

Sunday, June 28

SESSION Su.A (15:30 – 18:00)

Room: North Auditorium (A2)

EURO-FOS Workshop on Photonic Systems

- Su.A.1** Organizers introduction
15:30 *I. Tomkos, E. Kehayas*
- Su.A.2** EURO-FOS: Pan-European photonics task force: Integrating Europe's expertise on photonic subsystems
15:40 *E. Kehayas*
- Su.A.3** Non-linear processes enabling optical signal processing
16:00 *R. Manning*
- Su.A.4** Approaching terabit/second switching
16:30 *H.C. Hansen Mulvad*
- Su.A.5** Progress of photonic switching systems for enabling advanced routing functionalities: From bulk UNIs to fully integrated photonic routers
17:00 *L. Stampoulidis*
- Su.A.6** Scalable photonic packet routers
17:30 *H. Dorren*

16:00 – 18:30 Early registration and collection of proceedings and offers

18:30 – 20:00 Wine and Cheese Cocktail (Local: Ponta Delgada University) *Cultural program: University TUNA*

Monday, June 29

8:00 Registration

Opening Ceremony (9:15 – 9:30)

Room: Main Auditorium (A1)

SESSION Mo.A (9:30 – 11:00)

Room: Main Auditorium (A1)

Plenary Session Chair: Hans-Georg Unger

- Mo.A.1** Fiber-optic sensors – An overview (*Invited*)
9:30 *O. Strobel, D. Seibl, J. Lubkoll, R. Rejeb*
- Mo.A.2** Optical flow switching: A new “green” transport mechanism for fiber networks (*Invited*)
10:00 *V.W.S. Chan*
- Mo.A.3** Soft glass microstructured optical fibers: Recent progress in fabrication and opportunities for novel optical devices (*Invited*)
10:30 *H. Ebendorff-Heidepriem, T.M. Monro*

11:00 - 11:30 *Coffee-break* 11:00 - 11:30 *Coffee-break* 11:00 - 11:30 *Coffee-break* 11:00 - 11:30 *Coffee-break*

SESSION Mo.B1 (11:30 – 13:10) Room: Main Auditorium (A1)	SESSION Mo.B2 (11:30 – 13:10) Room: North Auditorium (A2)	SESSION Mo.B3 (11:30 – 13:10) Room: South Auditorium (A3)	SESSION Mo.B4 (11:30 – 13:10) Room: Small Auditorium (A6)	SESSION Mo.B5 (11:30 – 13:15) Room: 12 (A4)
SWG WG3 I Supercontinuum generation Chair: Krassimir Panajotov	ICTON I Systems I Chair: Armin Ehrhardt	WAOR I Chair: Josep Solé-Pareta	MARS I Chair: Giorgio M. Tosi Beleffi	FSO Chair: Craig Michie
Mo.B1.1 Enhanced supercontinuum generation in the nanosecond pump regime using specialty microstructured fibers (<i>Invited</i>) 11:30 <i>J. Cascante-Vindas, A. Díez, S. Torres-Peiró, J.L. Cruz, M.V. Andrés</i>	Mo.B2.1 An optically powered fibre network for heterogeneous subscribers (<i>Invited</i>) 11:30 <i>W. Freude, M. Röger, M. Dreschmann, M. Huebner, A.W. Bett, J. Becker, J. Leuthold</i>	Mo.B3.1 Power reduction techniques in multilayer traffic engineering (<i>Invited</i>) 11:30 <i>B. Puype, W. Vereecken, D. Colle, M. Pickavet, P. Demeester</i>	Mo.B4.1 Economics and markets of semiconductor optical amplifiers (<i>Invited</i>) 11:30 <i>L. Spiekman</i>	Mo.B5.1 Channel models for optical wireless communication systems (<i>Invited</i>) 11:30 <i>H. Joshi, R.J. Green, M.S. Leeson</i>
Mo.B1.2 Shaping the supercontinuum spectral profile (<i>Invited</i>) 11:50 <i>J.J. Miret, E. Silvestre, P. Andrés</i>	Mo.B2.2 Remote functionalities in next generation networks (<i>Invited</i>) 11:50 <i>G.M. Tosi Beleffi, A.L.J. Teixeira, N. Wada</i>	Mo.B3.2 Control plane issues in cross-layer optimized dynamic optical networks (<i>Invited</i>) 11:50 <i>C. Vijaya Saradhi, E. Salvadori, A. Zanardi, S. Dalsass, R. Piesiewicz, I. Tomkos</i>	Mo.B4.2 The prospects of FTTH deployments and their impact on our (broadband) world (<i>Invited</i>) 11:50 <i>I. Tomkos, M. Angelou</i>	Mo.B5.2 Reliable optical wireless links used as feeder links between earth and satellite (<i>Invited</i>) 11:50 <i>E. Leitgeb, P. Brandl, T. Plank, M. Löschnigg, F. Ozek, M.S. Awan, M. Wittig</i>
Mo.B1.3 Effects of pulse self-focusing on supercontinuum generation in multimode optical fibers (<i>Invited</i>) 12:10 <i>P. Horak, F. Poletti</i>	Mo.B2.3 Orthogonal frequency division multiplexing (OFDM) in optical communications with direct detection for metro networks (<i>Invited</i>) 12:10 <i>W. Rosenkranz, A. Ali, J. Leibrich</i>	Mo.B3.3 Differentiated resilience for anycast flows in MPLS networks 12:10 <i>T.E.H. El-Gorashi, J.M.H. Elmirghani</i>	Mo.B4.3 Economic analysis of future access network deployment and operation (<i>Invited</i>) 12:10 <i>B. Lannoo, M. Kantor, L. Wosinska, Ko. Casier, J. Van Ooteghem, S Verbrugge, J. Chen, K. Wajda, M. Pickavet</i>	Mo.B5.3 Advances and prospects in high-speed information broadcast using phosphorescent white-light LEDs (<i>Invited</i>) 12:10 <i>K.-D. Langer, J. Vučić, C. Kottke, L. Fernández del Rosal, S. Nerreter, J.W. Walewski</i>

Mo.B1.4 12:30	Rogue waves in femtosecond supercontinuum generation (<i>Invited</i>) <i>G. Genty, M. Erkintalo, J.M. Dudley</i>	Mo.B2.4 12:30	PAPR reduction techniques for coherent optical OFDM transmission (<i>Invited</i>) <i>B. Goebel, S. Hellerbrand, N. Haufe, N. Hanik</i>	Mo.B3.4 12:25	Efficient traffic routing for current and future demands in optical networks <i>K.D.R. Assis, K.C. Cruz, M.S. Savasini, H. Waldman</i>	Mo.B4.4 12:30	The market, rationale and technology options for flexible transparent optical networks (<i>Invited</i>) <i>R. Dorward</i>	Mo.B5.4 12:30	UMTS radio-over-fiber pico-cell interconnection employing low-cost VCSELs and multi-mode fibre <i>R. Alemany, R. Llorente</i>
Mo.B1.5 12:50	High brilliance fiber lasers for the scribing of photovoltaic modules (<i>Invited</i>) <i>S. Selleri, A. Cucinotta, F. Poli, D. Passaro</i>	Mo.B2.5 12:50	All-optical processing, still a chance with DP-DQPSK (<i>Invited</i>) <i>R. Morais, P. Monteiro, P. Marques</i>	Mo.B3.5 12:40	Differentiated resilience with dynamic traffic grooming for WDM mesh networks <i>T.E.H. El-Gorashi, J.M.H. Elmirghani</i>	Mo.B4.5 12:50	A new approach to provide the differentiated levels of network survivability under a double node failure (<i>Invited</i>) <i>J. Rak, W. Molisz</i>	Mo.B5.5 12:45	MEO optical intersatellite network: Performance evaluation <i>V. Carozzo, G. Parca</i>
				Mo.B3.6 12:55	The performance for heuristic algorithms for virtual topology design in all optical WDM networks <i>F. El-Khamy, M. Nasr, H.M.H. Shalaby, HT. Mouftah</i>			Mo.B5.6 13:00	Background noise limitations on optical intersatellite links for data relay applications <i>E. Duca</i>

12:40 - 14:10 **Lunch break** 12:40 - 14:10 **Lunch break** 12:40 - 14:10 **Lunch break** 12:40 - 14:10 **Lunch break**

