

ICTON 2007 Preliminary Technical Programme

Plenary Session (Monday, 9:30 – 10:30)

1	Y-H. Lee, I-K. Hwang, S-H. Kim	Photon funneling from ultrasmall photonic crystal lasers near communications wavelength
2	F. Callegati, L. Wosinska, M. Tornatore, F. Cugini	Research in optical transport networks: the e-Photon/ONe+ experience
3	A.E. Willner	Challenges in stable, high-capacity optical communication networks

ICTON I (Monday, 11:00 – 13:00)

1	P. Poggiolini, G. Bosco, M. Visintin, P. Bayvel, R. Killely, S. Savory, Y. Benlachtar, J. Prat, M. Omella	Recent progress and fundamental limitations of optical MLSE receivers
2	W. Rosenkranz, J. Leibrich, M. Serbay, A. Ali	Orthogonal frequency division multiplexing (OFDM) and other advanced options to achieve 100Gb/s Ethernet transmission
3	A. Cartaxo, D. Fonseca, P. Monteiro	Modulation formats for upgrading MANs to 40 Gb/s per channel
4	P.M.P. Monteiro, M.A.M. Madureira, D. Fonseca, R.L. Aguiar, A.V.T. Cartaxo, R. Sousa, M. Violas	Optical channel impairments mitigation on 40 Gb/s systems resorting to post-detection adjustable electrical compensation
5	M. Forzati	Phase modulation techniques for on-off keying transmission
6	S. Sauge, M. Swillo, S. Albert-Seifried, G.B. Xavier, J. Waldeback, M. Tengner, D. Ljunggren, Q. Wang, A. Karlsson	Quantum communication in optical networks: an overview and selected recent results

ESPC I (Monday, 11:00 – 13:20)

1	J. O'Brien	LEOS Distinguished Lecture on: Photonic Crystal Devices
2	S. Tomljenovic-Hanic, C.C. Martijn, C.M. de Sterke, M.J. Steel	High-Q cavities in photonic crystal slab heterostructures formed by variation in the refractive index
3	F. Raineri, G. Vecchi, T. Karle, A. Giacomotti, A. Levenson, R. Raj	Pulsed and continuous-wave operation of photonic band-edge lasers near 1.55 μm on silicon wafer
4	D. Gerace, L.C. Andreani, M. Belotti, M. Galli, M. Patrini, A. Politi, M. Liscidini, A. Canino, A. Irrera, R. Lo Savio, M. Miritello, F. Priolo, Y. Chen	Enhanced light emission in active silicon-on-insulator photonic crystal slabs and slot waveguides
5	N. Le Thomas, R. Houdré, M.V. Kotlyar, L. O'Faolain, T.F. Krauss, L.H. Frandsen, J. Fage-Pedersen, A.V. Lavrinenko, P.I. Borel	High numerical aperture real and Fourier space investigation of planar photonic devices operating below the light cone
6	Y. Sasaki, H. Yokota	Recent progress in research on photonic crystal fiber couplers
7	P. Debernardi, B. Kögel, P. Meissner, G. Böhm, M-C. Amann	Theoretical vs. experimental results of 1.55 MEMS-VCSELs

WAOR I (Monday, 11:00 – 12:40)

1	P. Pedroso, J. Solé-Pareta, D. Careglio, M. Klinkowski	Integrating GMPLS in the OBS networks control plane
2	N. Naas, H.T. Mouftah	Cost-effective heuristics for planning GMPLS transport networks with conversion and regeneration capabilities
3	P. Castoldi, N. Andriolli, I. Cerutti, N. Sambo, L. Valcarengi, A. Giorgetti, F. Cugini, S. Ruepp, J. Buron	A framework of label preference in GMPLS controlled optical networks
4	S. Spadaro, J. Perelló, E. Escalona, L. Velasco, F. Agraz, J. Comellas, G. Junyent	The CARISMA ASON/GMPLS network: overview and open issues
5	F. Callegati, W. Cerroni, D. Vigo	Optimization of wavelength allocation in GMPLS-based optical packet-switched networks

ICTON II (Monday, 14:30 – 16:30)

1	A. Ehrhardt, D. Breuer, D. Fritzsche, S. Vorbeck, M. Schneiders, W. Weiershausen, R. Leppla, C. Fürst, J.P. Elbers, M. Camera, H. Wernz, H. Griesser, S. Herbst, F. Cavaliere, J. Wendler, M. Schrödel, T. Wuth, C. Fludger, T. Duthel, B. Milivojevic, C. Schulien	Field trial to upgrade an existing 10 Gbit/s DWDM link with 40 Gbit/s RZ-DQPSK channels
2	A. Girard, D. Kallgren, M. Söderberg	40G and higher what is waiting for us ahead?
3	I.H. White, J.D. Ingham, R.V. Penty	High speed technologies for MMF systems
4	M. Suzuki, Y. Horiuchi, M. Hayashi, T. Otani	Optical network for high-quality broadband services
5	P.O. Hedekvist, R. Emardson, S-Ch. Ebenhag, K. Jaldehag	Utilizing an active fiber optic communication network for accurate time distribution
6	R. Gindera, I. Möllers, M. Bülters, D. Kalinowski, D. Jäger	Recent developments in polymer optical fiber (POF) transceivers

NAON I (Monday, 14:50 – 16:50)

1	H. Kawaguchi	Optical buffer memory with a shift register function using polarization bistable VCSELs
2	A. Scirè, A. Pérez, T. Pérez, G. Van der Sande, P. Colet, C.R. Mirasso, S. Balle	Bistability and all-optical switching in semiconductor ring lasers
3	T. Konishi	Optical signal processing promoted by optical data form conversion
4	G. Giuliani, F. Bragheri, M. Sorel, S. Furst, A. Scirè, J. Danckaert, S. Yu	Optically addressable bistable memory based on semiconductor ring lasers: experimental results
5	A. Hurtado, M.J. Adams, I.D. Henning	Optical bistability and nonlinear switching in 1550 nm VCISOAs
6	K. Asakawa	PC-SMZ-based all-optical flip-flop switch: PC-FF

WAOR II (Monday, 14:10 – 15:30)

1	G. Markidis, A. Tzanakaki, N. Ciulli, G. Carozzo, D. Simeonidou, R. Nejabati, G. Zervas	EU Integrated Project PHOSPHORUS: Grid-GMPLS control plane for the support of grid network services
2	E. Marín, S. Sanchez, X. Masip, J. Solé, G. Maier, W. Erangoli, S. Santoni, M. Quagliotti	Applying prediction concepts to routing on semi-transparent optical transport networks
3	H. Waldman, D.R. Campelo	Resource blocking and usage in optical networks
4	N. Wada, H. Furukawa, T. Miyazaki	Ultra-high speed optical packet switching system and related technologies

GRAAL (Monday, 17:00 – 19:00)

1	M. Shalom, P.W.H. Wong, S. Zaks	Optimal on-line colorings for minimizing the number of ADMs in optical networks
2	A. Tomaszewski, M. Pióro, M. Dzida, M. Mycek, M. Zagożdżon	Valid inequalities for a shortest-path routing optimization problem
3	T. Cinkler, P. Hegyi, G. Geleji, J. Szigeti	Fairness issues of AMLTE: adaptive multi-layer traffic engineering with grooming
4	G. Danilewicz, W. Kabaciński, M. Michalski, M. Żal	Control algorithm for multi-plane photonic banyan-type switching fabric with and without first order crosstalk
5	J.L. Marzo, L. Caro, F. Solano, J.C. de Oliveira, R. Fabregat	Operational cost reduction in WDM networks using lighttours
6	A. Jüttner, T. Cinkler, B. Dezso	A randomized cost smoothing approach for optical network design

