

WEDNESDAY, 18.05.2016

08.00–08.30	Welcome coffee & Registration	
08.30–09.00	Opening ceremony 1.01 + 2.01	
09.00–10.30	PLENARY SESSION #1 1.01 + 2.01	
09.00–09.30	ECIO I-01 INVITED TALK Meint Smit: Prospects for InP-based integrated photonics	
09.30–10.00	ECIO I-02 INVITED TALK Juerg Leuthold: Plasmonics – a technology for microscale high-speed integrated optics	
10.00–10.30	ECIO I-03 INVITED TALK Maciej Bugajski: Monolithically integrated coupled-cavity quantum cascade lasers	
10.30–11.00	Coffee break	
	SESSION #1 LASER & LIGHT SOURCES 11.00–13.00 1.01 + 2.01	SESSION #2 PASSIVE COMPONENTS/DEVICES 11.00–13.00 4.04 + 4.05
11.00–11.30	ECIO I-04 INVITED TALK Alwyn Seeds, Direct integration of quantum dot lasers on silicon	11.00–11.30 ECIO I-06 INVITED TALK Martijn Heck, Optical isolators for photonic integrated circuits
11.30–12.00	ECIO I-05 INVITED TALK Erwin Bente, Mode locked laser systems on InP integration technology platforms	11.30–12.00 ECIO I-07 INVITED TALK Hon Ki Tsang, Engineering the optical characteristics of waveguide grating couplers
12.00–12.15	ECIO O-01 Maria Deseada Gutierrez, Monolithically Integrated Lasers for Comb Generation in Bandwidth Variable Transponders	12.00–12.15 ECIO O-05 De-Long Zhang, Electro-optic Long Period Ti:LiNbO₃ Waveguide Gratings in Parallel for Broadband Filtering
12.15–12.30	ECIO O-02 Vinicio Corral, Integrated Long Cavity Mode Locked Ring Laser	12.15–12.30 ECIO O-06 Weiwei Zhang, Critical coupling enhanced refractive index sensing in SOI slot microring resonators
12.30–12.45	ECIO O-03 Bruno Romeira, High-Speed Direct Modulation of Waveguide-Coupled Metal-Cavity Nano-Light-Emitting Diodes	12.30–12.45 ECIO O-07 Carlos Alonso-Ramos, Integrated polarization controller with 40 dB polarization extinction ratio range in the C-Band
12.45–13.00	ECIO O-04 Mao Okada, Multi-Wavelength Lasing with SOA and AWG for Linear-Cavity Fiber Sensor	12.45–13.00 ECIO O-08 Daniel Pastor, Optical Frequency Domain Reflectometry applied to Photonic Integrated Circuits
13.00–14.30	Lunch TENT	
	SESSION #3 LASER & LIGHT SOURCES 14.30–16.00 1.01 + 2.01	SESSION #4 PASSIVE COMPONENTS/DEVICES 14.30–16.00 4.04 + 4.05
14.30–15.00	ECIO I-08 INVITED TALK Zhenguo Lu, Coherence Comb Laser Sources: Quantum Dots, Packaging and Active Control	14.30–15.00 ECIO I-09 INVITED TALK Gualtiero Nunzi Conti, Waveguide coupled high-Q micro-optical resonators
15.00–15.15	ECIO O-09 Sylwester Latkowski, Indium phosphide monolithic photonic integrated circuits for gas sensing applications	15.00–15.15 ECIO O-13 Daniel Benedikovic, Highly efficient subwavelength engineered grating couplers for silicon-on-insulator waveguides
15.15–15.30	ECIO O-10 Vadim Pogoretskiy, Development of active-passive regrowth for butt-coupled lasers in membrane photonic integrated circuits	15.15–15.30 ECIO O-14 Dan Zhao Optical frequency domain reflectometry for characterization of waveguide crossings