SESSION Mo.C1 (14:10 – 15:50) Room: Main Auditorium (A1)		SESSION Mo.C2 (14:10 – 15:40) Room: North Auditorium (A2)		SESSION Mo.C3 (14:10 – 15:50) Room: South Auditorium (A3)		SESSION Mo.C4 (14:10 – 15:45) Room: Small Auditorium (A6)		SESSION Mo.C5 (14:10 – 15:45) Room: 12 (A4)	
SWP WG3 II Quantum Dots <i>Chair: Jose Pozo</i>		ICTON II Systems II <i>Chair: Madeleine Glick</i>		WAOR II Optical Burst Switching I <i>Chair: Darli Mello</i>		MARS II <i>Chair: Bostjan Batagelj</i>		GOWN I <i>Chair: Eszter Udvary</i>	
Mo.C1.1 14:10	Quantum dot waveguides: ultrafast dynamics and applications (<i>Invited</i>) <i>Y. Chen, J. Mørk</i>	Mo.C2.1 14:10	40 Gb/s optical single-sideband transmission resorting to pseudolinear regime and electrical dispersion compensation (<i>Invited</i>) <i>D. Fonseca, A. Cartaxo, P. Monteiro</i>	Mo.C3.1 14:10	A performance survey on deflection routing techniques for OBS networks (<i>Invited</i>) <i>O. Pedrola, S. Rumley, D. Careglio, M. Klinkowski, P. Pedroso, J. Solé-Pareta, C. Gaumier</i>	Mo.C4.1 14:10	A statistical model for CapEx fast calculation in optical transport networks (<i>Invited</i>) <i>A.N. Pinto, C. Pavan, R.M. Morais</i>	Mo.C5.1 14:10	Convergence of optical and millimeter-wave broadband wireless access networks (<i>Invited</i>) <i>M.C.R. Medeiros, R. Avó, P. Laurêncio, I. Darwazeh, J.E. Mitchell, P.M.N. Monteiro, H.J.A. da Silva</i>
Mo.C1.2 14:30	Polarization instabilities and nonlinear dynamics in a quantum dot laser (<i>Invited</i>) <i>Ł. Olejniczak, M. Sciamanna, H. Thienpont, K. Panajotov, A. Mutig, F. Hopfer, D. Bimberg</i>	Mo.C2.2 14:30	Recent developments in 40 Gsymbol/s coherent WDM (<i>Invited</i>) <i>F.C. Garcia-Gunning, A.D. Ellis, J. Zhao, S. Ibrahim, P. Frascella, B. Cuenot</i>	Mo.C3.2 14:30	Adaptive burst admission and forwarding in OBS networks (<i>Invited</i>) <i>S. Rumley, O. Pedrola, M. Klinkowski, P. Pedroso, C. Gaumier, D. Careglio, J. Solé-Pareta</i>	Mo.C4.2 14:30	Importance of reliability when dimensioning an optical transparent network with physical impairments awareness (<i>Invited</i>) <i>A. Morea, T. Zami, F. Leplingard</i>	Mo.C5.2 14:30	Experimental analysis of temperature dependence in multimode optical fiber links for Radio-over-Fiber applications <i>D.S. Montero, I. Gasulla, I. Möllers, D. Jäger, J. Capmany, C. Vázquez</i>
Mo.C1.3 14:50	Optimum filtering schemes for performing wavelength conversion with quantum-dot SOA (<i>Invited</i>) <i>S. Sygletos, R. Bonk, T. Vallaitis, A. Marculescu, P. Vorreau, J. Li, R. Brenot, F. Lelarge, G.H. Duan, W. Freude, J. Leuthold</i>	Mo.C2.3 14:50	Field trial to improve the fibre infrastructure towards 40 Gbit/s transmission and beyond and decrease economically efficient the link PMD by exploitation of a POTDR (<i>Invited</i>) <i>A. Ehrhardt, M. Paul, L. Schürer, C. Gerlach, W. Krönert, D. Fritzsche, D. Breuer, V. Fürst, N. Cyr, H. Chen, G.W. Schinn</i>	Mo.C3.3 14:50	Routing with prioritization based on statistics in OBS networks (<i>Invited</i>) <i>M. Escolar Díaz, X. Hesselbach</i>	Mo.C4.3 14:50	Management platform for next generation optical networks (<i>Invited</i>) <i>K. Janicki, P. Mrozicki, P. Wiatr</i>	Mo.C5.3 14:45	Experimental evaluation of the transmission in a low cost SCM/WDM radio over fiber system employing optical broadband sources and interferometric structures <i>F. Grassi, J. Mora, B. Ortega, J. Capmany</i>
Mo.C1.4 15:10	Optical fibre sensing and analytical imaging with semiconductor nanocrystals (<i>Invited</i>) <i>P.A.S. Jorge, C. Maule, H. Rodrigues, J.C.G. Esteves da Silva, F. Farahi</i>	Mo.C2.4 15:10	Analysis of NRZ- and RZ-DQPSK for 112 Gb/s DWDM transmission <i>L. Wang, M. Forzati, J. Martensson</i>	Mo.C3.4 15:10	Evaluation of resource reservation protocols for IP over OBS networks (<i>Invited</i>) <i>J.J.P.C. Rodrigues, B. Vaidya</i>	Mo.C4.4 15:10	Rationale for polymer optical fibres in-building cabling (<i>Invited</i>) <i>S. Abrate, R. Gaudino, A. Nocivelli</i>	Mo.C5.4 15:00	Extension of a 40 Gbps link with a directly detected 2.5 Gbps subcarrier channel <i>M. Chaciński, R. Schatz, U. Westergren, A. Djupsjöbacka</i>
Mo.C1.5 15:30	Ultrafast processes in InAs/GaAs quantum dot based electro-absorbers (<i>Invited</i>) <i>T. Piwonski, J. Pulka, G. Madden, J. Houlihan,</i>	Mo.C2.5 15:25	Estimation of non-linear effects and chromatic dispersion compensation on propagation of 100 Gb/s signals <i>M. Karásek, J. Vojtěch,</i>	Mo.C3.5 15:30	Traffic grooming in OBS networks based on virtual optical memories (<i>Invited</i>) <i>N. Boudriga, W. Abdallah, M. Hamdi</i>	Mo.C4.5 15:30	Mechanisms for cost-effective P2P traffic management <i>M. Kantor, J. Derkacz, P. Cholda, S. Soursos, G. Stamoulis</i>	Mo.C5.5 15:15	A heuristic for fault-tolerance provisioning in multi-radio hybrid wireless-optical broadband access network <i>G. Schütz, N.S.C. Correia</i>

Mo.C5.6 Hybrid communication system
15:30 applying electric CDMA over
optical WDM
A. Amador, A. Teixeira,
M. Lima

15:30 - 16:15 Coffee-break 15:30 - 16:15 Coffee-break 15:30 - 16:15 Coffee-break 15:30 - 16:15 Coffee-break 15:30 - 16:15 Coffee-break

15:30 - 16:15	15:30 - 16:15	15:30 - 16:15	15:30 - 16:15	15:30 - 16:15	15:30 - 16:15
<p>SESSION Mo.D1 (16:15 – 17:45) <i>Room: Main Auditorium (A1)</i></p> <p>SWP WG3 III VCSELS <i>Chair: Severine Philippe</i></p> <p>Mo.D1.1 Recent developments in 16:15 long wavelength VCSELS based on localized wafer fusion (<i>Invited</i>) E. Kapon, A. Sirbu, V. Jakovlev, A. Mereuta, A. Caliman, G. Suruceanu</p> <p>Mo.D1.2 Vectorial analysis of 16:35 dielectric photonic crystal VCSEL (<i>Invited</i>) Il-Sug Chung, J. Mørk</p> <p>Mo.D1.3 Characterization of GaSb 16:55 based VCSE and MQW lasers for 2.3 μm sensing application (<i>Invited</i>) S. Civiš, J. Cihelka, I. Matulková</p> <p>Mo.D1.4 VCSEL laser 17:15 characterization and modelling for future optical transceiver at the Super Large Hadron Collider S. Silva, H.M. Salgado</p> <p>Mo.D1.5 Temperature reduction in 17:35 vertical-external-cavity surface-emitting-lasers (VECSEL) active region M. Wasiak, R.P. Sarzafa, A. Jasik</p>	<p>SESSION Mo.D2 (16:15 – 17:50) <i>Room: North Auditorium (A2)</i></p> <p>ICTON III Networks <i>Chair: Roger Green</i></p> <p>Mo.D2.1 Increasing scope for circuit 16:15 switching in the optical Internet (<i>Invited</i>) M. Zukerman</p> <p>Mo.D2.2 A generic time driven 16:35 fractional wavelength OCS (<i>Invited</i>) Z. Rosberg, D. Ostry</p> <p>Mo.D2.3 Management and control of 16:55 transparent optical network considering physical impairments (<i>Invited</i>) M. Suzuki, T. Tsuritani</p> <p>Mo.D2.4 Performance analysis of 17:15 Harmony: An optical, multi- domain network resource broker (<i>Invited</i>) S. Figuerola, J.A. García- Espin, J. Ferrer, A. Willner</p> <p>Mo.D2.5 Method for placing bypass 17:35 capable nodes in two-layer networks M. Schlosser, E. Patzak</p>	<p>SESSION Mo.D3 (16:15 – 17:40) <i>Room: South Auditorium (A3)</i></p> <p>WAOR III Optical Burst Switching II <i>Chair: Manos Varvarigos</i></p> <p>Mo.D3.1 Lightpath establishment in PCE- 16:15 based dynamic transparent optical networks assisted by end-to-end quality of transmission estimation (<i>Invited</i>) N. Sambo, Y. Pointurier, F. Cugini, P. Castoldi, I. Tomkos</p> <p>Mo.D3.2 Optimized node dimensioning in 16:35 OBS networks using contention minimization in the wavelength domain (<i>Invited</i>) J. Pedro, P. Monteiro, J. Pires</p> <p>Mo.D3.3 Anycast routing in OBS based 16:55 grid networks under heterogeneous traffic W. Adlan, T.E.H. El-Gorashi, J.M.H. Elmirghani</p> <p>Mo.D3.4 On avoiding-minimizing burst 17:15 collisions in optical burst- switched networks without wavelength conversion J. Triay, J. Perelló, C. Cervelló-Pastor, S. Spadaro</p> <p>Mo.D3.5 An optical burst switched access 17:35 and distribution architecture G. Franzl</p>	<p>SESSION Mo.D4 (16:15 – 17:35) <i>Room: Small Auditorium (A6)</i></p> <p>MARS III <i>Chair: Wojciech Molisz</i></p> <p>Mo.D4.1 FTTH networks deployment in 16:15 Slovenia (<i>Invited</i>) B. Batagelj</p> <p>Mo.D4.2 ICT and telecommunication 16:35 competencies in the Mediterranean (<i>Invited</i>) R. Angeletti</p> <p>Mo.D4.3 Effects of liberalization of telecom markets in developing 16:55 countries: Armenia 1998-2008 case study (<i>Invited</i>) V. Baghdasaryan (<i>Cancelled</i>)</p> <p>Mo.D4.4 Optical packet switch and 16:55 transport: A new metro platform to reduce costs and power by 50% to 75% while simultaneously increasing deterministic performance levels (<i>Invited</i>) J. Dunne, T. Farrell, J. Shields</p> <p>Mo.D4.5 Optical transport networks: An 17:15 industry perspective (<i>Invited</i>) Á. Carvalho</p>	<p>SESSION Mo.D5 (16:15 – 17:45) <i>Room: 12 (A4)</i></p> <p>GOWN II <i>Chair: Carmo Medeiros</i></p> <p>Mo.D5.1 External modulator 16:15 linearization techniques for high performance radio over fiber transmission systems (<i>Invited</i>) A. Ferreira, T. Silveira, D. Fonseca, R. Ribeiro, P. Monteiro</p> <p>Mo.D5.2 Multifunctional SOAs in optical 16:35 communication systems (<i>Invited</i>) E. Udvary, T. Berceli</p> <p>Mo.D5.3 Microwave photonics 16:55 processing controlling the speed of light in semiconductor waveguides (<i>Invited</i>) W. Xue, Y. Chen, S. Sales, S. Blaaberg, J. Mørk, J. Capmany</p> <p>Mo.D5.4 Simulation of mm-wave over 17:15 fiber systems employing up- conversion using external modulators H. Vargues, R. Avó, P. Laurêncio, M.C.R. Medeiros</p> <p>Mo.D5.5 Novel photonic RF 17:35 instantaneous frequency measurement system using a HiBi fiber-based interferometer M. Drummond, P. Monteiro, R. Nogueira</p> <p>SESSION Bone WP 15 (18:00 – 19:00) <i>Room: 12 (A5)</i></p>	

19:30 – 24:00 Ocean View Dinner (Hotel Açores Atlantico) Cultural Program: Fado/Portuguese Guitar