NAON II (Monday, 17:20 – 19:00)

1	M. Sciamanna, I. Gatara, A. Locquet, K. Panajotov	Polarization synchronization properties of unidirectionally coupled VCSELs
2	T. Czyszanowski, R.P. Sarzala, M. Dems, H. Thienpont, K. Panajotov	Optimal designs of telecommunication oriented photonic-crystal VCSELs
3	L. Spiekman, D. Piehler, P. Iannone, K. Reichmann, H-H. Lee	Semiconductor optical amplifiers for FTTx
4	A. Fiore, F. Marsili, D. Bitauld, C. Zinoni, A. Gaggero, R. Leoni, F. Mattioli	Single-photonics at telecom wavelengths using superconducting nanostructured detectors
5	J.M. Rorison, J. Pozo, N. Vogiatzis, Y.N. Qiu, P. Tuomisto, J. Konttinen, M. Saarinen, C. Peng, J. Viheriälä, T. Leinonen, M. Pessa	QDot and GaInNAs/GaAs broadband semiconductor optical amplifiers for simultaneous multiwavelength amplification

Special Session: Microresonators I (Monday, 16:00 – 18:00)

1	T. Harayama, T. Fukushima	Theory and applications of 2D microcavity lasers
2	A.D. Stone, H.E. Türeci, L. Ge, S. Rotter	Theory of the spatial structure of non-linear modes in novel and complex laser cavities
3	A.B. Matsko, A.A. Savchenkov, D. Strekalov, V.S. Ilchenko, N. Yu, L. Maleki	Fabrication, characterization, and applications of crystalline whispering gallery mode resonators

4	C. Schmidt, O. Egorov, A. Chipouline, T. Pertsch, F. Lederer, A. Tünnermann, L. Deych	Nonlinear effects due to thermo-optical instability in microsphere resonators
5	A. Rastelli, S. Kiravittaya, M Benyoucef, Y. Mei, O.G. Schmidt	In situ tuning of optical modes in single semiconductor microcavities by laser heating
6	Q. Song, S. Xiao, X. Zhou, L. Liu, L. Xu, Y. Wu, Z. Wang	Tunable high-Q directional random laser from a planar random microcavity
7	A.I. Nosich, E.I. Smotrova, P. Sewell, T.M. Benson	Lasing in open microcavities with active regions as a linear electromagnetic eigenproblem

Poster Session 1: Systems (Monday, during breaks between sessions)

1	V. Sacchieri, V. De Sanctis, N. Corsi, F. Curti, M. Guglielmucci, G. Tosi Beleffi, D. Forin, G. Cincotti	DWDM transparent FSO system for in/outdoor applications at high bit rates
2	R. Klinda, V. Bartoss, M. Csörnyei, T. Bánky, T. Bercei	General purpose combined optical-wireless ZigBee sensor networks
3	H-C. Kwon, Y-Y. Won, D-W. Lee, S-K. Han	WDM passive optical network with simultaneous wireline/wireless downlink transmission and wavelength reuse for uplink connection
4	W-P. Lin, H.H. Chien	Generation of ultrawideband pulses using a distributed fiber-link system
5	F. Matera, L. Rea, M. Venezia, L. Capanna, G. Pierri, G. Del Prete	Fast Ethernet restoration based on alternative wavelength paths
6	C. Okonkwo, R. Martin, M.P. Ferrera, K. Guild, M. O'Mahony, J. Everett	Demonstration of an application-aware resilience mechanism for dynamic heterogeneous networks
7	D. Laidevant, F. Rambach, M. Hoffmann	Availability of connections in Ethernet over DWDM core networks
8	N. Merayo, R.J. Durán, P. Fernández, I. de Miguel, J.C. Aguado, R.M. Lorenzo, E.J. Abri	Interleaved polling algorithm with service level agreement (SLA) to improve QoS in Ethernet PONs
9	S. Pompei, L. Rea, C. Zema, F. Matera, G. Pierri, E. Binnella, R. Iacchetti	Quality of service investigation on high definition IPTV services in a multivendor optical network with ADSL access
10	G. Budzyń, G. Lis, E. Bereś-Pawlik	Methods of building ethernet-type passive optical networks
11	G. Lis, G. Budzyń, T. Duchiewicz, E. Bereś-Pawlik	Comparison of bandwidth and bit error rate of passive multimode networks
12	E. Bravi, D. Cotter	Optical interconnect for next-generation supercomputers based on wavelength division multiplexed clockwork routing
13	M. Jaworski, M. Chochół	Split-step-fourier-method in modeling wavelength-division-multiplexed links
14	M. Jaworski, M. Marciniak	Accurate PMD measurements using OSA and polarisation scrambling
15	H.A. Pereira, D.A.R. Chaves, C.J.A. Bastos-Filho, J.F. Martins-Filho	Noise penalties modeling for the performance evaluation of all-optical networks
16	I. Papagiannakis, C. Xia, D. Klondis, W. Rosenkranz,, A.N. Birbas, I. Tomkos	Study of the electronic dispersion compensation for 2.5 and 10 Gb/s transient and adiabatic chirped directly modulated lasers

17	R. Luís, B. Clouet, A. Teixeira, P. Monteiro	Analytical modeling of the cross-phase modulation-induced degradation in mixed DPSK and ASK transmission systems
18	S. Pato, P. Monteiro, H. Silva	Impact of mode-partition noise in the performance of 10 Gbit/s Ethernet passive optical networks
19	J. Vojtech, M. Karasek, J. Radil	Comparison of an unconventional all-optical chromatic dispersion compensation techniques in nothing in line scenarios with emphasis to tuneability
20	N. Genay, T. Soret, P. Chancelou, B. Landousies, L. Guillo, F. Saliou	Evaluation of the budget extension of a GPON by EDFA amplification
21	R. Roy, G. Manhoudt, W. van Etten	Bandwidth re-distribution techniques for extended EPON based multi-wavelength networks
22	C. Arellano, V. Polo, J. Prat	Effect of the multiplexer position in Rayleigh-limited WDM-PONs with amplified-reflective ONU
23	B. Pranggono, R. Mehmood, J.M.H. Elmirghani	Data mirroring for metro WDM storage area networks
24	K. Aziz, S. Sarwar, S. Aleksić	Analytical model for performance evaluation of a novel optical packet/burst switch
25	R.J. Durán, I. de Miguel, N. Merayo, P. Fernández, J.C. Aguado, R.M. Lorenzo, E.J. Abril	Multiobjective genetic algorithm to design cost-efficient wavelength-routed optical networks
26	A.G. Fayoumi	Delay performance evaluation of shared-buffer based all-optical multihop networks
27	N. Sengezer, B. Puype, E. Karasan, M. Pickavet	A comparative study of single-layer and multi-layer traffic engineering approaches on transparent optical networks
28	J.S. Vardakas, V.G. Vassilakis, M.D. Logothetis	Calculating blocking probabilities in single-hop WDM traffic groomed optical networks
29	A. Pantaleo, M. Tornatore, A. Pattavina, C. Raffaelli, F. Callegati	Considerations on in-band and out-of-band signalling constraints in OBS networks
30	C. Meusburger, D.A. Schupke	Method to ensure a feasible wavelength assignment within the routing-only problem for transparent WDM networks