15.30–15.45	ECIO O-11 Carlos Gordon, On-Chip Multiple Colliding Pulse Mode-Locked Laser for Millimeter and Terahertz Wave Generation	15.30–15.45	ECIO O-15 Maxim Neradovskiy, Highly efficient nonlinear waveguides in LiNbO₃ fabricated by a combination of Soft Proton Exchange (SPE) and E-beam writing
15.45–16.00	ECIO O-12 Sarah Uvin, Narrow Line Width Injection-locked III-V-on-silicon Mode-locked Laser	15.45–16.00	ECIO O-16 Tadashi Kondo, Proposal of Optical Thresholder Consisting of Two MZIs with Nonlinear Micro-Ring Resonator
16.00–16.30	Coffee break		
16.30–17.45	PLENARY SESSION #2 1.01 + 2.01		
16.30–17.00	ECIO I-10 INVITED TALK Tomasz R. Woliński, Nanoparticles-based liquid crystals integrated with photonic crystal fibers		
17.00–17.30	ECIO I-11 INVITED TALK Thomas Krauss, Multimodal photonic crystal biosensors		
17.30–17.45	ECIO O-17 Laurent Vivien, GVD control of low loss slot photonic crystal waveguides for hybrid silicon photonics		
17.45–19.15	POSTER SESSION 4.01 + 4.02		
	ECIO p-01 Cuma Tyszkiewicz, Sol-gel derived rib waveguides for evanescent wave spectroscopy		
	ECIO p-02 Daniel Pérez, Switching and cross-talk characteristics of compact thermal tuners on a Silicon Nitride platform		
	ECIO p-03 Rodica Morescu, Nanoimprint Fabrication of Hybrid Polymer Microring Resonators Operating at Very Near Infrared Wavelengths		
	ECIO p-04 Marcin Lelit, Integrated optical time division reflectometer		
	ECIO p-05 Sara Núñez-Sánchez, Lossy Metallic Micro/Nano-Structures for Solar Thermal Applications		
	ECIO p-06 Aldo Gutierrez-Arroyo, Study of optical ridge waveguide based on porous silicon layers at 7.8 μm		
	ECIO p-07 Cuma Tyszkiewicz, Modelling of intensity planar waveguide transducers supporting surface plasmon polaritons		
	ECIO p-08 De-Long Zhang, Near-stoichiometric Ti:D:LiNbO₃ (D = Mg²⁺, Sc³⁺, Ga³⁺, Zr⁴⁺) Optical Waveguides for Integrated Optics		
	ECIO p-09 Dmitry Pustakhod, Dual-input scheme for high resolution integrated AWG-based fiber Bragg grating interrogator		
	ECIO p-10 Marcin Koba, Threshold Analysis of 2-D Gain and Index Coupled Photonic Crystal Lasers		
	ECIO p-11 Hongsik Jung, Integrated Photonic Lithium-Niobate Electric-Field Sensor utilizing a Y-fed Balanced-Bridge(YBB) Mach-Zehnder Interferometric Modulator		
	ECIO p-12 Konrad Markowski, Pareto optimization of group delay response of apodized tapered fibre gratings		
	ECIO p-13 Magdalena Ekwńska, A novel approach for comb-drive driving systems used in MOEMS		
	ECIO p-14 Marta Soltys, White luminescence in borate and phosphate glasses containing lead		
	ECIO p-15 Niall P. Kelly, Monolithic Integration of Facetless Slotted Fabry-Perot Lasers and Star Coupler		
	ECIO p-16 Robert Mroczyski, Technology of infrared photodectors based on graphene layers		
	ECIO p-17 Piotr Garbat, Liquid crystal materials with high birefringence and low-loss for THz applications		
	ECIO p-18 Victor Dolores Calzadilla, Polarization Rotator with High Performance for Integrated Photonic Membranes		
	ECIO p-19 Weiming Yao, Equivalent Circuit Modelling of Integrated Traveling-Wave Optical Modulator in InP Foundry Platform		
	ECIO p-20 Alonso Jesus Millan-Mejia, Fabrication technology of a slot waveguide modulator in InP Membranes on Silicon (IMOS)		
	ECIO p-21 André Richter, Layout-Aware Schematic-Driven Design Methodology for Photonic Integrated Circuits		
	ECIO p-22 Andrea Melloni, Wavelength locking platform for 4 × 10 Gbit/s L-band Si-photonics multiplexer and carver		
	ECIO p-23 Andrea Zanzi, Design of a High Speed Silicon Modulator Based on a Vertical pn Junction at 1.31 μm Wavelength		
	ECIO p-24 Anton Vasiliev, 3.8 μm Heterogeneously Integrated III-V on Silicon Micro-Spectrometer		
	ECIO p-25 Michał Kwaśny, Integrated electro-optical and all-optical waveguide devices with nematic liquid crystals		