8:30 Registration				
<p>SESSION Tu.A1 (9:00 – 10:40) <i>Room: Main Auditorium (A1)</i></p> <p>SWP WG3 IV Nonlinearity <i>Chair: Katia Gallo</i></p> <p>Tu.A1.1 9:00 Phase locked harmonics etalon localization in opaque materials (<i>Invited</i>) <i>C. Cojocar, V. Roppo, G. D'Aguanno, F. Raineri, J. Trull, R. Raj, R. Vilaseca, M. Scalora</i></p> <p>Tu.A1.2 9:20 Some selected and functionalised organometallic molecules for NLO applications (<i>Invited</i>) <i>B. Sahraoui, R. Czaplinski, J. Luc, J-L. Fillaut</i></p> <p>Tu.A1.3 9:40 Sensitivities of different nonlinear optical characterization techniques (<i>Invited</i>) <i>G. Boudebs, K. Fedus</i></p> <p>Tu.A1.4 10:00 Second harmonic generation signal from full deep shade moisture plants using the two-photon laser scanning microscope (<i>Invited</i>) <i>A.H. Reshak</i></p> <p>Tu.A1.5 10:20 Nonlinear optical response of water dispersions of iron oxide nanoparticles (<i>Invited</i>) <i>S. Couris</i></p>	<p>SESSION Tu.A2 (9:00 – 10:50) <i>Room: North Auditorium (A2)</i></p> <p>ICTON IV Amplification <i>Chair: Leo Spiekman</i></p> <p>Tu.A2.1 9:00 Ultra-long Raman fibre laser transmission links (<i>Invited</i>) <i>V. Karalekas, J-D. Ania-Castañón, P. Harper, S.K. Turitsyn</i></p> <p>Tu.A2.2 9:20 Raman amplification challenges for next generation networks (<i>Invited</i>) <i>P.S. André, B. Neto, C. Reis, A.M. Rocha, N. Wada, G.M. Tosi Beleffi, A. Teixeira</i></p> <p>Tu.A2.3 9:40 Spontaneous emission from saturated parametric amplifiers (<i>Invited</i>) <i>K. Rottwitt, J. Raunkjær Ott, H. Steffensen, S. Ramachandran</i></p> <p>Tu.A2.4 10:00 All-optical conversion to vestigial sideband through self-phase modulation in semiconductor optical amplifier (<i>Invited</i>) <i>T. Silveira, A. Ferreira, A. Teixeira, P. Monteiro</i></p> <p>Tu.A2.5 10:20 Transmission of 20x10GE channels over 334 km in a cascade of three TDM-pumped RFAs <i>M. Karásek, J. Vojtěch, J. Radil</i></p> <p>Tu.A2.6 10:35 Experimental evaluation of modulation induced by continuous waves in a semiconductor optical amplifier <i>S. Di Bartolo, E. Duca, D.M. Forin, S. Betti, A.L.J. Teixeira</i></p>	<p>SESSION Tu.A3 (9:00 – 10:45) <i>Room: South Auditorium (A3)</i></p> <p>WAOR IV Impairment-Aware Routing <i>Chair: Davide Careglio</i></p> <p>Tu.A3.1 9:00 Impairment aware wavelength assignment for all-optical networks based on evolutionary computation (<i>Invited</i>) <i>C.J.A. Bastos-Filho, D.A.R. Chaves, F.S.F. e Silva, R.V.B. Carvalho, H.A. Pereira, J.F. Martins-Filho</i></p> <p>Tu.A3.2 9:20 Improving IA-RWA algorithms in translucent networks by regenerator allocation (<i>Invited</i>) <i>E. Marín-Tordera, R. Martínez, R. Muñoz, R. Casellas, J. Solé-Pareta</i></p> <p>Tu.A3.3 9:40 Cross layer RWA in WDM networks: Is the added complexity useful or a burden? (<i>Invited</i>) <i>K. Christodoulopoulos, P. Kokkinos, K. Manousakis, E.A. Varvarigos</i></p> <p>Tu.A3.4 10:00 RWA algorithm aware of PMD and ASE for all-optical networks <i>M. Massimino-Feres, L.C. Trevelin</i></p> <p>Tu.A3.5 10:15 Online physical-layer impairment-aware routing with quality of transmission constraints in translucent optical networks <i>S. Pachnicke, N. Luck, P.M. Krummrich</i></p> <p>Tu.A3.6 10:30 Novel physical-layer impairment-aware routing algorithm for translucent optical networks with 43 Gb/s and 107 Gb/s channels <i>S. Pachnicke, N. Luck, P.M. Krummrich</i></p>	<p>SESSION Tu.A4 (9:00 – 10:30) <i>Room: Small Auditorium (A6)</i></p> <p>SWP WG1 I Applications <i>Chair: Nigel P Johnson</i></p> <p>Tu.A4.1 9:00 Recent advances in interferometry using suspended core fibres (<i>Invited</i>) <i>O. Frazão, J.M. Baptista, J.L. Santos, J. Kobelke, K. Schuster</i></p> <p>Tu.A4.2 9:20 Perfect lens tomography (<i>Invited</i>) <i>K.P. Gaikovich</i></p> <p>Tu.A4.3 9:40 Scanning laser microscopy: From far field to near field (<i>Invited</i>) <i>G.A. Stanciu, C. Stoichita, S.G. Stanciu</i></p> <p>Tu.A4.4 10:00 Metal nanolens transforming far-field into far-field <i>P. Wrobel, T.J. Antosiewicz, J. Pniewski, T. Szoplík</i></p> <p>Tu.A4.5 10:15 Superfocusing on a dielectric-metal-dielectric apertureless scanning near-field optical microscope probe <i>T.J. Antosiewicz, P. Wrobel, T. Szoplík</i></p>	<p>SESSION Tu.A5 (9:00 – 10:35) <i>Room: 12 (A4)</i></p> <p>GOWN III <i>Chair: František Uherek</i></p> <p>Tu.A5.1 9:00 Ultra-wideband radio-over-fibre in transparent optical networks (<i>Invited</i>) <i>R. Llorente, M. Morant, M. Beltran</i></p> <p>Tu.A5.2 9:20 Issues and solutions in mobile WiMAX and wired backhaul network integration (<i>Invited</i>) <i>L. Valcarenghi, P. Monti, I. Cerutti, P. Castoldi, L. Wosinska</i></p> <p>Tu.A5.3 9:40 Integrated optical wireless access: Advanced topologies for future access networks (<i>Invited</i>) <i>C. Bock, T. Quinlan, M.P. Thakur, S.D. Walker</i></p> <p>Tu.A5.4 10:00 Advanced PON topologies with wireless connectivity (<i>Invited</i>) <i>M. Milosavljevic, P. Kourtessis, A. Gliwan, J.M. Senior</i></p> <p>Tu.A5.5 10:20 OFDM signals in WDM radio-over-fiber networks with fiber Bragg grating selection <i>D. Coelho, H.M. Salgado</i></p>
10:30 - 11:15 Coffee-break				

SESSION Tu.B1 (11:15 – 12:45) <i>Room: Main Auditorium (A1)</i>	SESSION Tu.B2 (11:15 – 12:20) <i>Room: North Auditorium (A2)</i>	SESSION Tu.B3 (11:15 – 12:50) <i>Room: South Auditorium (A3)</i>	SESSION Tu.B4 (11:15 – 12:50) <i>Room: Small Auditorium (A6)</i>	SESSION Tu.B5 (11:15 – 12:50) <i>Room: 12 (A4)</i>
SWP WG3 V Fibers <i>Chair: Crina Cojocaru</i>	ICTON V Systems III <i>Chair: Werner Rosenkranz</i>	WAOR V Architecture <i>Chair: Aldo Campi</i>	SWP WG2 I <i>Chair: Bjorn Maes</i>	BONE-SARDANA I <i>Chair: Karin Ennser</i>
Tu.B1.1 11:15 Highly functional all optical control using ultrafast nonlinear phenomena in optical fibers (<i>Invited</i>) <i>N. Nishizawa</i>	Tu.B2.1 11:15 Simplified back-propagation equalization in WDM coherent polarization multiplexed systems (<i>Invited</i>) <i>L.M. Pessoa, H.M. Salgado, I. Darwazeh</i>	Tu.B3.1 11:15 Admission control policies in flow-aware networks (<i>Invited</i>) <i>J. Domżał, R. Wójcik, A. Jajszczyk, V. López, J.A. Hernández, J. Aracil</i>	Tu.B4.1 11:15 Magnetic tuning of optical fibre long period gratings utilizing ferrofluids (<i>Invited</i>) <i>M. Konstantaki, A. Candiani, S. Pissadakis</i>	Tu.B5.1 11:15 Technologies and practical aspects of next generation optical networking (<i>Invited</i>) <i>M. Cvjetic</i>
Tu.B1.2 Frequency doubling by nonlinear diffraction in nonlinear photonic crystals (<i>Invited</i>) <i>S.M. Saltiel, D.N. Neshev, W. Krolikowski, A. Arie, Y.S. Kivshar</i> <i>(Cancelled)</i>	Tu.B2.2 11:35 Rate-adaptive non-binary-LDPC-coded polarization-multiplexed multilevel modulation with coherent detection for optically-routed networks <i>M. Arabaci, I.B. Djordjevic, R. Saunders, R.M. Marcoccia</i>	Tu.B3.2 11:35 An experimental GMPLS-controlled network test-bed enabling sub-wavelength connection provisioning (<i>Invited</i>) <i>F. Agraz, L. Velasco, J. Perelló, M. Ruiz, S. Spadaro, G. Junyent, J. Comellas</i>	Tu.B4.2 11:35 Organic-inorganic hybrids for the new generation of optical networks (<i>Invited</i>) <i>R.A.S. Ferreira, C.M.S. Vicente, E. Pecoraro, P.S. André, R. Nogueira, V. Zea-Bermudez, P.V.S. Marques, S.J.L. Ribeiro, L.D. Carlos</i>	Tu.B5.2 11:35 Next generation PON systems – Current status (<i>Invited</i>) <i>M. Hajduczenia, Z. Boshan, H.J.A. da Silva</i>
Tu.B1.3 11:35 Photonic crystal fiber devices fabricated by air hole control using CO ₂ laser irradiation technique (<i>Invited</i>) <i>H. Yokota, Y. Imai, Y. Sasaki</i>	Tu.B2.3 11:50 Impact of inter-symbol interference on optical DQPSK systems performance evaluation using equivalent differential phase <i>N.M.S. Costa, A.V.T. Cartaxo</i>	Tu.B3.3 11:55 Storage area networks extension scenarios in a wide area WDM mesh architecture under heterogeneous traffic (<i>Invited</i>) <i>T.E.H. El-Gorashi, A. Mujtaba, W. Adlan, J.M.H. Elmirghani</i>	Tu.B4.3 11:55 Dielectric and plasmon slot waveguides for photonic integration (<i>Invited</i>) <i>B. Jaskorzynska, Y. Song, N. Zhu, Z. Wang, M. Qiu, L. Wosinski</i>	Tu.B5.3 11:55 On the symmetry requirements for tomorrow's fibre access networks (<i>Invited</i>) <i>M. Forzati, C. Popp Larsen</i>
Tu.B1.4 11:55 Control of modal properties and modal effects in air guiding photonic bandgap fibres (<i>Invited</i>) <i>M.N. Petrovich, F. Poletti, D.J. Richardson</i>	Tu.B2.4 12:05 Transience analysis of bursty traffic with erbium doped fiber amplifiers <i>C. Reis, B. Neto, R. Dionisio, G. Incerti, G. Tosi Beleffi, D. Forin, A. M. Rocha, A.L.J. Teixeira, P.S. André</i>	Tu.B3.4 12:15 Some open issues in multi-domain/multi-operator/multi-granular ASON/GMPLS networks (<i>Invited</i>) <i>S. Spadaro, L. Velasco, J. Perelló, F. Agraz, J. Comellas, G. Junyent</i>	Tu.B4.4 12:15 Asymmetric split ring resonators for organic sensing (<i>Invited</i>) <i>B. Lahiri, S.G. McMeekin, A.Z. Khokhar, R.M. De La Rue, N.P. Johnson</i>	Tu.B5.4 12:15 Agile reconfigurable and traffic adapted all-optical access-metro networks (<i>Invited</i>) <i>J. Segarra, V. Sales, J. Prat</i>
Tu.B1.5 12:15 Transmission properties of highly nonlinear photonic crystal fiber with huge air-fraction volume and doped core <i>M. Lucki</i>		Tu.B3.5 12:35 Performance evaluation of a QoS technique for bufferless optical packet switches <i>V. Eramo, A. Germoni, A. Cianfrani, F. Lo Buono</i>	Tu.B4.5 12:35 Hybrid organic active waveguide for C-band applications <i>S. Penna, A. Reale, G.M. Tosi Beleffi, S. Shinada, M. Nakao, N. Wada, A.L.J. Teixeira, P.S.B. Andre</i>	Tu.B5.5 12:35 Cost effectiveness of site reduction in optical access networks: A CapEx based comparison of different technologies <i>C. Lange, D. Breuer, R. Huelsermann</i>
Tu.B1.6 12:30 Negative chromatic dispersion in selected types of photonic crystal fibers obtained by bending <i>M. Lucki</i>				
12:40 - 14:00 <i>Lunch break</i>	12:40- 14:00 <i>Lunch break</i>	12:40 - 14:00 <i>Lunch break</i>	12:40 - 14:00 <i>Lunch break</i>	12:40 - 14:00 <i>Lunch break</i>
13:45 - 14:15 Poster Exhibition (Session I)				