ICTON III (Tuesday, 8:30 – 10:30)

1	T. Alves, N. Costa, A. Cartaxo	Dependence of XPM degradation on the dispersion map for 10 Gbit/s WDM links over standard-fibre employing duobinary format
2	A. Ferreira, T. Silveira, P. Monteiro, R. Ribeiro	40 Gb/s optical single sideband DWDM transmission system using polar return-to-zero signalling format
3	J.M. Fàbrega, J. Prat	Channel crosstalk in ultra-dense WDM PON using time-switched phase diversity optical homodyne reception
4	G. Manzacca, F. Benedetto, V. Sacchieri, G. Giunta, G. Cincotti	Advanced modulation formats in optical code division multiple access networks
5	K.J. Dexter, P.J. Maguire, L.P. Barry	Reduction of multiple access interference in OCDMA systems using a semiconductor based TPA device
6	X Song, I. Koukoumidis, E.A. Avrutin	Integrated packet-level all-optical clock recovery scheme based on a resonator and a quantum dot optical amplifier
7	M. Spyropoulou, S. Sygletos, I. Tomkos	Investigation of multi-wavelength regeneration employing quantum-dot semiconductor optical amplifiers beyond 40Gb/s
8	J.F. Pina, H.J.A. da Silva, P.N. Monteiro, J. Wang, W. Freude, J. Leuthold	Cross-gain modulation-based 2R regenerator using quantum-dot semiconductor optical amplifiers at 160 Gbit/s

ESPC II (Tuesday, 8:30 – 10:25)

1	N.P. Johnson, A.Z. Khokhar, B. Lahiri, S. McMeekin, R.M. De La Rue, C. Debus, P. Haring Bolivar	Recent advances in photonic crystals and metamaterials
2	R. Brazis, V. Kazakevičius, R. Narkowicz	Metamaterials for microwave photonics
3	M. Kafesaki, E.N. Economou, N. Katsarakis, I. Tsiapa, T. Gundogdu, C.M. Soukoulis, T. Koschny	Left-handed materials in microwave and infrared frequencies
4	M. Bergmair, K. Hingerl	Band structure and coupled surface plasmons in one dimensional, frequency dependent photonic crystals
5	J. Martorell, X. Vidal, M. Maymó, S. Di Finizio, J.L. Domínguez-Juárez, M. Botey, G. Kozyreff, P. Kappe	Nonlinear NanoOptics
6	A.S. Desyatnikov, Yu.S. Kivshar, V.S. Shchesnovich, S.B. Cavalcanti, J.M. Hickmann	Zener tunnelling in periodic two-dimensional photonic lattices with three-fold symmetry

Special Session: Microresonators II (Tuesday, 8:30 – 10:30)

1	V.N. Astratov, S.P. Ashili, S. Yang	Optical transport phenomena in coupled spherical cavities
2	A.L. Burin, G.S. Blaustein, O.M. Samoylova	Bound whispering gallery modes in circular arrays of dielectric spherical particles
3	F. Morichetti, C. Ferrari, A. Melloni,	Enhanced frequency shift in optical slow-wave structures
4	L.I. Deych, C. Schmidt, A. Chipouline, T. Pertsch, A. Tünnermann	Coupling of the fundamental whispering gallery mode in bi-spheres
5	M. Gerlach, Y.P. Rakovich, J.F. Donegan	Mode splitting induced by radiation pressure in a spherical microcavity
6	Y-D. Yang, Y-Z. Huang, Q. Chen	Investigation of vertical radiation loss for whispering-gallery modes in 3-D microresonators by FDTD simulation
7	S.W. Kim, J-B. Shim, S-B. Lee, J. Yang, S. Moon, J-H. Lee, K. An, H-W. Lee	What determines the direction of far-field emission in chaotic microcavities?

Special Session: Industrial I (Tuesday, 8:30 – 10:50)

1	F. Docchio, G. Sansoni	University-industry synergies in photonics and optoelectronics: the case of Brescia
2	M. Glick, P. Watts, R. Waagemans, P. Bayvel, R.I. Killey	Electronic signal processing to improve system performance of optical interconnects
3	O. Rozen, T. Cohen, G. Kats, D. Sadot, A. Levy, U. Mahlab	Dispersion compensation in non-linear self phase modulation (SPM) and cross phase modulation (XPM) induced optical channel using vectorial MLSE equalizer
4	A. Borghesani	Optoelectronic components for WDM-PON
5	Y. Ben-Ezra, U. Mahlab, B.I. Lembrikov, V. Vulfin	Analysis and identification of fast transients in optical networks
6	C. Mazzali	Next generation optical fibers: challenges and opportunities
7	N. Genay, P. Chancelou, F. Saliou, Q. Liu, T. Soret, L. Guillo	Solutions for budget increase for the next generation optical access network

ICTON IV (Tuesday, 11:00 – 13:00)

1	X. Wang, N. Wada, T. Hamanaka, T. Miyazaki, G. Cincotti, K. Kitayama	OCDMA over WDM transmission
2	C. Michie, R. Atkinson, I. Andonovic, P. Barry, I. Glesk, P. Prucnal, K. Sasaki, G. Gupta	Interferometric noise characterisation of a 2-D time spreading wavelength hopping OCDMA networks using FBG encoding/decoding
3	F. Uherek, J. Chovan	2-D wavelength-time optical CDMA system – experiment and simulation
4	A.M.J. Koonen, M. Garcia Larrode, J. Yang, P.J. Urban, H. Yang, A. Ng'oma, G.J. Rijckenberg, H.P.A. van den Boom	Advanced technologies for service-integrated optical in-building networks
5	M.N. Pimenta, I. Darwazeh	System and circuit design for time-wavelength optical CDMA networks
6	N. Gupta, D.M. Saxena	Performance comparison of high speed LAN optical CDMA systems at different data rates

ESPC III (Tuesday, 10:55 – 12:35)

1	R. Pregla	Analysis of complex photonic structures
2	S.F. Helfert	Introducing oblique coordinates in numerical methods, applied to the computation of band structures
3	A. Popov, D. Prokopovich, A. Vinogradov	Analytical approach to Bragg fiber design: scalar approximation
4	L. Pajewski, G. Schettini	Photonic band-gap structures with periodicity interruptions: theory and applications
5	M. Svaluto-Moreolo, G. Manzacca, G. Cincotti	Coupling phenomena in 2D photonic crystal structures

WAOR III (Tuesday, 11:00 – 12:45)

1	S. Gunreben	Multi-layer analysis to quantify the impact of optical burst reordering on TCP performance
2	J.N.T. Sanghavi, H. Elbiaze, M.F. Zhani	Adaptive burst assembly mechanism for OBS networks using control channel availability
3	J.P. Gelpke, M. Schlosser, E. Patzak, H. Buchta	Assessment of TCP performance in OBS networks with load dependent contention
4	M. Guerreiro, N.S. Correia, M.C.R. Medeiros	Evaluation and comparison of signaling reservation protocols for grid over OBS networks employing active routers
5	M. Klinkowski, D. Careglio, J. Solé-Pareta	Modelling of control plane in OBS networks
6	J. Pedro, J. Castro, P. Monteiro, J. Pires	On fully exploiting the space domain for contention resolution/avoidance in optical burst-switched networks
7	I. Szcześniak, T. Czachórski	Performance evaluation of a bufferless packet-switched node

Special Session: Industrial II (Tuesday, 11:20 – 13:40)

1	Z. Kądziałski	Multimedia as a driving force for new optical infrastructure
2	A. Ehrhardt	Next generation optical networks and new services: an operator's point of view
3	I. Tomkos	Dynamically reconfigurable transparent optical networking based on cross-layer optimization
4	Y. Ben-Ezra, U. Mahlab, M. Haridim, B.I. Lembrikov	Applications of all-optical signal processing in modern optical communications
5	S. Bigo	Coherent detection: a key enabler for next-generation optical transmission systems?