ECIO p-26 Krishna Thyagarajan, Generation of Path- Entangled Photon Pairs in a Periodically Poled Planar Waveguide
ECIO p-27 Dominik Dorosz, Antimony-gemanate active glass-ceramic optical fiber
ECIO p-28 Fabien Dubois, Mutually Coupled Semiconductor Lasers in Photonic Integrated Circuits
ECIO p-29 Francesco Ivaldi, Novel MOEMS read-out system for multi-cantilever sensor arrays
ECIO p-30 Hakimeh Mohammadhosseini, Silicon Photonics for millimeter-Wave Generation: an Energy-Efficiency Analysis
ECIO p-31 Hendrik Block, Fabrication of a tunable thin-film-based optical array by structuring an elastomer layer
ECIO p-32 Jorn van Engelen, A Novel Optically Wide-Band Electro-Absorption Modulator based on Bandfilling in n-InGaAs
ECIO p-33 Jozef Chovan, Characterization of Integrated Photonics Sensors Interrogator
ECIO p-34 Justin Alexander, Resonance Enhancement of a Monolithically Integrated Common Cavity Device
ECIO p-35 Kazimierz Gut, Broad-Band Difference Interferometer
ECIO p-36 Marco Passoni, Simultaneous optimization of coupling efficiency and bandwidth of waveguide grating couplers
ECIO p-37 Maria Deseada Gutierrez, Monolithically Integrated 1 × 4 Comb De-multiplexer Based on Injection Locking
ECIO p-38 Aleksandra Golba, Development of a WDM-PON system based on photonic integrated circuits
ECIO p-39 Marija Trajkovic, 20 Gbps operation of the electro-absorption modulator in the COBRA generic integration platform
ECIO p-40 Michael Haverdings, Extreme Fibre Optic Sensing by Utilizing Photonic Integrated Circuits in Dedicated Packages
ECIO p-41 Michal Karpinski, Generation and Manipulation of Spatially Entangled Photon Pairs in Nonlinear Waveguides
ECIO p-42 Shane Duggan, Taper Design for Vertical Coupling between Isolated Active and Passive Waveguides
ECIO p-43 Pau Castera, Optimization of a BaTiO₃ on Silicon Waveguide Structure for Electro-Optic Modulation
ECIO p-44 Katrin Rylander, Design of integrated, tuneable filters for telecom application
ECIO p-45 Yuqing Jiao, Reflection-based 90° sharp turn for InP membrane waveguide circuits
ECIO p-46 Andrzej Kazmierczak, Development of photonic sensing system for patient condition monitoring during MRI diagnostics

19.30–24.00 Welcome reception **TENT**

THURSDAY, 19.05.2016

08.00–09.00 Coffee

09.00–10.30 **PLENARY SESSION #3 1.01 + 2.01**

09.00–09.30 **ECIO | I-12** | INVITED TALK | Michael Wale, **InP-based photonic integration: achievements and opportunities**

09.30–10.00 **ECIO | I-13** | INVITED TALK | Maurizio Ferrari, **Glass and glass-ceramic photonic systems**

10.00–10.30 **ECIO | I-14** | INVITED TALK | Tetsuya Mizumoto, **Optical Isolators and Circulators for Silicon Photonics**

10.30–11.00 Coffee break

SESSION #5 | TECHNOLOGY/PLATFORMS
11.00–13.00 **1.01 + 2.01**

SESSION #6 | ACTIVE DEVICES
11.00–13.00 **4.04 + 4.05**

11.00–11.30 **ECIO | I-15** | INVITED TALK | Peter Smith, **A new hybrid fibre / planar platform for optics, offering ultralow loss and robust integration**

11.00–11.30 **ECIO | I-17** | INVITED TALK | Lukas Chrostowski, **Electronic Control and Stabilization of Silicon Photonic Microring Resonator Circuits**