SESSION Tu.C1 (14:00 – 15:40) Room: Main Auditorium (A1)		SESSION Tu.C2 (14:00 – 15:40) Room: North Auditorium (A2)		SESSION Tu.C3 (14:00 – 15:40) Room: South Auditorium (A3)		SESSION Tu.C4 (14:00 – 15:40) Room: Small Auditorium (A6)		SESSION Tu.C5 (14:00 – 15:40) Room: 12 (A4)	
SWP WG3 VI Modelling Chair: Igor Nefedov		ICTON VI Systems IV Chair: Norbert Hanik		RONEXT I Economics Chair: Wayne Grover		MPM I Chair: Alexander I. Nosich		BONE-SARDANA II Chair: Josep Segarra	
Tu.C1.1 14:00	Gain/loss periodic spatial modulated materials on a wavelength scale (<i>Invited</i>) K. Staliunas, R. Herrero, R. Vilaseca	Tu.C2.1 14:00	Enhancing performance of optical communication systems with advanced optical signal processing (<i>Invited</i>) I. Glesk	Tu.C3.1 14:00	Impact of protection mechanisms on cost in PONs (<i>Invited</i>) L. Wosinska, J. Chen, C. Mas Machuca, M. Kantor	Tu.C4.1 14:00	Cavity-enhanced structural colour in extrudeable photonic crystals (<i>Invited</i>) J. Baumberg, D. Snoswell, A. Kontogeorgos, P. Spahn, O. Pursiainen	Tu.C5.1 14:00	BONE: Your gateway to European optical networks research (<i>Invited</i>) P. Van Daele
Tu.C1.2 14:20	Scattering of transformed frequency on partial spherical waves induced by time change of the medium (<i>Invited</i>) A. Nerukh, N. Sakhnenko, T. Remayeva	Tu.C2.2 14:20	Performance analysis of 2D optical CDMA system with non-ideal optical hard-limiters (<i>Invited</i>) J. Chovan, F. Uherek	Tu.C3.2 14:20	Cost efficiency of protection in future transparent networks (<i>Invited</i>) D. Staessens, D. Colle, M. Pickavet, P. Demeester	Tu.C4.2 14:20	Fundamentals and applications of microsphere resonator circuits (<i>Invited</i>) V.N. Astratov	Tu.C5.2 14:20	Performance evaluation methods of direct-detection OFDM systems (<i>Invited</i>) A. Cartaxo, T. Alves
Tu.C1.3 14:40	Cylindrical multilayer dielectric waveguide with time-varying material properties (<i>Invited</i>) N. Sakhnenko, A. Nerukh	Tu.C2.3 14:40	Important device limitations of transmitter and receiver concepts when designing 100G transmission systems (<i>Invited</i>) C. Arellano, H. Louchet, I. Koltchanov, A. Richter	Tu.C3.3 14:40	Experimental evaluation of the link cost impact in OSNR-based IRWA algorithms for GMPLS-enabled translucent WSON (<i>Invited</i>) R. Martínez, R. Casellas, R. Muñoz, T. Tsuritani	Tu.C4.3 14:40	Multi-photon dynamics in multiple coupled-cavity defects in photonic crystal slabs S.R. Doutre, M.M. Dignam	Tu.C5.3 14:40	Viability of in-service, low-cost and spatially unambiguous OTDR monitoring in TDM- and WDM-PON access networks L. Costa, J.A. Lázaro, V. Pólo, A. Teixeira
Tu.C1.4 15:00	Numerical analysis of impact of DBRs' outermost layers on optical characteristics of a surface-normal electro-absorption modulator by the method of single expression (<i>Invited</i>) H.V. Baghdasaryan, T.M. Knyazyan, A.S. Berberyan, T.T. Hovhannisyan, M. Marciniak	Tu.C2.4 15:00	Testbed methods to study physical layer path establishment in long haul optical wavelength switched networks (<i>Invited</i>) A. Morea, D.C. Kilper, I.S. Lin, F. Leplingard, S. Chandrasekhar, T. Zami, J-C. Antona	Tu.C3.4 15:00	MILP formulations for scheduling lightpaths under periodic traffic (<i>Invited</i>) B. Garcia-Manrubia, R. Aparicio-Pardo, P. Pavon-Mariño, N. Skorin-Kapov, J. Garcia-Haro	Tu.C4.4 14:55	Coupled photonic-crystal cavities and quantum-wire microlasers K.A. Atlasov, K.F. Karlsson, P. Gallo, M. Calic, A. Rudra, B. Dwir, E. Kapon	Tu.C5.4 14:55	Optimization of passive optical networks by means of fiber nonlinearities interference reduction J.D. Reis, B. Neto, P.S. André, A. Teixeira
Tu.C1.5 15:20	Electromagnetic wave propagation in active and passive multilayered nanostructures (<i>Invited</i>) O. Shramkova, A. Bulgakov, V. Kononenko	Tu.C2.5 15:20	Optical frequency domain reflectometry: A review (<i>Invited</i>) K. Yuksel, M. Wuilpart, V. Moeyaert, P. Mégret	Tu.C3.5 15:20	The PlaNet-OTN module: A double layer design tool for optical transport networks (<i>Invited</i>) L. Tang, S. Billenahalli, W. Huang, M. Razo, A. Sivasankaran, H. Vardhan, P. Monti, M. Tacca, A. Fumagalli	Tu.C4.5 15:10	Unidirectional vertical emission from photonic crystal nanolasers S-H. Kim, Y-H. Lee, J. Huang, A. Scherer	Tu.C5.5 15:10	A passive optical network based on centralized wavelength and bandwidth scalable OFDM signals J.A.L. Silva, D.J.C. Coura, A.P. Lopez Barbero, M.E.V. Segatto
Tu.C1.6 15:40	Quasi-optical description of wave beams in smoothly inhomogeneous anisotropic media (<i>Invited</i>) A.I. Smirnov, A.A. Balakin, L.A. Smirnov					Tu.C4.6 15:25	Systematization of all resonance modes in circular dielectric cavities C.P. Dettmann, G.V. Morozov, M. Sieber, H. Waalkens	Tu.C5.6 15:25	Transmission of 10 Gb/s per wavelength in a hybrid WDM/TDM access network providing bandwidth on-demand P.J. Urban, F.M. Huijskens, G.D. Khoe, A.M.J. Koonen, H. de Waardt
15:40 - 16:20	Coffee-break	15:40 - 16:12	Coffee-break	15:40 - 16:20	Coffee-break	15:40 - 16:20	Coffee-break	15:40 - 16:20	Coffee-break

SESSION Tu.D1 (16:20 – 18:00) <i>Room: Main Auditorium (A1)</i>	SESSION Tu.D2 (16:10 – 17:25) <i>Room: North Auditorium (A2)</i>	SESSION Tu.D3 (16:10 – 17:25) <i>Room: South Auditorium (A3)</i>	SESSION Tu.D4 (16:10 – 17:35) <i>Room: Small Auditorium (A6)</i>	SESSION Tu.D5 (16:10 – 17:40) <i>Room: 12 (A4)</i>
SWP WG3 VII <i>Chair: Gaetano Assanto</i>	ICTON VII Signal Processing & Cryptography <i>Chair: Wolfgang Freude</i>	RONEXT II Protection <i>Chair: Ricardo Martínez</i>	MPM II <i>Chair: Vasily N. Astratov</i>	BONE-SARDANA III <i>Chair: Josep Prat</i>
Tu.D1.1 Efficient physical random bit generation with lasers 16:20 <i>(Invited)</i> <i>T. Harayama, A. Uchida, K. Yoshimura, P. Davis</i>	Tu.D2.1 All-optical signal processing techniques with fiber based devices 16:10 <i>(Invited)</i> <i>R.N. Nogueira, M. Drummond, C. Marques, A. Teixeira, P. André, P. Monteiro</i>	Tu.D3.1 A new approach to node-failure protection with span-protecting p-cycles 16:10 <i>(Invited)</i> <i>W.D. Grover, D. Onguetou</i>	Tu.D4.1 Eigenmode evolution in an atom-cavity system 16:10 <i>(Invited)</i> <i>K. An</i>	Tu.D5.1 Extending reach of passive optical networks through optical amplification 16:10 <i>(Invited)</i> <i>K. Ennser, M. Zannin, S. Taccheo</i>
Tu.D1.2 Chaotic quantum-dot InAs/InGaAsP/InP (100) twin-stripe lasers for secure encrypted communication 16:40 <i>(Invited)</i> <i>J. Pozo, E. Smalbrugge, T. de Vries, M.K. Smit, D. Lenstra, R. Nötzel</i>	Tu.D2.2 Signal processing based on trigonometric transforms for high-speed optical networks 16:30 <i>(Invited)</i> <i>M. Svaluto-Moreolo, V. Sacchieri, G. Cincotti</i>	Tu.D3.2 Performance evaluation of dynamic p-cycle protection methods in WDM optical networks 16:30 <i>(Invited)</i> <i>A. Eshoul, H.T. Mouftah</i>	Tu.D4.2 Spin superfluidity of exciton polaritons in microcavities 16:30 <i>(Invited)</i> <i>A. Kavokin</i>	Tu.D5.2 Recent progresses in RSOA-based WDM PON 16:30 <i>(Invited)</i> <i>K.Y. Cho, S.P. Jung, A. Murakami, A. Agata, Y. Takushima, Y.C. Chung</i>
Tu.D1.3 Polarized single photon emission for quantum cryptography based on colloidal nanocrystals 17:00 <i>(Invited)</i> <i>F. Pisanello, L. Martiradonna, P. Spinicelli, A. Fiore, J-P. Hermier, L. Manna, R. Cingolani, E. Giacobino, A. Bramati, M. De Vittorio</i>	Tu.D2.3 Cryptographic key distribution in optical systems: Quantum vs. chaos 16:50 <i>(Invited)</i> <i>A.A. Guerreiro</i>	Tu.D3.3 Dimensioning resilient optical Grids 16:50 <i>(Invited)</i> <i>C. Develder, J. Buysse, M. De Leenheer, B. Dhoedt</i>	Tu.D4.3 Silicon quantum dots in microdisk resonators: Stress-engineering of disk core for Q-factor tuning and enhancement 16:50 <i>M. Ghulinyan, A. Pitanti, M. Xie, D. Navarro-Urrios, A. Lui, G. Pucker, L. Pavesi</i>	Tu.D5.3 Reflective semiconductor optical amplifiers for passive optical networks 16:50 <i>(Invited)</i> <i>C. Michie, A. Kelly, I. Andonovic</i>
Tu.D1.4 High order harmonic passive mode-locking in double-clad fiber laser 17:20 <i>(Invited)</i> <i>F. Amrani, A. Haboucha, M. Salhi, H. Leblond, F. Sanchez</i>	Tu.D2.4 Quantum cryptography – The analysis of security requirements 17:10 <i>M. Niemiec</i>	Tu.D3.4 A novel protection mechanism in TDM-PON 17:10 <i>M.M. Carvalho, E.A. De Souza</i>	Tu.D4.4 Micro resonator stabilization by thin film coating 17:05 <i>Y. Jestin, S. Berneschi, G. Nunzi-Conti, A. Chiapini, M. Ferrari, G.C. Righini</i>	Tu.D5.4 Remotely pumped erbium doped fibre bidirectional amplifier for gain transient mitigation 17:10 <i>F. Bonada, J.A. Lázaro, V. Polo, P. Chanclou, G.M. Tosi Beleffi, J. Prat</i>
Tu.D1.5 Generation of parabolic pulses and applications for optical telecommunications 17:40 <i>(Invited)</i> <i>C. Finot, J.M. Dudley, D.J. Richardson, G. Millot</i>			Tu.D4.5 Dual wavelength Er ³⁺ :ZBLALiP whispering gallery mode laser 17:20 <i>L. Xiao, S. Trébaol, Y. Dumeige, Z. Cai, M. Mortier, P. Féron</i>	Tu.D5.5 L-band in-line remote amplification for an extended WDM/PON ring architecture 17:25 <i>S. Chatzi, I. Tomkos, J.A. Lázaro, J. Prat</i>
SESSION Bone WP 27 (18:00 – 19:00) <i>Room: 12 (A5)</i>				