6	S. Abrate, R. Gaudino	Paving the optical future with affordable lightning-fast links
7	D. Payne, R. Davey, A. Lord	Evolving optical networks to reduce total cost of ownership

ICTON V (Tuesday, 14:30 – 16:25)

1	I. Tomkos, C. Kouloumentas, S. Tsolakidis	Performance studies of multi-wavelength all-optical 2R regeneration subsystems based on highly non-linear fibers
2	P.S. André, A.N. Pinto, A.L.J. Teixeira, B. Neto, S. Junior, D. Spertti, F. da Rocha, M. Bernardo, M. Fujiwara, A. Rocha, M. Facão	Raman amplification using incoherent pump sources
3	D.M. Forin, F. Curti, G.M. Tosi Belleffi, S. Taccheo, K. Ennser, M. Karasek, A.L.J. Teixeira	Performance evaluation of an all-optical wavelength converter TDM demux based on induced modulation on an auxiliary carrier by means of super-continuum generation
4	M. Karasek, J. Vojtech, J. Radil	Power transients in a cascade of three distributed Raman fibre amplifiers transmitting 10x10 GE channels over 383 km
5	G. Incerti, A. Teixeira, G.M. Tosi Belleffi, F. Curti, M. Guglielmucci	All optical multichannel regeneration systems based on non linear effects
6	N.M.S. Costa, T.M.F. Alves, A.V.T. Cartaxo	Influence of dispersion compensation granularity on the XPM-induced degradation in NRZ-IM-DD WDM links at 10 Gbit/s per channel with 50 GHz of channel spacing

NAON III (Tuesday, 14:05 – 15:45)

1	P. Cheben, A. Delâge, A. Densmore, M. Florjanczyk, S. Janz, B. Lamontagne, J. Lapointe, E. Post, I. Powell, J. Schmid, P. Waldron, D.X. Xu	Silicon photonic arrayed waveguide devices and sub-wavelength structures
2	E. Giorgetti	Nanostructured metal-dielectric interfaces for photonic applications
3	J. Azaña, R. Slavík, Y. Park, M. Kulishov	Ultrafast all-optical differentiators based on fiber gratings
4	D. Wolfersberger, C. Dan, N. Khelifaoui, N. Fressengeas, H. Leblond	Fast self-focusing of light in a photorefractive semiconductor for reconfigurable optical communications
5	J. Van Erps, C. Debaes, M. Vervaeke, H. Ottevaere, P. Vynck, V. Gomez, L. Desmet, S. Van Overmeire, A. Hermanne, H. Thienpont	Low-cost micro-optical modules for datacommunication to optical interconnections from the LAN- to the PCB-level

RONEXT I (Tuesday, 14:15 – 16:15)

1	L. Wosinska, J.J. Chen	Reliability performance of passive optical networks
2	C. Mas Machuca, O. Moe	Impact of protection on the cost of Ethernet services on different optical network platforms
3	P. Castoldi, F. Cugini, P. Ghelfi, L. Valcarenghi, G. Franzl, P. Gravey, M. Morvan, L. Rea, F. Matera, K. Wajda	Design of reliable Metro core networks
4	C. Pinart, E. Le Rouzic, I. Martínez	Physical-layer considerations for the realistic deployment of impairment-aware connection provisioning
5	T. Cinkler, J. Szigeti, L. Gyarmati	Multi-domain resilience: can I share protection resources with my competitors?

6	L. Valcarengi, R. Inkret, B. Mikac, A. Pattavina, M. Tornatore, M. Pickavet, K. Wajda, L. Wosinska	Which resilience for the optical internet? An e-Photon/ONE+ outlook
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ICTON VI (Tuesday, 16:55 – 18:45)

1	B. Goebel, M. Kuschnerov, N. Hanik	On the effect of polarisation-mode dispersion on the channel capacity of coherent fibre-optic communication systems
2	A. Galtarossa, M. Guglielmucci, L. Palmieri, L. Schenato	Unusual polarization properties of single-mode randomly birefringent spun fibers
3	M. Ferrario, S.M. Pietralunga	Local birefringence in optical fibers for low-PMD performances
4	C. Raffaelli, L. Wosinska, N. Andriolli, F. Callegati, P. Castoldi, W. Kabaciński, G. Maier, A. Pattavina, L. Valcarengi	Photonics in switching in NoE e-Photon/One+
5	I.B. Djordjevic, M. Cvijetic, L. Xu, T. Wang	Ultra high-speed optical transmission based on LDPC-coded modulation and coherent detection for employment in all-optical network scenario
6	K. Yuksel, S. Letheux, A. Grillet, M. Wuilpart, D. Giannone, J. Hancq, G. Ravet, P. Mégret	Centralised optical monitoring of tree-structured passive optical networks using a Raman-assisted OTDR

NAON IV (Tuesday, 16:15 – 18:15)

1	H.T. Hattori, I. Mc Kerracher, H.H. Tan, C. Jagadish	Micro-lasers for future generation of optical systems
2	R. Kaiser, B. Hüttl	InP-based monolithic mode-locked 40 GHz lasers for high-speed transmission systems utilizing phase modulation formats
3	F. Kéfélian, J.P. Tournenc, M.T. Todaro, S. O'Donoghue, S.P. Hegarty, G. Huyet, J.G. McInerney	Timing jitter in compact passively mode-locked quantum-dot lasers
4	R. Phelan, W.H. Guo, Q.Y. Lu, D. Byrne, B. Roycroft, P. Lambkin, B. Corbett, J.F. Donegan	A novel two-section tunable slotted Fabry-Pérot laser exhibiting ns wavelength switching
5	I.A. Sukhoivanov, S.O. Yakushev, O.V. Shulika, V.V. Lysak	Dispersion compensation with chirped mirrors for compression of ultrashort laser pulses
6	V. Lysak, Y-T. Lee	Simulation of intra-cavity contacted oxide-confined vertical cavity surface emitting lasers for 10Gb/s ultrashort optical interconnections

RONEXT II (Tuesday, 16:45 – 18:45)

1	K.-D. Langer, J. Grubor	Recent developments in optical wireless communications using infrared and visible light
2	E. Leitgeb, K. Zettl, S.S. Muhammad, N. Schmitt, W. Rehm	Investigation in free space optical communication links between unmanned aerial vehicles (UAVs)
3	Z. Ghassemlooy, W.O. Popoola, E. Leitgeb	Free-space optical communication using subcarrier modulation in gamma-gamma atmospheric turbulence
4	S. Rajbhandari, Z. Ghassemlooy, M. Angelova	The performance of PPM using neural network and symbol decoding for diffused indoor optical wireless links
5	H. Kotake, S. Haruyama, M. Nakagawa, K. Seki	BER characteristic of ground-to-train communication system using free-space optics technology

