THURSDAY, 19.05.2016

19.00–22.00	Welcome reception

FRIDAY, 20.05.2016

08.00–09.00	Coffee	
09.00–10.30	**ECIO+OWTNM PLENARY JOINT SESSION 1.01+2.01** **CHAIR: Trevor M. BENSON,** University of Nottingham, UK	
	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	
11.00–13.00	**ECIO+OWTNM SESSION | SIMULATIONS/MODELLING 4.04 + 4.05** **CHAIR: Andrea MELLONI,** Politecnico di Milano, Italy	
11.00–11.15	**ECIO|O-43** | Mariangela Gioannini, **Analysis of Quantum Dot Single Section FP Lasers for Comb spectra generation**	
11.15–11.30	**ECIO|O-44** | Daan Lenstra, **Rate-Equation Analysis for an Integrated Coupled- Cavity Laser with MMI Anti-Phase Coupler**	
11.30–11.45	**ECIO|O-45** | Giannis Poulopoulos, **Angled 3D Glass-to-SiPh adiabatic coupler**	
11.45–12.00	**ECIO|O-46** | Wim Bogaerts, **Optimization of Silicon Photonic Components using Multi-Fidelity Simulations and Co-Kriging**	
12.00–12.15	**ECIO|O-47** | Perry van Schaijk, **Feedback-Insensitive Integrated Laser**	
12.15–12.30	**OWTNM|O-01** | Alonso Millan Mejia, **Design of an Optical Nanoantenna with Focusing Sub-wavelength Grating Couplers and Metallic Reflector**	
12.30–12.45	**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	
14.30–16.00	**OWTNM SESSION #1 | OPTICAL ARRAYS, GRATINGS AND VIAS 4.04 + 4.05** **CHAIR: Gregory MOROZOV,** University of the West of Scotland, UK	
14.30–15.00	**OWTNM|I-02** | INVITED TALK | Anatole Lupu, **Local Parity-Time-symmetry Grating Devices for Integrated Optics**	
15.00–15.15	**OWTNM|O-04** | Trevor M. Benson, **Time-Modulated Gain and Loss Parity-Time Symmetric Resonators**	
15.15–15.30	**OWTNM|O-05** | Ya Yan Lu, **Plane Wave Diffraction by Periodic Arrays of Nonlinear Cylinders**	
15.30–15.45	**OWTNM|O-06** | Nadège Rassem, **On the Thin Spectral Width of Cavity-resonator-integrated grating filters**	
15.45–16.00	**OWTNM|O-07** | Ripalta Stabile, **Design of an Optical Via for Large Scale Monolithic Multilayer PICs**	

16.00–16.45	**POSTER SESSION 4th floor, hall**
	OWTNM|p-01| Anna Piotrowska, **Strain Detection in Two- and Three-Dimensional Periodic Structures with the Low Index Contrast by Monitoring their Optical Response**
	OWTNM|p-02| Anne-Laure Fehrembach, **Electromagnetic modelling of large subwavelength-patterned highly resonant structures**
	OWTNM|p-03| Jan Fiala, **On the Origin of the Wood's anomalies in the Extraordinary Transmission through One-dimensional Sub-wavelength Periodic Arrays**
	OWTNM|p-04| Olga Kuryzheva, **Resonances Excited by an Airy Pulse in a Dielectric Laye**
	OWTNM|p-05| Nadiia Stognii, **Transient Plasmons Dynamics in Metallic Structures**
	OWTNM|p-06| Tomek Kaczmarek, **Dispersion and loss managed soliton communication system with use of new type of step-index optical fiber**
	OWTNM|p-07| Beata Derkowska-Zielińska, **Third Order Nonlinear Optical Properties of DCM**
	OWTNM|p-08| Hanna Stawska, **The Numerical Prediction of the Characteristics of Directional Multimodal Couplers for Two-Photon Endoscopy**
	OWTNM|p-09| Lukasz Pajewski, **Ray Tracing Methods in Numerical Analysis of Double-clad Microstructured Optical Fibre Coupler**
	OWTNM|p-10| Eliza Miśkiewicz, **Analysis of the Absorption and Refraction Spectra of Photorefractive GaAs – AlGaAs Heterostructures for Dynamic Diffractive Elements**
	OWTNM|p-11| Vladimir Burdin, **Model for a Few-Mode Nonlinear Propagation of Optical Pulse in Multimode Optical Fiber**
16.45–18.15	**OWTNM SESSION #2 | PLASMONICS 4.04 + 4.05** **CHAIR: Manfred HAMMER,** University of Paderborn, Germany
16.45–17.00	**OWTNM|O-08|** Pavel Kwiecien, **Simulations of sensing capabilities of propagating modes supported by a sparse array of metal nanoparticles**
17.00–17.15	**OWTNM|O-09|** Gilles Rosolen, **Doping and connecting graphene dimers for a tunable absorption spectrum**
17.15–17.30	**OWTNM|O-10|** Thomas Christopoulos, **Optical Bistability and Self-Pulsation with Long-Range Hybrid Plasmonic Disk Resonators**
17.30–17.45	**OWTNM|O-11|** Gilles Renversez, **Improved nonlinear plasmonic waveguides: modal spatial transitions and loss reduction**
17.45–18.00	**OWTNM|O-12|** Hung-chun Chang, **Leaky and Bound Modes on Stripe Plasmonic Waveguide Related Structures**
18.00–18.15	**OWTNM|O-13|** T. V. Raziman, **Detecting weak modes in plasmonic systems using complex polarisation charge**
19.30–24.00	Grill dinner **LOLEK PUB (Pole Mokotowskie), ul. Rokitnicka 20**