19:30 – 24:00 Regional Dinner (Solar da Garça Restaurant) Cultural Program: Folklore

Wednesday, July 1

8:30 Registration

SESSION We.A1 (9:00 – 10:45) <i>Room: Main Auditorium (A1)</i>	SESSION We.A2 (9:00 – 10:40) <i>Room: North Auditorium (A2)</i>	SESSION We.A3 (9:00 – 10:40) <i>Room: South Auditorium (A3)</i>	SESSION We.A4 (9:00 – 10:50) <i>Room: 8 (A5)</i>	SESSION We.A5 (9:00 – 10:35) <i>Room: 12 (A4)</i>
SWP WG3 VIII Amplifiers <i>Chair: Bouchta Sahraoui</i>	ICTON VIII Signal Processing <i>Chair: Hitoshi Kawaguchi</i>	WAOR VI Switching <i>Chair: Nouredine Boudrigha</i>	MPM III <i>Chair: Trevor M Benson</i>	Novel Glasses I <i>Chair: Heike Ebendorff-Heidepriem</i>
We.A1.1 Laser sources based on rare earth doped glasses: Recent strategies 9:00 <i>(Invited)</i>	We.A2.1 Precise and high-speed lightwave control for huge-capacity transmission and	We.A3.1 Complexity/performance trade-off in optical packet switches 9:00 <i>(Invited)</i>	We.A4.1 Experimental and theoretical investigation of microresonators at Jena 9:00	We.A5.1 Tg: The glass door to photonic devices and integrated circuits 9:00 <i>(Invited)</i>

	L. Allegretti, G. Calò, A. Di Tommaso, A. D'Orazio, M. De Sario, M. Gallo, L. Mescia, T. Palmisano, V. Petruzzelli, F. Prudenzano	advanced optical signal processing (Invited) T. Kawanishi, T. Sakamoto, A. Chiba	F. Callegati, A. Campi, W. Cerroni	University (Invited) C. Schmidt, A. Chipouline, T. Käsebier, E-B. Kley, A. Tünnermann, L.I. Deych, T. Pertsch	A.B. Seddon, Z.G. Lian, W.J. Pan, D. Furniss, T.M. Benson
We.A1.2 9:20	Design, computation and characterization of thulium-doped photonic crystal fibre for emission around 1700 nm (Invited) L. Labonté, N. Ducros, P. Roy, G. Humbert, S. Février, V. Rastogi, M. Pal, S.K. Bhadra	We.A2.2 9:20 Optical wavelet signal processing (Invited) Y. Ben-Ezra, B.I. Lembrikov	We.A3.2 9:20 New generation of optical packet switching network based on multi-colored packets (Invited) N. Wada	We.A4.2 9:20 High-brightness single photon sources based on photonic wires (Invited) J. Claudon, J. Bleuse, M. Bazin, N.S. Malik, P. Jaffrennou, P. Lalanne, N. Gregersen, J.M. Gérard	We.A5.2 9:20 Novel nanophotonic waveguides based on metal, semiconductor or soft glass modified photonic crystal fibers (Invited) M.A. Schmidt, H. Tyagi, H. Lee, P. St.J. Russell
We.A1.3 9:40	Novel design for noise controlled semiconductor optical amplifier (Invited) S. Philippe, F. Surre, K. Carney, R. Lennox, A.L. Bradley, P. Landais	We.A2.3 9:40 Photonic signal processing using arrayed-waveguide gratings (Invited) H. Tsuda	We.A3.3 9:40 All-optical packet switch at data-rate beyond 160 Gb/s (Invited) N. Calabretta, H-D. Jung, E. Tangdiongga, T. Koonen, H. Dorren	We.A4.3 9:40 Whispering-gallery modes in dielectric microspheres for biosensing applications (Invited) P. Borri, J. Lutti, W. Langbein	We.A5.3 9:40 Red fiber ring lasers (Invited) R. Al-Mahrous, R. Caspary, W. Kowalsky
We.A1.4 10:00	Extreme events in fiber based amplifiers K. Hammani, C. Finot, B. Kibler, J.M. Dudley, G. Millot	We.A2.4 10:00 All-optical nonlinear fibre signal processing (Invited) S.K. Turitsyn, S. Boscolo	We.A3.4 10:00 An all-optical grooming switch with regenerative capabilities (Invited) J. Leuthold, R. Bonk, P. Vorreau, S. Sygletos, D. Hillerkuss, W. Freude, G. Zarris, D. Simeonidou, C. Kouloumentas, M. Spyropoulou, I. Tomkos, F. Parmigiani, P. Petropoulos, D.J. Richardson, R. Weerasuriya, S. Ibrahim, A.D. Ellis, C. Meuer, D. Bimberg, R. Morais, P. Monteiro, S. Ben-Ezra, S. Tsadka	We.A4.4 10:00 Periodical patterning of spherical micro-resonator surfaces for nonlinear light generation (Invited) J. Martorell	We.A5.4 10:00 Glass-based erbium activated micro-nano photonic structures (Invited) G. Alombert-Goget, C. Armellini, S. Berneschi, S.N.B. Bhaktha, B. Boulard, A. Chiappini, A. Chiasera, C. Duverger-Arfulso, P. Féron, M. Ferrari, Y. Jestin, L. Minati, A. Monteil, E. Moser, G. Nunzi-Conti, S. Pelli, F. Prudenzano, G.C. Righini, G. Speranza
We.A1.5 10:15	Self-pulsation in Raman fiber amplifiers M.E.V. Pedersen, J.R. Ott, K. Rottwitt	We.A2.5 10:20 Coherent soliton collisions in photorefractive semiconductor InP:Fe for reconfigurable optical communications (Invited) M. Alonzo, C. Dan, D. Wolfersberger, E. Fazio	We.A3.5 10:20 "Light-mess" time division multiplexing for CWDM/DWDM networks (Invited) A. Jüttner, J. Zhang	We.A4.5 10:20 Spectroscopy of coherently coupled whispering gallery modes in supermonodispersive bispheres S. Yang, V.N. Astratov	We.A5.5 10:20 Garnett films as promising materials for RF-absorbance K. Ozga, I. Kityk, A. Slezak
We.A1.6 10:30	Non-white noise generation method for ASE noise simulation in systems with Raman amplification N.J. Muga, M.C. Fugihara, M.F.S. Ferreira, A.N. Pinto			We.A4.6 10:35 Using nanocavity plasmons to improve solar cell efficiency B. Soares, S. Mahajan, A. Campbell, N. Greenham, S. Guldin, S. Huettner, U. Steiner, J. Baumberg	
10:40 - 11:15	Coffee-break	10:40 - 11:15	Coffee-break	10:40 - 11:15	Coffee-break