6	S. Betti, V. Carrozzo, E. Duca	Over-stratospheric-altitude optical free space links: system performance evaluation
7	S.S. Muhammad, P. Brandl, E. Leitgeb, O. Koudelka, I. Jelovcan	VHDL based FPGA implementation of 256-ary PPM for free space optical links

Poster 2: Microresonators (Tuesday, during breaks between sessions)

1	I. Chremmos, N. Uzunoglu	Matrix analysis of coupled microring resonator polygons
2	J-J. Li, J-X. Wang, Y-Z. Huang	Mode coupling between coupled first and second order whispering-gallery modes in coupled two microdisks
3	Y-Z. Huang, Y-H. Hu, Q. Chen, S-J. Wang, Y. Du, Z-C. Fan	Continuous-wave electrically injected InP/GaInAsP equilateral-triangle-resonator lasers
4	J-W. Ryu, S.W. Kim	Symmetric interacting whispering gallery modes in coupled dielectric microdisks
5	G.S. Blaustein, M.I. Gozman, I.Y. Polishchuk, A.L. Burin	Optical modes in linear arrays of dielectric spherical particles: a numerical investigation
6	H-J. Moon, D-Y. Kang	Strong mode selection scheme in a layered cylindrical microcavity laser with a thin dielectric inner coating
7	X. Wu, Q. Song, H. Li, Z. He, Y. Zhang, L. Liu, L. Xu	High quality direct photo-patterned microdisk lasers with organic/inorganic hybrid materials
8	S-Y. Lee	Effect of openness on resonance patterns in chaotic microcavities
9	N. Sakhnenko, A. Nerukh	Early time fields in stratified microdisk resonators with time discontinuity in permittivity
10	T.K. Sasaki, Y. Nakae, M. Choi, T. Fukushima, T. Harayama	Optical control of ring modes using tandem quasi-stadium laser diodes
11	J. Yang, S-B. Lee, J-B. Shim, S. Moon, S.W. Kim, J-H. Lee, K. An	Efficient nonresonant optical pumping of a deformed microcavity based on ray and wave chaos
12	S. Sunada, T. Harayama, T. Miyasaka	Generalized Sagnac effect in rotating optical cavities
13	Y. Nakae, H. Takehana, T. Sasaki, T. Fukushima, T. Harayama	Beam mode observation in quasi-stadium laser diodes
14	M. Choi, T. Fukushima, T. Harayama	Two mode interactions in quasi-stadium laser diodes
15	V.N. Astratov, S. Yang, S. Lam, B.D. Jones, D. Sanvitto, D.M. Whittaker, A.M. Fox, M.S. Skolnick, A. Tahraoui, P.W. Fry, M. Hopkinson	High-quality-factor WG modes in semiconductor microcavity pillars with circular and elliptical cross section
16	S-B. Lee, J-B. Shim, J. Yang, S. Moon, S-W. Kim, J-H. Lee, K. An	Far-field emission patterns and the emission positions of individual cavity modes in a highly deformed microcavity
17	S.V. Pishko, S.V. Boriskina	Pre- and post-fabrication tuning of bends in microdisk CROW sections: a numerical study
18	G. Fasching, V. Tamošiūnas, A. Benz, A.M. Andrews, Ch. Deutsch, R. Zobl, W. Schrenk, G. Strasser, K. Unterrainer	Single-mode whispering-gallery terahertz quantum-cascade lasers with controlled degeneracy

19	G. Abaeiani, V. Ahmadi, K. Saghafi	Microring-based resonant cavity waveguide photodetectors for WDM optical systems
20	S. Shinohara, T. Harayama	Ray-wave correspondence in stadium-shaped optical cavities
21	J. Cho, J. Lee, T-Y. Kwon, S. Rim, C-M. Kim	Oscillatory lasing modes in a coupled circular microcavity
22	T-Y. Kwon, J. Wiersig, M. Hentschel	Directional light output from a circular microdisk laser
23	C.P. Dettmann, G.V. Morozov, M. Sieber, H. Waalkens	Far-field emission pattern of a dielectric circular microresonator with a point scatterer
24	E.I. Smotrova, A.I. Nosich, T.M. Benson, P. Sewell	Linear optical analysis of microdisk lasers concentrically coupled with microrings
25	V.O. Byelobrov, A.I. Nosich	Thresholds of lasing as solutions of characteristic equation for a VCSEL-type layered structure
26	J.R. Pugh, I.J. Buss, G.R. Nash, T. Ashley, A. Krier, M.J. Cryan, J.G. Rarity	FDTD modelling of mid infrared disk lasers
27	G.E. Fernandes, G.D. Chern, Q. Song, L. Xu, M. Kneissl, N.M. Johnson, R.K. Chang	Varying the overlap of direct-coupling between spiral and semicircle semiconductor microdisk lasers
28	J. Schaefer, J.P. Mondia, R. Sharma, Z.H. Lu, L.J. Wang	Emission properties of quantum dots in a levitated microdrop

ICTON VII (Wednesday, 8:30 – 10:30)

1	J. Bruns, T. Mitze, L. Zimmermann, K. Voigt, M. Schnarrenberger, K. Petermann	An optical board approach based on SOI (silicon-on-insulator)
2	L. Wosinski, L. Liu, M. Dainese, E. Berglind	Technology challenges for silicon nanophotonics and beyond
3	R. Caspary, A. Behrends, H. Shalibeik, M.M. Kozak, W. Kowalsky	Coherent optical frequency domain reflectometry as characterisation tool for S-Band TDFAs
4	S. Taccheo, G. Della Valle, K. Ennser	Bidirectional erbium-doped waveguide amplifiers and applications to optical networks
5	D. Noordegraaf, M. Lorenzen, C. Vandel Nielsen, K. Rottwitt	Brillouin scattering in fiber optical parametric amplifiers
6	E.J. Klein, A. Driessen	Densely integrated photonic devices based on microring resonators for use in access networks

ESPC IV (Wednesday, 8:30 – 9:50)

1	M.J. Cryan, P. Ivanov, D. Snoswell, C. Bower, B. Vincent, J.G. Rarity	Modelling and measurement of electronically tunable photonic crystals
2	R.J.P. Engelen, Y. Sugimoto, H. Gersen, N. Ikeda, K. Asakawa, L. Kuipers	Eigenstates of photonic crystal structures visualized in real space and in k-space
3	S. Tretyakov	Limits of geometrical scaling of split rings and double-bar resonators in the visible
4	M. Delgado-Pinar, J. Cascante-Vindas, S. Torres-Peiró, T. Pinheiro-Ortega, E. Silvestre, A. Diez, J.L. Cruz, M.V. Andrés	Fabrication of polarizing photonic crystal fibres and photonic crystal fibre tapers: applications

RONEXT III (Wednesday, 8:30 – 10:35)

