	<u>PolyPhotonics Berlin</u> : Monitoring of fibre optic inventory infrastructures Martina Vitt, FOC GmbH
15:40 – 16:00	<u>PolyPhotonics Berlin</u> : Polymer Optical FlexLines Günter Unterbörsch, FINISAR Germany, Germany
16:00 – 16:30	Coffee break and exhibition
	Session: Applications 2
16:30 – 16:50	Photonic Integrated Circuits for Quantum Optic, LifeScience, and THz Applications, Patrick Leisching, TOPTICA Photonics AG, Germany
16:50 – 17:10	<u>PolyPhotonics Berlin</u> : “Polymer meets Semiconductor – Waveguided Photonic Components for Single Frequency Generation and Application”; Dr. Thomas Laurent, eagleyard, Germany
17:10 – 17:30	Hybrid InP/Polymer unique advantages in Terahertz Spectroscopic sensing and fiber sensing Guillermo Carpintero, UC3M, Madrid, Spain
17:30 – 17:50	<u>PolyPhotonics Berlin</u> : Interrogator Chips for FBG Sensor Systems Roman Flehr, Loptek GmbH & Co. KG, Germany
17:50	End of Workshop

Workshop Registration

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Thursday, 18th October 2018

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Please reply before October 12th 2018 to OpTecBB

Online registration: http://optecbb.de/lang/de/anmeldung_20181018_poly_photonics.php

Or mail to OpTecBB e.V., Hr. Reschke: optecbb@optecbb.de, Fax: +49-30-6392-1729

Name, first name:

Title:

Institution/company:

Address:

Tel./fax:

E-mail:

By registering you consent to the following:

- all personal data collected via this registration form will, in accordance with the current rules concerning the protection of personal data, be saved, processed and used for the sole purpose of organising the event and for legitimate business interests with regard to providing advice and support.
- during the event, visual images of you may be taken, processed and used in the context of public relations work (print and online media) and for documentation purposes.
- The transmitted data concerning title, first name, surname and company/institution may be made available to all event participants in the form of a printed list of participants.