SESSION We.B1 (11:15 – 12:50) Room: Main Auditorium (A1)		SESSION We.B2 (11:15 – 13:00) Room: North Auditorium (A2)		SESSION We.B3 (11:15 – 12:50) Room: South Auditorium (A3)		SESSION We.B4 (11:15 – 13:00) Room: 8 (A5)		SESSION We.B5 (11:15 – 12:55) Room: 12 (A4)	
SWP WG3 IX Lasers Chair: Jost Adam		ICTON IX Power Issues Chair: Philippe Roy		RONEXT III Survivability Chair: Nina Skorin-Kapov		MPM IV Chair: Jiri Petráček		Novel Glasses II Chair: Angela Seddon	
We.B1.1 11:15	A microscopic approach for THz intersubband challenges (<i>Invited</i>) M.F. Pereira	We.B2.1 11:15	On using all-optical burst-mode power equalization in converged metro-access networks (<i>Invited</i>) S. Pato, P. Monteiro, H. Silva	We.B3.1 11:15	Network performance improvement in survivable WDM networks considering physical layer constraints (<i>Invited</i>) A. Tzanakaki, K. Georgakilas, K. Katrinis, L. Wosinska, A. Jirattigalachote, P. Monti	We.B4.1 11:15	Ultrahigh-Q microcavities in diamond-based photonic crystal slabs (<i>Invited</i>) S. Tomljenovic-Hanic, A.D. Greentree, S. Prawer, C.M. de Sterke	We.B5.1 11:15	Experimental studies of nonlinear properties of chalcogenide glasses (<i>Invited</i>) E. Romanova, A. Afanasiev, V. Shiryaev, G. Snopatin, D. Furniss, A. Seddon, T. Benson, B. Derkowska, S. Guizard, N. Fedorov
We.B1.2 11:35	Single-frequency waveguide lasers and their design S. Taccheo, M. Tahaer, D. Milanese, H. Gebavi, J. Lousteau, G. Della Valle, D. Barbier	We.B2.2 11:35	Power efficiency of 40 Gbit/s and 100 Gbit/s optical Ethernet (<i>Invited</i>) S. Aleksić	We.B3.2 11:35	Survivability in metro WDM storage area networks B. Pranggono, J.M.H. Elmirghani	We.B4.2 11:35	Optical microfibers and microfiber resonators (<i>Invited</i>) M. Sumetsky	We.B5.2 11:35	Chalcogenide glasses and glass-ceramics for novel infrared optical technologies (<i>Invited</i>) X. Zhang, J-L. Adam
We.B1.3 11:50	Above-threshold analysis in an optimized three phase-shift DFB laser structure for stable single-mode operation J.A.P. Morgado, C.A.F. Fernandes, J.B.M. Boavida	We.B2.3 11:55	Performance and power consumption of digital signal processing based transceivers for optical interconnect applications (<i>Invited</i>) M. Glick, Y. Benlachtar, R. Killey	We.B3.3 11:50	Quantifying the benefit of BER-based differentiated path provisioning in WDM optical networks A. Jirattigalachote, K. Katrinis, A. Tzanakaki, L. Wosinska, P. Monti	We.B4.3 11:55	Whispering gallery modes in bottle microresonators (<i>Invited</i>) M.N. Zervas, G. Senthil-Murugan, J.S. Wilkinson	We.B5.3 11:55	Telluride thick films deposited by co-thermal evaporation: Promising materials for far infrared applications (<i>Invited</i>) C. Vigreux, E. Barthélémy, S. Albert, A. Pradel
We.B1.4 12:05	Influence of laser chirp on the performance of 40 Gbit·s ⁻¹ optically compensated directly modulated systems J.A.P. Morgado, A.V.T. Cartaxo	We.B2.4 12:15	Power consumption analysis of optical cross-connect equipment for future large capacity optical networks M. Murakami, K. Oda	We.B3.4 12:05	Experimental investigations on restoration techniques in a wide area Gigabit Ethernet optical test bed based on virtual private LAN service A. Valenti, P. Bolletta, S. Pompei, F. Matera	We.B4.4 12:15	Large electric tuning of WGMs in liquid crystal droplets M. Humar, S. Pajk, I. Mušević	We.B5.4 12:15	High quality erbium doped tellurite glass films using ultrafast laser deposition (<i>Invited</i>) G. Jose, D.P. Steenson, M. Irannejad, A. Jha
We.B1.5 12:20	A novel approach to distributed feedback in liquid crystals D. Donisi, R. Asquini, A. D'Alessandro, G. Assanto	We.B2.5 12:30	Wavelength path optimization in optical transport networks for energy saving A. Silvestri, A. Valenti, S. Pompei, F. Matera, A. Cianfrani	We.B3.5 12:20	Multiple path based regenerator placement algorithm in translucent optical networks N. Sambo, N. Andriolli, A. Giorgetti, P. Castoldi, G. Bottari	We.B4.5 12:30	Simple numerical scheme for modelling of nonlinear pulse propagation in coupled microring resonators A. Sterkhova, J. Petráček, J. Luksch	We.B5.5 12:35	Highly doped Tm ³⁺ tellurite glasses for 2 μm laser source (<i>Invited</i>) J. Lousteau, H. Gebavi, E. Mazzon, D. Negro, M. Merlo, D. Milanese, S. Taccheo, M. Ferraris
We.B1.6 12:35	Temperature dependences of the second order susceptibilities in the novel borate LiCsB ₄ O ₇ single crystal A.H. Reshak, I.V. Kityk	We.B2.6 12:45	Path monitoring for restoration functions in optical packet-switched networks R. Vilar, J. García, Y. Kim, S. LaRochelle, R. Llorente, F. Ramos	We.B3.6 12:35	Cost aware design of translucent WDM transport networks S. Rumley, C. Gaumier	We.B4.6 12:45	Nonlinear coupling of microring resonators and applications A. Ghadi, S. Mirzanezhad, F. Sohbatzadeh		
12:40 - 14:00	Lunch break	12:40 - 14:00	Lunch break	12:40 - 14:00	Lunch break	12:40 - 14:00	Lunch break	12:40 - 14:00	Lunch break
13:45 – 14:15 Poster Exhibition (Session II)									

SESSION We.C1 (14:00 – 15:30) <i>Room: Main Auditorium (A1)</i>	SESSION We.C2 (14:00 – 15:40) <i>Room: North Auditorium (A2)</i>	SESSION We.C3 (14:00 – 15:40) <i>Room: South Auditorium (A3)</i>	SESSION We.C4 (14:00 – 15:40) <i>Room: 8 (A5)</i>	SESSION We.C5 (14:00 – 15:40) <i>Room: 12 (A4)</i>
SWP WG1 II Metamaterials <i>Chair: Tomasz Szoplík</i>	ICTON X Bragg Gratings <i>Chair: Francesca Parmigiani</i>	RONEXT IV <i>Chair: Lena Wosinska</i>	MPM V Modelling <i>Chair: Snjezana Tomljenovic-Hanic</i>	NAON I Quantum Dots <i>Chair: Judy Rorison</i>
We.C1.1 14:00 Field enhancement in a photonic band gap cavity assisted by metal grooves (Invited) <i>V. Marrocco, M.A. Vincenti, G. Calò, M. De Sario, V. Petruzzelli, F. Prudenzano, A. D’Orazio</i>	We.C2.1 14:00 Alternative designs for high power single mode active optical fibers (Invited) <i>P. Roy, M. Devautour, S. Février, L. Lavoute, K. Schuster, J. Kobelke, S. Grimm</i>	We.C3.1 14:00 Interconnection of long-reach PON and backbone networks (Invited) <i>P. Castoldi, F. Paolucci, A. Giorgetti, M. Maier</i>	We.C4.1 14:00 The scope for analytical models of 3D resonators (Invited) <i>T.M. Benson, A. Vukovic, P. Sewell</i>	We.C5.1 14:00 Short pulse generation with 40 GHz passively-mode locked Q-dashed Fabry-Perot laser (Invited) <i>S. Latkowski, R. Maldonado-Basilio, P. Landais</i>
We.C1.2 14:20 Non linear optical properties of nanostructured metallic surfaces (Invited) <i>A. Belardini, M.C. Larciprete, M. Centini, E. Fazio, C. Sibilia, M. Bertolotti, A. Toma, D. Chiappe, C. Boragno, F. Buatier de Mongeot</i>	We.C2.2 14:20 Applications of Fabry-Perot Bragg grating cavities to optical networks (Invited) <i>L. Pellegrino, R. Meleiro, D. Fonseca, R. Morais, P. André, P. Monteiro</i>	We.C3.2 14:20 Design and development of a semantic information modelling framework for a service oriented optical Internet (Invited) <i>C.E. Abosi, R. Nejabati, D. Simeonidou</i>	We.C4.2 14:20 Theoretical investigation of two beams optical ring resonators for new generation photonic sensors (Invited) <i>C. Ciminelli, C.E. Campanella, M.N. Armenise</i>	We.C5.2 14:20 Ultrafast fiber lasers and nonlinear generation of light (Invited) <i>P.J. Almeida, P. Dupriez, J. Clowes, E. Bricchi, M. Rusu, A.B. Grudinin</i>
We.C1.3 14:40 Surface photonic modes propagating at the normal cut of periodic metal planes (Invited) <i>V. Kazakevicius, R. Brazis</i>	We.C2.3 14:40 Beam propagation through straight and bent Bragg waveguides: Numerical simulation (Invited) <i>A. Popov, D. Prokopovich, A. Vinogradov</i>	We.C3.3 14:40 An optical overlay network concept for hard QoS requirements (Invited) <i>R. Forchheimer, L. Wosinska, P. Monti</i>	We.C4.3 14:40 Dynamics and instabilities in series of coupled nonlinear resonators (Invited) <i>B. Maes, M. Fiers, K. Huybrechts, G. Morthier, P. Bienstman</i>	We.C5.3 14:40 External electrical and optical effects in the operation of monolithic mode-locked laser diodes and the potential of nanostructure technologies in reducing these effects (Invited) <i>E. Avrutin, B.M. Russell</i>
We.C1.4 15:00 Enhanced photoluminescence from metals and nanoimprinted photonic crystals <i>V. Reboud, N. Kehagias, M. Striccoli, T. Placido, A. Panniello, M.L. Curri, M. Zelsmann, J.A. Alducin, D. Mecerreyes, S. Newcomb, D. Iacopino, H. Doyle, G. Redmond, C.M. Sotomayor-Torres</i>	We.C2.4 15:00 Wavelength converters based on fiber XPM and fiber Bragg gratings <i>P. Honzatko</i>	We.C3.4 15:00 On the risk of non-compliance with some plausible SLA requirements (Invited) <i>H. Waldman, D.A.A. Mello</i>	We.C4.4 15:00 Study of improved second harmonic generation in double microring resonators (Invited) <i>M. Gandomkar, V. Ahmadi</i>	We.C5.4 15:00 Optical line width in semiconductor quantum dots (Invited) <i>K. Král, M. Menšík</i>
We.C1.5 15:15 Noble metal nanoparticles functionalized with novel organic luminophores <i>E. Giorgetti, G. Dobrikov, D. Ivanova, I. Timtcheva, T. del Rosso, G. Margheri, M. Ferrari, A. Chiappini</i>	We.C2.5 15:15 FBG dispersion compensation in a 43 Gbit/s WDM system: Comparing different FBG types and modulation formats <i>A. Dochhan, S. Smolorz, H. Rohde, W. Rosenkranz</i> We.C2.6 15:30 Effect of group velocity dispersion on all optical encoded labels in optical packet networks <i>D. Pastor, W. Amaya, R. García-Olcina</i>	We.C3.5 15:20 Reliability analysis of optical modules for future optical networks (Invited) <i>R. Chandry</i>	We.C4.5 15:20 Theoretical analysis of microring resonator filters made of plasmonic waveguides (Invited) <i>O.C. Tsilipakos, T.V. Yioultsis, E.E. Kriezis</i>	We.C5.5 15:20 Influence of p-doping in quantum dot semiconductor optical amplifiers at 1.3 μm (Invited) <i>D. Bimberg, C. Meuer, G. Fiol, H. Schmeckeber, D. Arsenijevic, G. Eisenstein</i>
15:30 - 16:10 <i>Coffee-break</i>	15:30 - 16:10 <i>Coffee-break</i>		15:30 - 16:10 <i>Coffee-break</i>	15:30 - 16:10 <i>Coffee-break</i>

SESSION We.D1
(16:10 – 17:10)

Room: Main Auditorium (A1)

SWP WG2 II
Applications

Chair: Branislav Jelenkovic

We.D1.1 Static Fourier-transform waveguide spectrometers **(Invited)**
16:10
A. Delâge, P. Cheben, M. Florjańczyk, S. Janz, B. Lamontagne, J. Lapointe, A. Scott, B. Solheim, D-X. Xu