1	W.D. Grover	How a network can “think globally and act locally” and avoid the hazards of incoherence in distributed state information
2	M. Jaeger	Service requirements in optical network design
3	T. Saad, J. Israr, S. Sivabalan, H.T. Mouftah	An evaluation for PCE Selection schemes for inter-domain path computation
4	S. Das, P. Monti, M. Tacca, A. Fumagalli	Optical corridor routing protocols
5	P. Szegedi, J. Szigeti, T. Cinkler	Reliable control and management plane design in multi-domain optical networks
6	L. Velasco, S. Spadaro, J. Comellas, G. Junyent	Experimental evaluation of OMS protection in GMPLS-based optical networks
7	H. Lui, H.T. Mouftah	A new absolute QoS differentiation scheme supporting best-effort class in OBS networks

Special Session: Novel Glasses I (Wednesday, 8:30 – 10:10)

1	A.B. Seddon, D. Furniss, W.J. Pan, P. Sewell, A. Loni, Y. Zhang, T.M. Benson	Review: fine embossing of novel glasses for photonic integrated circuits
2	G. Jose, P. Nandi, S. Shen, J. Zhang, A. Jha	Novel glass hosts for integrated planar amplifiers in the optical communication window (1200-1700 nm)
3	C. Armellini, A. Chiappini, A. Chiasera, M. Ferrari, Y. Jestin, P.H. Huy, M. Mattarelli, L. Minati, M. Montagna, E. Moser, G. Nunzi Conti, S. Pelli, G.C. Righini, G. Speranza, C. Tosello, K. Tran Ngoc	Nanocomposite photonic glasses, waveguiding glass ceramics, and confined structures tailoring Er ³⁺ spectroscopic properties
4	G. Della Valle, R. Osellame, S. Taccheo, N. Chiodo, G. Galzerano, G. Cerullo, P. Laporta, R. Ramponi, U. Morgner, A.C. Ferrari	Waveguide lasers in Er:Yb-doped phosphate glass fabricated by femtosecond laser writing
5	C.B. de Araújo, L.A. Gómez, E.L. Falcão Filho, D.N. Messias, L. Misoguti, S.C. Zílio, M. Nalin, Y. Messaddeq	Antimony glasses with large nonlinear refractive indices, low two-photon absorption coefficients and ultrafast response at telecom wavelengths

ICTON VIII (Wednesday, 11:00 – 13:00)

1	L.W. Cahill, T.T. Le	MMI devices for photonic signal processing
2	P.M. Anandarajah, L.P. Barry	Cost-efficient pulse source for broadband photonic communication systems
3	S. Penna, A. Reale, R. Pizzoferrato, D. Musella, G.M. Tosi Belleffi, W.P. Gillin	Novel infrared emitter for low cost optical devices
4	V.L. Derbov, V.V. Serov, I.L. Plastun, A.V. Trofimov	Transient phenomena and time-dependent resonance self-action in phase-modulated laser beams
5	A. Komarov, K. Komarov, H. Leblond, F. Sanchez	Spectral management of solitons interaction and generation regimes of fiber laser
6	K. Ozga, A. Ślęzak	Photopolymerized optical fiber technology

ESPC V (Wednesday, 10:20 – 12:20)

1	T. Birks, A Witkowska, S Leon-Saval, K. Lai, W. Wadsworth	Broadband mode converters in photonic crystal fibres
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2	D. de Ceglia, A. D'Orazio, M. De Sario, V. Petruzzelli, M.A. Vincenti, F. Prudenzano, M.J. Bloemer, M. Scalora	Photonic crystal assisted polymeric optical field concentrator
3	K. Gallo, A. Pasquazi, S. Stivala, G. Assanto	Spatial solitons in quadratic 2D nonlinear photonic crystals
4	K. Staliunas, Yu. Loiko, R. Herrero, J. Trull, C. Cojocaru	Optical parametric amplification of narrow beams under subdiffractive propagation in photonic crystals
5	D.J. Richardson, P. Petropoulos, F. Parmigiani, P.J. Almeida, C. Tian, T.T. Ng, Z. Zhang, M. Ibsen	Advances in fibre based pulse shaping technology and its applications in optical communications
6	G. Calò, A. D'Orazio, M. De Sario, L. Mescia, V. Petruzzelli, F. Prudenzano	Microstructured optical fiber sensors

WAOR IV (Wednesday, 11:05 – 13:05)

1	J.D. Angelopoulos, K. Kanonakis, H.C. Leligou, T. Orphanoudakis, T. Politi	Analytical evaluation and implementation of a novel slotted optical switching scheme with two way reservations
2	C. Raffaelli, M. Savi	Cost comparison of optical packet switches with shared wavelength converters
3	Z. Rosberg, H. Le Vu	Design and performance of FDL buffers in optical switches
4	R. Van Caenegem, D. Colle, M. Pickavet, P. Demeester	Scalable designs for all-optical packet-switching nodes
5	T.G. Orphanoudakis, A. Drakos, C. Matrakidis, C. Politi, A. Stavdas	A hybrid optical switch architecture with shared electronic buffers
6	A. Bianco, E. Carta, D. Cuda, J.M. Finochietto, F. Neri	An optical interconnection architecture for large packet switches

Special Session: Novel Glasses II (Wednesday, 10:40 – 12:20)

1	J. Troles, L. Brilland, F. Smektala, N. Traynor, P. Houizot, F. Desevedavy	Chalcogenide photonic crystal fibers for near and middle infrared applications
2	D. Milanese, Q. Chen, G. Liao, J. Xing, D. Chiaretta, M. Fokine, M. Ferraris	Novel telluride glasses and nanocluster doped silica for photonics
3	J. Lousteau, H. Bookey, X. Jiang, C. Hill, A. Jha	Fabrication of multicore tellurite glass optical fibres
4	K.S. Abedin	Efficient slow light generation using highly nonlinear non-silica-based fibers
5	B. Dussardier, W. Blanc	Alternative dopants for silica fibre amplifiers

PICAW (Wednesday, 14:30 – 16:30)

1	A. Melloni, F. Morichetti, G. Cusmai, R. Costa, A. Breda, C. Canavesi, M. Martinelli	Progress in large integration scale circuits in SiON technology
2	E-H. Lee	Optical printed circuit board (O-PCB) as a platform for VLSI micro/nano-photonics circuits and networks
3	V.G. Ta'eed, B. Eggleton	Ultrafast all-optical signal processing using chalcogenide glass based photonic chips

4	L-E. Nilsson, Z. Yu, O. Tarasenko, H. Knape, P-Y. Fonjallaz, W. Margulis	High-speed switching in fibres with electrodes
5	M. Fallahi	Hybrid organic-inorganic for low-cost photonics integration
6	A. Cabas, M. Di Muri, S. Doneda, P. Galli, S. Ghidini, F. Giacometti, S. Lorenzotti, G. Mutinati, A. Nottola, M. Romagnoli, S. Sardo, L. Socci, T. Tomasi, G. Zuliani, M. Gentili, G. Grasso, M. Romagnoli	Silicon on insulator based integrated tunable add & drop module for metro DWDM networks

NAON V (Wednesday, 13:50 – 15:50)

1	W. Freude, C. Koos, C.G. Poulton, M. Fujii, J. Leuthold	Minimizing roughness loss for ultra-compactly bent high-index contrast waveguides
2	T.R. Nielsen, N. Gregersen, B. Tromborg, J. Mørk	Modeling Q-factors of micro pillars
3	R. Li Voti,	Nanoscale heat transport in synthetic opals
4	G. Scarpa, F. Brunetti, S. Harrer, P. Lugli	Nanoimprint lithography for optical components
5	G. Brambilla, F. Xu	Optical fibre nanowires and related structures
6	I.V. Kityk	Optically induced electrogrators based on nanomaterials