11.30–12.00 **ECIO | I-16** | INVITED TALK | Sylvie Menezo, **Matching the best of Silicon and InP for Integrated and compact E/O Transceivers**

11.30–11.45 **ECIO | O-22** | Jochem Verbist, **A 40 GBaud Integrated Silicon Coherent Receiver**

12.00–12.15 **ECIO | O-18** | Anne Talneau, **High-Optical-Quality Oxide-Free InP-on-Si Hybrid Interface**

11.45–12.00 **ECIO | O-23** | Tobias Beckerwerth, **Waveguide Integrated Avalanche Photodiodes for InP PICs for Data-Center Applications**

12.15–12.30	ECIO O-19 Paul Muellner, CMOS-compatible low-loss silicon nitride waveguide integration platform for interferometric sensing	12.00–12.15	ECIO O-24 Andrea Annoni, 4-Channel All-Optical Mode Demultiplexing on a Silicon Photonic Chip
12.30–12.45	ECIO O-20 Timo Aalto, Euler bends and TIR mirrors for ultra-dense PIC integration on SOI	12.15–12.30	ECIO O-25 Antonio Ribeiro, A Thermally Tunable but Athermal Silicon MZI Filter
12.45–13.00	ECIO O-21 Valeria Rustichelli, Buried heterostructures for deep UV lithography	12.30–12.45	ECIO O-26 Robert Sheehan, InGaAsN-GaAsN Electro-Absorption Modulator: Material and Process Development
		12.45–13.00	ECIO O-27 Georgios Sinatkas, Transparent Conducting Oxide Electro-Optic Modulators: a Comprehensive Study based on the Drift-Diffusion Semiconductor Model
		13.00–13.15	ECIO O-28 Pawel Knapkiewicz, MEMS atomic standards

13.00–14.30 Lunch **TENT**

SESSION #7 TECHNOLOGY/PLATFORMS 14.30–16.30 1.01 + 2.01		SESSION #8 ACTIVE DEVICES 14.30–16.30 4.04 + 4.05	
14.30–15.00	ECIO I-18 INVITED TALK Laurent Vivien, Recent advances in strained silicon photonics	14.30–15.00	ECIO I-20 INVITED TALK Chigo Okonkwo, Hardware Integration options for Space Division Multiplexing
15.00–15.30	ECIO I-19 INVITED TALK Martin Schell, Optical Integration: Technological and Economical Aspects	15.00–15.30	ECIO I-21 INVITED TALK Lech Wosinski, Silicon- and plasmonics-based nanophotonics for computer interconnects and sensing
15.30–15.45	ECIO O-29 Aldo Gutierrez-Arroyo, Integrated Platform in Chalcogenide Glasses for Optical Sensing in the Mid-InfraRed	15.30–15.45	ECIO O-33 Dawid Piątkowski, Optical properties of plasmonic networks
15.45–16.00	ECIO O-30 Maksym Gromovyi, Nonlinear interactions in extremely low loss GaN planar waveguides	15.45–16.00	ECIO O-34 James Titchener, Quantum State Tomography in Static Optical Circuits
16.00–16.15	ECIO O-31 Longfei Shen, Double-sided processing for membrane-based photonic integration	16.00–16.15	ECIO O-35 Ripalta Stabile, Fast and Energy Efficient Micro-Ring-Resonator-Based 4 × 4 InP Switch Matrix
16.15–16.30	ECIO O-32 Aura Higuera Rodriguez, Fabrication technology of photonic crystal nanobeams on III-V membranes	16.15–16.30	ECIO O-36 Simone Cardarelli, Beam Steering Device with Sub Micrometre Precision

16.30–17.00 Coffee break

17.00–18.30 PLENARY SESSION #4 1.01 + 2.01	
17.00–17.30	ECIO I-22 INVITED TALK Roberto Morandotti, Quantum state generation via integrated frequency combs
17.30–18.00	ECIO I-23 INVITED TALK Mark Thompson, Silicon Quantum Photonics
18.00–18.30	ECIO I-24 INVITED TALK Małgorzata Kujawińska, Microoptics based, integrated, full-field measurement systems