We.D1.2 Integrated hybrid sol-gel devices for astronomical interferometry **(Invited)**
16:30
P.V.S. Marques, A. Ghasempour, D. Alexandre, F. Reynaud, P.J.V. Garcia, A.M.P Leite

We.D1.3 Photonic crystal heterostructure lasers **(Invited)**
16:50
J. O'Brien, L. Lu, A. Mock, M. Bagheri

SESSION We.D2
(16:10 – 17:50)

Room: North Auditorium (A2)

PICAW

Chair: Stefano Taccheo

We.D2.1 Al₂O₃:Er³⁺ as a new platform for active integrated optics **(Invited)**
16:10
M. Pollnau, J.D.B. Bradley, L. Agazzi, E. Bernhardt, F. Ay, K. Wörhoff, R.M. de Ridder

We.D2.2 New scaling rules for MMI devices **(Invited)**
16:30
L.W. Cahill, T.V. Clapp

We.D2.3 Developing transmission and routing photonic systems using advanced hybrid integration technologies **(Invited)**
16:50
E. Kehayas

We.D2.4 VLSI photonics: Science and engineering of high-density photonic circuit integration in micro/nano-scale **(Invited)**
17:10
E-H. Lee

We.D2.5 Silicon-based integrated multiplexers for WDM systems **(Invited)**
17:30
L. Wosinski, N. Zhu, B. Jaskorzynska

SESSION We.D4
(16:10 – 17:30)

Room: 8 (A5)

ESPC

Chair: Bozena Jaskorzynska

We.D4.1 Light transport and limits of slow light in real photonic crystal structures in the presence of residual disorder **(Invited)**
16:10
N. Le Thomas, J. Jágerská, H. Zhang, R. Houdré

We.D4.2 The structure of light in photonic crystal waveguides **(Invited)**
16:30
D. van Oosten, M. Burrese, R.J.P. Engelen, A. Opheij, D. Mori, T. Baba, L. (Kobus) Kuipers

We.D4.3 Two-dimensional surface emitting photonic crystal laser with hybrid triangular-graphite structure **(Invited)**
16:50
L.J. Martínez, B. Alén, I. Prieto, C. Seassal, P. Viktorovitch, J.F. Galisteo-López, M. Galli, L.C. Andreani, P.A. Postigo

We.D4.4 Modelling of photonic-crystal VCSELs with semi-vectorial and vectorial models **(Invited)**
17:10
M. Dems

SESSION We.D5
(16:10 – 17:25)

Room: 12 (A4)

NAON II
VCSELs

Chair: Wlodzimierz Nakwaski

We.D5.1 Photonic crystal vertical cavity surface emitting lasers (PC-VCSELs) – The future for high power single mode behaviour **(Invited)**
16:10
J.M. Rorison, P. Ivanov

We.D5.2 Circularly-polarized lasing in a (110)-oriented VCSEL with InGaAs/GaAs QWs **(Invited)**
16:30
H. Kawaguchi

We.D5.3 Orthogonally polarized bistable localized light structures in medium size vertical-cavity surface-emitting lasers **(Invited)**
16:50
K. Panajotov, X. Hachair, H. Thienpont, G. Tissoni

We.D5.4 Improvements on corrugation pitch modulated distributed coupling coefficient distributed feedback laser structures for single longitudinal mode operation
17:10
J. Boavida, C. Fernandes, J. Morgado

SESSION Th.A1 (9:00 – 10:25) <i>Room: Main Auditorium (A1)</i>	SESSION Th.A2 (9:00 – 10:05) <i>Room: North Auditorium (A2)</i>	SESSION Th.A3 (9:00 – 10:35) <i>Room: South Auditorium (A3)</i>	SESSION Th.A4 (9:00 – 10:20) <i>Room: 8 (A5)</i>	SESSION Th.A5 (9:00 – 10:20) <i>Room: 12 (A4)</i>
SWP WG1 III <i>Chair: Vladimir Kuzmiak</i>	ICTON XI Systems V <i>Chair: Piero Castoldi</i>	BONE-SARDANA IV OCDMA <i>Chair: Ioannis Tomkos</i>	SWP WG2 III <i>Chair: Maciej Dems</i>	NAON III <i>Chair: Eugene Avrutin</i>
Th.A1.1 9:00 Electrodynamics of periodic arrays of carbon nanotubes (<i>Invited</i>) <i>I. Nefedov</i>	Th.A2.1 9:00 Advanced optical limiting function based on effective understanding of physical phenomena (<i>Invited</i>) <i>T. Konishi, H. Goto, T. Kato, K. Kawanishi</i>	Th.A3.1 9:00 Scalability techniques in electronically processed CDMA for low cost and flexible optical access networks (<i>Invited</i>) <i>J.B. Rosas-Fernandez, J.D. Ingham, R.V. Penty, I.H. White</i>	Th.A4.1 9:00 Planar optical quantum computing: Current status and future challenges (<i>Invited</i>) <i>G. Cincotti</i>	Th.A5.1 9:00 Applications of superstructured fibre Bragg gratings in all optical signal processing (<i>Invited</i>) <i>F. Parmigiani, P. Petropoulos, T.T. Ng, M. Ibsen, D.J. Richardson</i>
Th.A1.2 9:20 Nested structures approach for bulk 3D negative index materials (<i>Invited</i>) <i>A. Andryieuski, R. Malureanu, A.V. Lavrinenko</i>	Th.A2.2 9:20 Performance comparison of spectrally efficient intensity modulated formats in remodulated WDM PON <i>N.B. Pavlović, L.N. Costa, A. Teixeira</i>	Th.A3.2 9:20 Development of OCDMA prototype for a next-generation, bandwidth-symmetric FTTH system (<i>Invited</i>) <i>N. Kataoka</i>	Th.A4.2 9:20 Förster resonant energy transfer in quantum dot structures <i>M. Lunz, L. Bradley, W-Y. Chen, Y.K. Gun'ko</i>	Th.A5.2 9:20 Ultrafast nonlinear optics on a chip: Application to signal processing (<i>Invited</i>) <i>M. Pelusi, T.D. Vo, F. Luan, S.J. Madden, D-Y. Choi, D.A.P. Bulla, B. Luther-Davies, B.J. Eggleton</i>
Th.A1.3 9:40 Resetting of a planar superconducting quantum memory <i>R. Migliore, G. De Simone, M. Guccione, A. Messina</i>	Th.A2.3 9:35 Improvement of DPSK transmission by phase-preserving amplitude regeneration using cascaded nonlinear amplifying loop mirrors <i>C. Stephan, K. Sponzel, G. Onishchukov, B. Schmauss, G. Leuchs</i>	Th.A3.3 9:40 Enhancing optical CDMA (<i>Invited</i>) <i>M.S. Leeson, K. Cui, E.L. Hines</i>	Th.A4.3 9:35 Design and fabrication of Si-based photonic crystal stamps <i>R. Jannesari, I. Bergmair, S. Zamiri, K. Hingerl</i>	Th.A5.3 9:40 Cost efficient pulse source for return-to-zero differential phase shift keyed transmission systems (<i>Invited</i>) <i>P.M. Anandarajah, L.P. Barry</i>
Th.A1.4 9:55 Optimisation of transmission properties and subwavelength imaging of silver-dielectric layered structures operating in the canalization regime <i>A. Pastuszczak, R. Kotyński</i>	Th.A2.4 9:50 40 Gb/s all-optical RZ to NRZ format converter based on SOA and detuned filtering <i>T. Silveira, A. Ferreira, D. Fonseca, A. Teixeira, P. Monteiro</i>	Th.A3.4 10:00 Novel time domain spectral phase encoding/decoding technique for OCDMA application (<i>Invited</i>) <i>X. Wang</i>	Th.A4.4 9:50 Parametric resonance and waves in periodic media <i>A. Popov</i>	Th.A5.4 10:00 Ultrahigh-speed all-optical modulation using intersubband transition quantum well waveguide and its application (<i>Invited</i>) <i>K.S. Abedin</i>
Th.A1.5 10:10 Near-field sounding of multilayered media <i>P.K. Gaikovich</i>		Th.A3.5 10:20 Multi-user application of code scrambling for enhanced optical layer confidentiality <i>V. Sacchieri, S. Di Lucente, P. Teixeira, A. Teixeira, G. Cincotti</i>	Th.A4.5 10:05 Existence and stability of of multihumped femtosecond solitons <i>M. Facão, M.I. Carvalho, D.F. Parker</i>	
10:20- 10:50 <i>Coffee-break</i>	10:20- 10:50 <i>Coffee-break</i>	10:20 - 10: 50 <i>Coffee-break</i>	10:20- 10: 50 <i>Coffee-break</i>	

SESSION Th.B1
(10:50 – 12:20)

Room: Main Auditorium (A1)

SWP WG1 IV
Plasmons

Chair: Hovik Baghdasaryan

Th.B1.1 Dual-polarized plasmonic nano-cables (*Invited*)
A. Soloviev, I. Nefedov, S Tretyakov

Th.B1.2 Surface plasmon resonances in metal nanoparticles (*Invited*)
V. Kuzmiak, V. Kolinsky, K. Zdánský

Th.B1.3 Plasmons on metal layers embedded in dielectric PBG cavity (*Invited*)
V. Marrocco, M.A. Vincenti, M. De Sario, G. Calò, V. Petruzzelli, F. Prudenzano, A. D'Orazio

Th.B1.4 Organic light-emitting diodes as surface plasmon emitters
D.M. Koller, A. Hohenau, H. Ditlbacher, N. Galler, F.R. Aussenegg, A. Leitner, J.R. Krenn, E.J.W. List

Th.B1.5 Bottom-up approach to hybrid metallodielectric materials
A. Klos, M. Gajc, R. Diduszko, D.A. Pawlak

SESSION Th.B2
(10:40 – 11:55)

Room: North Auditorium (A2)

ICTON XII
Devices

Chair: Otto Strobel

Th.B2.1 Effect of bending in SMF fibers under high power
A.M. Rocha, A. Martins, M. Facão, P.S. André

Th.B2.2 On recent progress in all-fibered pulsed optical sources from 20 GHz to 2 THz based on multiple four wave mixing approach
J. Fatome, S. Pitois, C. Fortier, B. Kibler, C. Finot, G. Millot, C. Courde, M. Lintz, E. Samain

Th.B2.3 High repetition frequency, fundamentally mode-locked 111 fs all-fiber erbium laser
M.P. Nikodem, K.M. Abramski

Th.B2.4 Stable four-wavelength ring resonator with hybrid serial-tree configuration for sensing applications
D. Passaro, S. Selleri, M. Fernandez-Vallejo, R.A. Perez-Herrera, C. Elosua-Aguado, C. Bariain, M. Lopez-Amo

Th.B2.5 Fast method for Q factor estimation in delay line demodulated DPSK optical communications systems
N.S. Avlonitis, I. Tomkos

SESSION Th.B3
(11:00 – 12:20)

Room: South Auditorium (A3)