GOWN I (Wednesday, 14:35 – 16:30)

1	M. Fabbri, P. Faccin	Radio over fiber technologies and systems: new opportunities
2	S. Betti, V. Carrozzo, E. Duca, G. Parca	Radio-over-fiber (RoF) techniques for broadband wireless LAN
3	K. Kikushima, T. Fujiwara, S. Ikeda	Multi-channel super high frequency TV signal transmission system
4	M.G. Di Benedetto, L. De Nardis	MAC design in pulse-based communication systems
5	R. Borghi, M. Alonso	Efficient evaluation of far-field asymptotic series
6	J. Prat, M. Omella, P. Poggiolini, G. Bosco, R. Killey, A. Teixeira, R. Sousa	Electronic equalization of photodetection by means of an SQRT module

ESPC VI (Wednesday, 17:00 – 19:00)

1	P. Casara, F. Carollo, P. Facchin, M. Santagiustina, C.G. Sameda, G. Brusatin, A. Martucci, K. Oh	Holey fibers filled with liquids and sol-gel materials
2	A.V. Lavrinenko, R.J. Leyrer, W. Wohlleben, N. Dissaux, K. Heggarty, M. Boyle, R. Kiyan, A. Neumeister	Artificial opals as nanophotonic materials for optics communications
3	R.M. de Ridder, W.C.L. Hopman, F. Ay	Focused-ion-beam processing for photonics
4	K. Aoki, D. Guimard, M. Nishioka, T. Katsuyama, S. Iwamoto, Y. Arakawa	Arrayed 3D photonic crystals for optical communication wavelengths
5	G. Violakis, S. Pissadakis	Improved efficiency Bragg grating inscription in a commercial solid core microstructured optical fiber

6	S.G. Romanov, M. Szachowicz, M. Bardosova, I. Povey, M. Pemble, C.M. Sotomayor-Torres	Langmuir-Blodgett approach versus self-organization in realization of colloidal photonic crystals and hetero-crystals – pros and cons
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NAON VI (Wednesday, 16:20 – 18:20)

1	J. Leuthold, J. Wang, T. Vallaitis, Ch. Koos, R. Bonk, A. Marculescu, P. Vorreau, S. Sygletos, W. Freude	New approaches to perform all-optical signal regeneration
2	H.M. van Driel, J.E. Sipe, A.L. Smirl	All-optical generation and control of spin currents
3	X. Yang, R.J. Manning, A.K. Mishra, R.P. Webb, A.D. Ellis, D. Cotter	Application of semiconductor optical amplifiers in high-speed all-optical NRZ to RZ format conversion
4	F. Gómez Agis, C. Ware, D. Erasme	Clock synchronization and sub-clock extraction of optical signals at high rates using an opto-electronic PLL based on three-wave mixing in PPLN
5	S. Sygletos, M. Spyropoulou, P. Vorreau, R. Bonk, I. Tomkos, W. Freude, J. Leuthold	Multi-wavelength regenerative amplification based on quantum-dot semiconductor optical amplifiers
6	E. Fazio	Bright solitons in lithium niobate generate volume waveguides, basic elements for 3-D integrated circuits

GOWN II (Wednesday, 17:00 – 19:00)

1	S. Latkowski, F. Surre, P. Landais	RF or THz signals generated from DC biased multimode lasers
2	S. Di Bartolo, A. Teixeira, G.M. Tosi Beleffi, F. Curti	Effects of semiconductor optical amplifier phase distortion in radio over fiber signals
3	A. Kaszubowska-Anandarajah, L. Barry, P. Anandarajah, C. Guignard, B. Kelly, J. O’Gorman	Discrete mode lasers for applications in access networks
4	S. Sales, F. Öhman, J. Capmany, J. Mørk	Applications of the slow and fast light effects in SOA-EA structures in the radio over fiber links
5	J. Ma, X. Xin, Ch. Yu, Q. Zhang, J. Yu, X. Sang, J. Zeng	Millimeter-wave optical subcarrier generation by using an external modulator and optical carrier suppression
6	T. Berceci, E. Udvary	Indoor communications applying an optical backbone

Poster 3: Devices (Wednesday, during breaks between sessions)

1	J.Z. Sotor, A.J. Antończak, K.M. Abramski	Optical FM demodulation by fibre Bragg grating
2	F. Bonada, J.A. Lázaro, J. Prat	Noise figure characterization in erbium doped fibers for remotely amplified PONs
3	A. Waz, P.R. Kaczmarek, K.M. Abramski	Detection of scattered light in fiber-free space-object configurations
4	A.J. Antończak, M. Matysiak, J.Z. Sotor, K.M. Abramski	Diode pumped compact Nd:YAG/BiBO blue laser at 473 nm
5	E.A. Avrutin, B.M. Russell	Influence of external optical feedback on mode-locked laser diode dynamics
6	M. Nikodem, G. Tomczyk, A. Budnicki, K.M. Abramski	Passively mode-locked EDF ring laser
7	S-H. Seong, S-W. Ryu, H-J. Ko, J-S. Kim	Characterization of external cavity laser with thin film narrow bandpass filter

8	A. Bocheński, J. Palmowski, M. Napierała, E. Beres-Pawlik, K. Jędrzejewski	Side pumped polarization maintaining double-clad fiber laser
9	N. Trela, P.R. Kaczmarek, K.M. Abramski	Supercontinuum generation in the standard telecommunication fibers pumped by ns-pulses from Q-switched FSF fiber laser
10	C. O’Riordan, M.J. Connelly, I. Evans, P.M. Anandarajah, R. Maher, L.P. Barry	Actively mode-locked multiwavelength fibre ring laser incorporating a Lyot filter, hybrid gain medium and birefringence compensated LiNbO3 modulator
11	R. Meleiro, J. Castro, P. André, P. Monteiro	Performance study of a time slot interchanger based on a MZI-SOA in the switch configuration
12	M.L.F. Abbade, F.A. Callegari, E. Moschim, F.R. Durand, F.R. Barbosa	Ternary amplitude optical packets generated by parametric amplification
13	G. Manzacca, K. Hingler, G. Cincotti	Ultra fast switching by controlling Rabi splitting
14	B.F. Kennedy, K. Bondarczuk, L.P. Barry	Experimental analysis of four-wave mixing in a semiconductor optical amplifier using frequency resolved optical gating
15	M.S. Tahvili, M.H. Sheikhi	Distributed coupling coefficient DFB SOA-based optical switch
16	K.E. Zoiros, C. Botsiaris, R. Chasioti, C.S. Koukourlis	Evaluation and optimization of SOA-based UNI Q-factor
17	T.H. Baghdasaryan, A. Galstyan, R. Hakobyan	Focusing characteristics of chirped hologram gratings written in polymer dispersed liquid crystals (PDLC)
18	V.N. Boriskin, M.I. Ayzatsky, S.V. Boriskina, Y.P. Machehin, A. Semenov	Theoretical and experimental study of temperature-dependent spectral properties of multi-layer metal-dielectric nano-film structures
19	S. Dontu, V. Babin, C. Grigorescu, D. Savastru, M. Miclos, M.I. Rusu, D. Tenciu	Propagation of optical field in nonlinear photonic crystals
20	M.I. Rusu, S. Miclos, D. Savastru, M. Popescu	New phase-change materials to achieve cognitive computing – overview and future trends
21	M. Zdanowicz, M. Marciniak, M. Jaworski, E. Bekker, T.M. Benson	Finite difference beam propagation method applied to photonic crystal fibres
22	M. Francardi, L. Balet, A. Gerardino, N. Chauvin, B. Alloing, C. Zinoni, C. Monat, L.H. Li, N. Le Thomas, R. Houdré, A. Fiore	Control of the spontaneous emission of single InAs quantum dots at 1.3 μ m in point-defect photonic crystal nanocavities
23	P. Hlubina, D. Ciprian, R. Chlebus	Differential group index dispersion of a holey fiber measured by white-light spectral interferometry
24	A.A. Dyomin, G.V. Tkachenko, V. Tkachenko, G. Abbate, L. De Stefano, I.A. Sukhoivanov	Electrical reorientation of liquid crystal within silicon macropore for photonic devices
25	G.G. Eyramjyan, H.V. Baghdasaryan, T.M. Knyazyan	Modeling of transparent in visible range metal-dielectric multilayer structure by the MSE
26	Y. Izdebskaya, V. Shvedov, A. Volyar	High orbital angular momentum of singular and Gaussian beams arrays
27	Y. Fukuchi, T. Tanaka, K. Watanabe, M. Akaike	Analyses of all-optical ultra-fast gate switches using cascaded second-order nonlinear effect in periodically poled lithium niobate waveguides: methods of performance enhancement and effects of device fabrication errors
28	N. Dogru, M.J. Adams, I.D. Henning	Computer modelling and optimisation of mode-locked lasers
29	J.S. Witkowski, A. Grobelny	Ray tracing method applied for DC fibers