20.00–24.00 ECIO gala dinner **AleGloria RESTAURANT plac Trzech Krzyży 3**

FRIDAY, 20.05.2016

08.00–09.00	Coffee
09.00–10.30	ECIO + OWTNM PLENARY JOINT SESSION 1.01 + 2.01
09.00–09.30	ECIO I-25 INVITED TALK Andrea Melloni, Tunable integrated photonics toolbox: from realistic models to control algorithms
09.30–10.00	ECIO I-26 INVITED TALK Philippe Lalanne, Light interaction with resonance
10.00–10.30	OWTNM I-01 INVITED TALK Wim Bogaerts, Challenges for Designing Large-scale Integrated Photonics
10.30–11.00	Coffee break

SESSION #9 PARADIGM SESSION 11.00–13.00 1.01 + 2.01		ECIO+OWTNM SESSION SIMULATIONS/MODELLING 11.00–13.00 4.04 + 4.05	
11.00–11.30	ECIO I-27 INVITED TALK Xaveer Leijtens, Generic photonic integration on InP	11.00–11.15	ECIO O-43 Mariangela Gioannini, Analysis of Quantum Dot Single Section FP Lasers for Comb spectra generation
11.30–11.45	ECIO O-37 Moritz Baier, A New Approach to Designing Polarization Rotating Waveguides	11.15–11.30	ECIO O-44 Daan Lenstra, Rate-Equation Analysis for an Integrated Coupled-Cavity Laser with MMI Anti-Phase Coupler
11.45–12.00	ECIO O-38 Sylwester Latkowski, COBRA long wavelength active-passive monolithic photonic integration technology platform	11.30–11.45	ECIO O-45 Giannis Pouloupoulos, Angled 3D Glass-to-SiPh adiabatic coupler
12.00–12.15	ECIO O-39 Minsheng Ding, Low-Energy, Dilated 4 × 4 Hybrid MZI-SOA Cross-point Optical Switch	11.45–12.00	ECIO O-46 Wim Bogaerts, Optimization of Silicon Photonic Components using Multi-Fidelity Simulations and Co-Kriging
12.15–12.30	ECIO O-40 Dominic Gallagher, Design environment for active photonic integrated circuits improves the DML	12.00–12.15	ECIO O-47 Perry van Schaijk, Feedback-Insensitive Integrated Laser
12.30–12.45	ECIO O-41 Victor Dolores Calzadilla, InP-based photonic integrated platform: status and prospects	12.15–12.30	OWTNM O-01 Alonso Millan Mejia, Design of an Optical Nanoantenna with Focusing Sub-wavelength Grating Couplers and Metallic Reflector
12.45–13.00	ECIO O-42 Shuxuan Zhu, Unidirectional Operation of a Monolithically Integrated Mode locked Semiconductor Ring Laser	12.30–12.45	OWTNM O-02 Vipul Rastogi, Effect of Dielectric Nanoparticles on Efficiency of Organic Solar Cell
		12.45–13.00	OWTNM O-03 Gregory V. Morozov, Band Structure Analysis of a 1D Photonic Crystal with a Sawtooth Refractive Index
13.00–14.30	Lunch TENT		
14.30–16.15	SESSION #10 COMPANY SESSION 1.01 + 2.01		
14.30–14.45	ECIO O-48 Moritz Seyfried, FICONTEC, Laser soldering for highest-accuracy passive bonding applications		
14.45–15.00	ECIO O-49 Maciej Fimiarz, VIGO SYSTEM, Integrated IR detection modules		
15.00–15.15	ECIO O-50 Martin Kirchner, RAITH GmbH Dortmund, High Fidelity Electron Beam Lithography for Photonic Devices		
15.15–15.30	ECIO O-51 Dominic Gallagher, PHOTON DESIGN, Design of Active Photonic Circuits		
15.30–15.45	ECIO O-52 André Richter, VPI PHOTONICS, Simulation Software & Services for Photonic Design & Analysis		
15.45–16.00	ECIO O-53 Romuald B. Beck, CEZAMAT, CEZAMAT – unique high-tech institution in R&D landscape in Poland		
16.00–16.15	ECIO O-54 Marcin Tomkiewicz, FCA, PICs in Terabit Networks		
16.15–16.45	ECIO closing remarks 1.01 + 2.01		