SATURDAY, 21.05.2016

08.00–09.00	Coffee
09.00–10.30	**SESSION #3 | WAVEGUIDE BASED DESIGN 4.04 + 4.05** **CHAIR: Anne-Laure FEHREMBACH,** Aix-Marseille Université, CNRS, France
09.00–09.15	**OWTNM|O-14|** Manfred Hammer, **Hybrid Coupled Mode Modelling**
09.15–09.30	**OWTNM|O-15|** Hannes Lüder, **Coupled-Mode Theory for Complex-Index, Corrugated Multilayer Stacks**
09.30–09.45	**OWTNM|O-16|** Igor Lyubchanskii, **Optical Properties of a Four-Layer Waveguiding Nanocomposite Structure in the Near-IR Regime**
09.45–10.00	**OWTNM|O-17|** Christoph Wächter, **Low Loss Estimation in Thin Film Configurations by Means of Leaky Wave Resonances**
10.00–10.15	**OWTNM|O-18|** Yufei Xing, **Backscatter Model for Nanoscale Silicon Waveguides**
10.15–10.30	**OWTNM|O-19|** Jon Ø. Kjellman, **Design of Dual Layer, Dual Width Waveguides for Giant Group Velocity Dispersion**

10.30–11.00	Coffee break
11.00–13.00	**SESSION #4 | PHOTONIC DESIGN 4.04 + 4.05** **CHAIR: Christoph WÄCHTER,** Fraunhofer Institute for Applied Optics and Precision Engineering, Jena, Germany
11.00–11.15	**OWTNM|O-20** | Lukasz Sójka, **Numerical Investigation of Mid-infrared Laser Action in Pr^{3+} Doped Chalcogenide Fibre Laser**
11.15–11.30	**OWTNM|O-21** | L. Scholtz, **Numerical Investigation of All-Optical Switching in Nonlinear Chalcogenide Fibre Bragg Gratings due to Cross-Phase and Self-Phase Modulation**
11.30–11.45	**OWTNM|O-22** | Marian Marciniak, **Analysis of Single-Frequency Radiation from Fiber Laser with Bragg Reflectors: Numerical Simulation by the Method of Single Expression**
11.45–12.00	**OWTNM|O-23** | Anton Bourdine, **Design of Silica Few-Mode Optical Fibers with Enlarged Core Diameter**
12.00–12.15	**OWTNM|O-24** | Vipul Rastogi, **Six-mode-group Fiber Amplifier for SDM System**
12.15–12.30	**OWTNM|O-25** | Libor Ladányi, **Numerical Simulation of the Dispersion-Managed Soliton Pulse Propagation**
12.30–12.45	**OWTNM|O-26** | Siergei Mingaleev, **VPImodeDesigner: An Integrated Framework for Modeling Optical Waveguides and Fibers**
12.45–13.00	**OWTNM|O-27** | Alberto Parini, **Design Space Exploration of Functional Blocks for On-chip Mode Division Multiplexing**
13.00–14.00	Lunch **gound floor, hall**
14.00–15.30	**SESSION #5 | ANALYSIS, THEORY AND MODELLING 4.04 + 4.05** **CHAIR: Marian MARCINIAK,** National Institute of Telecommunications, Poland
14.00–14.30	**OWTNM|I-03** | INVITED TALK | Daryl Beggs, **Polarisation singularities in disordered photonic crystal waveguides for on-chip spin-photon entanglement**
14.30–14.45	**OWTNM|O-28** | Alberto Parini, **Two-mode Waveguide with Nonlinear Ring Resonator**
14.45–15.00	**OWTNM|O-29** | Martina Gerken, **Simulation Methods for Multiperiodic and Aperiodic Nanostructured Dielectric Waveguides**
15.00–15.15	**OWTNM|O-30** | Eugene Sokolov, **High-Order Split-Step Time-Domain Modelling of Optoelectronic Devices with Distributed Feedback**
15.15–15.30	**OWTNM|O-31** | Hendrik Kleene, **An Assessment of Polynomial Approximations for the Time-Domain Beam Propagator**
15.30–16.00	**Closing remarks 4.04 + 4.05**