30	J. Gerdes	Hybrid time-frequency domain eigenmode propagation analysis of optical waveguides based on the method of lines
31	V.K. Kononenko	Nonlinear gain and related effects in quantum-well heterostructures

ICTON IX (Thursday, 8:30 – 10:30)

1	T.M. Benson, E. Bekker, A. Vukovic, P. Sewell	The continuing role of beam propagation methods in photonics design
2	P. Sewell, T.M. Benson, A. Vukovic, C. Styan	Adaptive simulation of optical ASICs
3	E.V. Bekker, P. Sewell, T.M. Benson, A. Vukovic	Wide-angle alternating-direction implicit finite-difference BPM
4	N. Sakhnenko, A. Nerukh	Waveguiding and resonant cylindrical structures with time varying permittivity
5	H.V. Baghdasaryan, T.M. Knyazyan, T.H. Baghdasaryan, G.G. Eyrarmjyan	Extension and application of the method of single expression (MSE) for analysis of plane electromagnetic wave oblique incidence on a dielectric slab
6	E. Shumakher, A. Willinger, G. Eisenstein	Fundamental limits and recent advances in slow and fast light systems based on optical parametric processes in fibers

NAON VII (Thursday, 8:30 – 10:10)

1	R.J. Manning, R. Giller, Xu. Yang, R.P. Webb, D. Cotter	SOAs for all-optical switching - techniques for improvements in speed
2	S. Philippe, A.L. Bradley, F. Surre, B. Kennedy, P. Landais	Dynamics of nonlinear polarisation rotation in semiconductor optical amplifiers
3	S. Philippe, F. Surre, A.L. Bradley, R. Maldonado-Basilio, B. Kennedy, P. Landais, H. Soto-Ortiz	Polarization dependent intra-band gain dynamics in semiconductor optical amplifiers
4	V. Ahmadi, K. Abedi, E. Darabi	New asymmetric quantum well travelling-wave electroabsorption modulator with very low insertion loss and high extinction ratio
5	J. Misiewicz, G. Sęk, R. Kudrawiec, M. Motyka	Electromodulation-absorption type spectroscopy of semiconductor structures applied in telecommunication lasers

WAOR V (Thursday, 8:30 – 10:30)

1	E. Kozlovski	Service management in advanced optical internet
2	J. Veiga-Gontán, P. Pavón-Mariño, J. García-Haro, M. Rodelgo, C. López-Bravo, F.J. González-Castaño	Network processors: a practical approach for achieving wire-speed packet processing in the emerging optical backbone networks
3	S. Aleksić	Transmission performance of optically transparent metro edge nodes
4	J. Scharf, A. Kimsas, M. Köhn, G. Hu	OBS vs. OpMiGua – a comparative performance evaluation
5	J. Comellas, J. Perelló, F. Agraz, S. Spadaro, G. Junyent	Grooming strategies for GMPLS controlled WDM networks
6	D. Bayart	Physical constraint-aware dynamic transparent WDM networks

Special Session: Access (Thursday, 11:00 – 12:55)

1	L.G. Kazovsky, N. Cheng, W-T. Shaw, S.-W. Wong	CROWN – converged optical and wireless networks: network architecture and routing algorithms
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2	C. Bock, J. Prat, S.D. Walker	Optical next-generation access networks featuring combined WDM and TDM
3	M. Hajduczenia, H.J.A. da Silva, P. Monteiro	10G EPON development process
4	M. Rasztoivits-Wiech, A. Stadler, S. Gianordoli, K. Kloppe	Is a 10/2.5Gbit/s extra-large PON far from reality?
5	J. Segarra, V. Sales, J. Prat	Traffic performance of an access hybrid WDM/TDM PON with colorless reflective-ONUs under different distances OLT-ONUs
6	P.J. Urban, E.J. Klein, L. Xu, E.G.C. Pluk, A.M.J. Koonen, G.D. Khoe, H. de Waardt	1.25-10 Gbit/s reconfigurable access network architecture

NAON VIII (Thursday, 10:40 – 12:20)

1	G. Huyet	Quantum dot materials and devices
2	M.T. Todaro, A. Salhi, L. Fortunato, R. Cingolani, A. Passaseo, M. De Vittorio	High gain and high speed 1.3 μm InAs/InGaAs quantum dot lasers
3	C. Meuer, M. Laemmlin, J. Kim, G. Eisenstein, D. Bimberg	Multi wavelength ultrahigh frequency amplification by quantum dot semiconductor optical amplifiers
4	E. Romanova, V. Janyani, A. Vukovic, P. Sewell, T. Benson	Design of non-linear guiding structures for processing of the ultra-short laser pulses
5	K. Král	Optical properties and electronic transport in quantum dot structures

WAOR VI (Thursday, 11:00 – 12:35)

1	T. Silveira, A. Teixeira, A. Ferreira, G.M. Tosi Beleffi, D. Forin, S. Stevan Jr, P. Monteiro	All-optical signal processing using gain-clamped semiconductor optical amplifiers
2	K. Ennsner, G. Della Valle, S. Taccheo, J. Aracil	Investigation of optical-burst-transmission induced impairment in gain-clamped amplifiers
3	R. Nogueira, A. Teixeira, M. Violas, R. Sousa, P. André, T. Silveira, R. Olcina, S. Sales	Tuneable optical dispersion compensators for dynamic optical networks
4	H. Lim, J. Kim, C. Oh	Hybrid buffer structured optical packet switch with the optimum numbers of tunable wavelength converters and internal wavelengths
5	C.G. Argos, O.G. de Dios, J. Aracil	Adaptive multi-path routing for OBS networks