BONE-SARDANA V
PON

Chair: Mark S. Leeson

Th.B3.1 Hybrid ring-tree WDM/TDM-PON optical distribution network (*Invited*)
J. Prat, J. Lazaro, P. Chanclou, R. Soila, P. Velanas, A. Teixeira, G.M. Tosi Beleffi, I. Tomkos, D. Klondis

Th.B3.2 A novel ring architecture of multiple optical private networks over EPON using OCDMA technique
M. Gharaei, S. Cordette, I. Fsaifes, C. Lepers, P. Gallion

Th.B3.3 Ultra-dense, transparent and resilient ring-tree access network using coupler-based remote nodes and homodyne transceivers
J.M. Fàbrega, J. Prat

Th.B3.4 Employing feed-forward downstream cancellation in optical network units for 2.5G/1.25G RSOA-based and 10G/10G REAM-based passive optical networks for efficient wavelength reuse
B. Schrenk, J.A. Lazaro, J. Prat

Th.B3.5 Interleaved polling algorithm with inserted cycles to support service level agreement in long-reach EPONs
T. Jiménez, N. Merayo, R.J. Durán, P. Fernández, R.M. Lorenzo, I. de Miguel, N. Fernández, E.J. Abril

SESSION Th.B4
(10:50 – 12:10)

Room: 8 (A5)

SWP WG2 IV

Chair: Ariel Guerreiro

Th.B4.1 Sub-wavelength nanostructures for engineering the effective index of silicon-on-insulator waveguides (*Invited*)
P. Cheben, J. Schmid, P. Bock, D-X. Xu, S. Janz, A. Delâge, J. Lapointe, B. Lamontagne, A. Densmore, T. Hall

Th.B4.2 III-V photonic crystal lasers heterogeneously bonded to silicon-on-insulator waveguides (*Invited*)
T.J. Karle, Y. Halioua, F. Raineri, I. Sagnes, R. Raj, G. Roelkens, F. van Laere, D. Van Thourhout

Th.B4.3 Heterogeneous integration of III-V on silicon based microlaser sources for photonic integrated circuit applications (*Invited*)
P. Rojo Romeo, L. Ferrier, F. Mandorlo, X. Letartre, P. Viktorovitch, J-M. Fedeli

Th.B4.4 Enhancing light-matter interaction via Bloch surface waves for biosensing applications (*Invited*)
M. Liscidini, M. Galli, M. Patrini, G. Dacarro, L.C. Andreani, D. Bajoni, C. Ricciardi, F. Giorgis, R.W. Loo, M.C. Goh, M. Shi, J.E. Sipe

Closing Ceremony & Announcement of ICTON 2009 (12:20)

Meeting of COST Action MP0702
Towards Functional Sub-Wavelength Photonic Structures

(14:00 – 16: 00)

Room: Main Auditorium (A1)

Working Group Meeting

(16:00 – 18: 00)

Rooms: North Auditorium (A2)/ 12 (A5)/8 (A4)

Management Committee meeting (MC Members exclusively)

19:00 – 24:00 Sunset Dinner (North Coast – AlaBote)

Cultural Program: Live music

POSTER SESSIONS

Tuesday, June 30 - (Session I - Tu.P)

- Tu.P.1 Modeling of nano- and micro-spheres for sensing applications**
F. Prudeniano, L. Mescia, L. Allegretti, M. De Sario, A. Di Tommaso, T. Palmisano, P. Féron, A. Chiappini, M. Ferrari, S. Soria, G.C. Righini
- Tu.P.2 Third order non linear optical properties of ZnO:Al thin films prepared by spray pyrolysis**
K. Bahedi, M. Addou, M. El Jouad, Z. Sofiani, S. Bayoud, M. Bouaouda, B. Sahraoui, Z. Essaïdi
- Tu.P.3 Picosecond characteristics on transient absorption spectra of silver nanoparticles**
A. Gaál, I. Bugár, I. Capek, J. Polovková, V. Szócs, T. Pálszegi, A. Šatka, M. Michalka, F. Uherek
- Tu.P.4 Lasing modes of infinite periodic chain of quantum wires**
V.O. Byelobrov, T.M. Benson, P. Sewell, A. Altintas, A.I. Nosich
- Tu.P.5 Nyström-method analysis of active spiral subwavelength 2-D microresonators**
E.I. Smotrova, T.M. Benson, P. Sewell, J. Ctyroky, A.I. Nosich
- Tu.P.6 Single frequency, widely tuneable green microchip laser**
J.Z. Sotor, A.J. Antończak, K.M. Abramski
- Tu.P.7 Micro demultiplexer fabricated by self-assembly of microspheres on a patterned substrate**
T. Mitsui, Y. Wakayama, T. Onodera, Y. Takaya, H. Oikawa
- Tu.P.8 Responsivity analysis of a resonant cavity QDIP at 10 μm wavelength**
A. Mir-Derikvandi, V. Ahmadi
- Tu.P.9 Accurately calculating high Q factor of whispering-gallery modes with boundary element method**
C-L. Zou, Y. Yang, C-H. Dong, Y-F. Xiao, Z-F. Han, G-C. Guo
- Tu.P.10 Interference of guiding polariton modes in "traffic" circle waveguides**
M. Gozman, I. Polishchuk, T. Lomonosova
- Tu.P.11 Analysis of optical reflector based on circular coupled microring resonators**
Z. Gao, X. Wang
- Tu.P.12 Splitting of whispering gallery modes by nanoparticles embedded in high Q microcavities**
K.R. Hiremath, V.N. Astratov
- Tu.P.13 Analysis of excitation of higher-order transverse modes in large-size oxide-confined VCSELs**
M. Kuc, R.P. Sarzała, W. Nakwaski
- Tu.P.14 Comparative analysis of various methods to reach the 1.3 μm emission in GaInNAs/GaAs QW VCSELs**
K. Marszałek, R.P. Sarzała, W. Nakwaski
- Tu.P.15 Modelling of inline optical reflectors based on microring resonators**
J. Petráček, J. Luksch, A. Sterkhova
- Tu.P.16 Evolution of emission mechanism in deformed microcavities**
S-B. Lee, J. Yang, S-Y. Lee, S. Moon, J.-B. Shim, S.W. Kim, J-H. Lee, K. An
- Tu.P.17 Free-space resonant coupling in a highly deformed microcavity**
J. Yang, S-B. Lee, S. Moon, S-Y. Lee, J-B. Shim, S.W. Kim, J-H. Lee, K. An
- Tu.P.18 Observation of scar modes in a deformed ultrasonic cavity**
H. Kwak, Y. Shin, S-B. Lee, J. Yang, S. Moon, S-Y. Lee, S.W. Kim, J-H. Lee, K. An
- Tu.P.19 New cyclopropano[70] fullerene derivatives for the photovoltaic application**
H. Derbal, C. Bergeret, J. Cousseau, J-M. Nunzi
- Tu.P.20 Second harmonic generation in planar two-dimensional photonic crystals without out-of-plane losses**
C. Nistor, C. Cojocaru, Y. Loiko, J. Trull, K. Staliunas
- Tu.P.21 Alignment and FLIM imaging of Ag nanowires with CdTe quantum dots**
C.A. Smyth, Y.P. Rakovich, E.M. McCabe
- Tu.P.22 Modelling the response of whispering-gallery-mode optical resonators for biosensing applications**
W. Langbein, L. Chantada, N.I. Nikolaev, A. Ivanov, P. Borri
- Tu.P.23 Fabrication and characterization of Er-doped silicon-rich oxide toroidal microcavities on chip**
J.B. Jager, P. Noé, E. Picard, E. Delamadeleine, V. Calvo

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- We.P.1 A novel bidirectional RSOA based WDM-PON with downstream DPSK and upstream re-modulated OOK data**
J. Zhang, X. Yuan, Y. Gu, Y. Huang, M. Zhang, Y. Zhang
- We.P.2 Scaling guidelines of a soliton-based power limiter for 2R-optical regeneration applications**
J. Fatome, C. Finot
- We.P.3 Low-coherence interferometry for measuring polarization mode dispersion**
L.M.N. Amaral, D.A. Pereira, O. Frazão, M.B. Marques, M.J.N. Lima, A.L.J. Teixeira
- We.P.4 Optimization of WDM communication system using a binomial power distribution**
M. Lazoul, L.M. Simohamed
- We.P.5 Comparative evaluation of fibre-optic architectures for next-generation distributed antenna systems**
S. Pato, J. Pedro, P. Monteiro
- We.P.6 An ant-based algorithm for distributed RWA in optical burst switching**
J. Triay, C. Cervelló-Pastor
- We.P.7 Gaussian approximation analysis of ZCC code for multimedia optical CDMA applications**
I. Bala, V. Rana
- We.P.8 Entanglement dynamics in a spin star system**
E. Ferraro, A. Napoli, A. Messina
- We.P.9 InGaAs quantum dot 1050 nm saturable absorber mirror: Investigation under high excitation condition**
E. Jelமாகas, R. Tomasiunas, K. Wilcox, E. Rafailov, I. Krestnikov
- We.P.10 Feature based recognition of photonic devices in images obtained by confocal scanning laser microscopy**
S.G. Stanciu, R. Hristu, R. Boriga, G. Stanciu
- We.P.11 Synthesis of sub-wavelength diffractive optical elements by 3D full-vectorial beam propagation method**
R. Petruskevicius, D. Kezys, M. Mikolajunas, V. Grigaliunas, J. Baltrusaitis, D. Virzonis
- We.P.12 Diagnostic and characterization of the VCSEL diodes based on GaSb**
J. Cihelka, I. Matulková, J. Vyskočil, Z. Zelinger, S. Civiš
- We.P.13 Repetition rate multiplication in eight microstructured optical fiber laser**
T. Ennejah, F. Bahloul, R. Attia
- We.P.14 Supercontinuum generation in dual core photonic crystal fibre**
M. Koyš, I. Bugár, R. Buczynski, D. Pysz, M. Michalka, F. Uherek
- We.P.15 Waveguiding properties of photonic crystal fiber**
Y.A. Mazhirina, L.A. Melnikov
- We.P.16 Femtosecond soliton supercontinuum generation in anisotropic microstructure fiber**
Y. Mazhirina, L. Melnikov, A. Konukhov
- We.P.17 Stability analysis of Raman propagation equations**
B. Neto, M.M. Rodrigues, E.A. Rocha, P.S. André
- We.P.18 Narrow asymmetric waveguide semiconductor lasers with improved temperature wavelength stability for pumping and nonlinear applications**
B. Ryvkin, E. Avrutin
- We.P.19 Modelling of frequency stabilization of diode laser based on 3rd, 5th and 7th harmonic method**
A. Grobelny, A. Wąż
- We.P.20 Interference aspects of terahertz transmission**
P. Jarzab, J.S. Witkowski, K. Nowak, G. Beziuk, A. Grobelny, R. Wilk, M. Mikulics, E.F. Plinski
- We.P.21 Design of a wavelength control for coherent detection of high order modulation formats**
J.M. Fabrega, J. Prat, L. Molle, R. Freund