



## Tuesday 29<sup>th</sup> of May

*Workshop on Optical networking perspectives vs. optical technologies reality*  
supported by cost 291 action

Opening session Tu1		
9:30 – 10:00	Welcome – Workshop opening and scope	Ioannis Tomkos
10:00 – 10:45	Morning <b>Plenary Talk:</b> Tu1.1 - Networking Goals and Optical Technologies Reality University of Southern California	Allan Willner
10:45 – 11:00	Open Discussions	

11:00 – 11:30	Coffee Break
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Session Tu2		
11:30 – 12:00	Tu2.1 – QoT-dependant routing and wavelength allocation strategies ( <b>Invited</b> ) ENST	Maurice Gagnaire
12:00 – 12:15	Tu2.2 - Performance comparison of multi-wavelength conversion using SOA-MZI and DSF for optical wavelength multicast Eindhoven University of Technology	Jorge del Val Ni Yan Eduward Tangdiongga Ton Koonen
12:15 – 12:30	Tu2.3 - 80Gb/s Multi-wavelength Optical Packet Switching using PLZT Switch University of Tokyo, Chuo University	Katsuya Watabe Tetsuya Saito Nobutaka Matsumoto Hideaki Imaizumi Hiroyuki Morikawa
12:30 – 12:45	Tu2.4 - 2x2 Bismuth-Oxide-Fiber Based Crossbar Switch for All-Optical Switching Architectures NTUA	Olga Zouraraki Paraskevas Bakopoulos Konstantinos Vyrsoinos Hercules Avramopoulos
12:45 – 13:00	Tu2.5 - Impact of Transient Response of Erbium-Doped Fiber Amplifier for OPS/WDM and its Mitigation NICT, Amonics ltd	Yoshinari Awaji Hideaki Furukawa Naoya Wada Eddie Kong Peter Chan Ray Man

13:00 – 14:15	Lunch break
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<b>Session Tu3</b>		
14:15 – 15:00	Afternoon <b>Plenary Talk:</b> Tu3.1 – Cross-layer optimization issues to support distributed grid computing applications over physical topology University at Buffalo	Chunming Qiao
15:00 – 15:15	Tu3.2 - Mutual Impact of Physical Impairments and Grooming in Multilayer Networks Budapest University of Technology and Economics	Szilárd Zsigmond Tibor Cinkler Gábor Németh
15:15 – 15:30	Tu3.3 - Impairment Aware based Routing and Wavelength Assignment in Transparent Long Haul Networks Athens Information Technology – AIT	George Markidis Stelios Sygletos Anna Tzanakaki Ioannis Tomkos
15:30 – 15:45	Tu3.4 - MatPlanWDM: An educational tool for network planning in wavelength-routing networks Polytechnic University of Cartagena	Pablo Pavon-Marino Ramon Aparicio-Pardo Gonzalo Moreno-Muñoz Joan Garcia-Haro Juan Veiga-Gontan
15:45 – 16:15	Tu3.5 - Centralized vs. Distributed Approaches for Encompassing Physical Impairments in Transparent Optical Networks ( <b>Invited</b> ) Scuola Superiore Sant'Anna - SSSUP	Piero Castoldi

16:15 – 16:30	Coffee Break	
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<b>Session Tu4</b>		
16:30 – 17:00	Tu4.1 - All-optical signal processing subsystems based on highly non-linear fibers and their limitations for networking applications ( <b>Invited</b> ) IREE, Instituto de Telecomunicações, ISCOM, Siemens SA	Miroslav Karasek António Teixeira Giorgio Tosi Belleffi Ruben Luís
17:00 – 17:15	Tu4.2 - A Low Cost Migration Path Towards Next Generation Fiber-To-The-Home Networks Universidad Simón Bolívar, UPC	Reynaldo Martinez Josep Prat José Lázaro Victor Polo
17:15 – 17:30	Tu4.3 - Securing Passive Optical Networks Against Signal Injection Attacks Siemens	Harald Rohde Dominic Schupke
17:30 – 17:45	Tu4.4 - Novel Passive Optical Switching Using Shared Electrical Buffer and Wavelength Converter Optical Internet Research Center, Korea	Ji-Hwan Kim
17:45 – 18:00	Tu4.5 - 160 Gbps Simulation of a Quantum Dot Semiconductor Optical Amplifier Based Optical Buffer Athens Information Technology, University of Patras	Maria Spyropoulou Kostas Yiannopoulos Stelios Sygletos Kyriakos Vlachos Ioannis Tomkos

18:00 – 18:30	Workshop closing and discussions	
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**Wednesday 30<sup>th</sup> of May***Optical networking design and modeling Conference sessions – Day 1*

<b>Opening session We1</b>		
9:30 – 10:00	Welcome and opening	Ioannis Tomkos
10:00 – 10:45	We1.1 - Conference <b>Plenary Talk:</b> Optical Network Architecture Sustainable From IP to Post-IP Networks NTT	Haruhisa Ichikawa
10:45 – 11:00	Open Discussions	

11:00 – 11:30	Coffee Break	
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<b>Session We2</b>		
11:30 – 12:00	We2.1 - Optical Grid Networks ( <b>Invited</b> ) Ghent University	Piet Demeester
12:00 – 12:15	We2.2 - SIP Based OBS networks for Grid Computing Universita` di Bologna, University of Essex	Franco Callegati Aldo Campi Walter Cerroni Reza Nejabati Dimitra Simeonidou Georgios Zervas
12:15 – 12:30	We2.3 - Job Demand Models for Optical Grid Research University of Patras Ghent University	Kostas Christodoulopoulos Emmanouel Varvarigos Chris Develder Marc De Leenheer Bart Dhoedt
12:30 – 12:45	We2.4 - Experimental Implementation of Grid enabled ASON/GMPLS Networks Universitat Politècnica de Catalunya	Eduard Escalona Jordi Perelló Salvatore Spadaro Jaume Comellas Gabriel Junyent
12:45 – 13:00	We2.5 - Reservation Techniques in an OpMiGua Node NTNU, NO	Andreas Kimsas Steinar Bjornstad Harald Overby Norvald Stol
13:00 – 13:30	We2.6 - R & Ds for 21st Century Photonic Network in Japan ( <b>Invited</b> ) Osaka University	Ken-Ichi Kitayama

13:30 – 14:45	Lunch break	
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<b>Session We3</b>		
14:45 – 15:15	Th2.1 - All-Optical Active Queue Management (Invited) Columbia University	Keren Bergman
15:15 – 15:30	We3.2 - TCP traffic analysis for timer-based burstifiers in OBS networks University of Patras, Telefonica I+D, Universita` di Bologna	Kostas Ramantas Kyriakos Vlachos Oscar Gonzalez de Dios Carla Raffaelli
15:30 – 15:45	We3.3 - TCP performance experiment on LOBS network testbed Beijing University of Post and Telecoms - BUPT	Zhang Wei Jian Wu Jintong Lin Wang Minxue Shi Jindan
15:45 – 16:00	We3.4 - Improvement of TCP Performance over Optical Burst Switching Networks Beijing University of Post and Telecoms - BUPT	Jun Zhou Jian Wu, Jintong Lin
16:00 – 16:15	We3.5 - Routing Optimization in Optical Burst Switching Networks Universitat Politecnica de Catalunya, Warsaw University of Technology National Institute of Telecommunications	Mirosław Klinkowski Michał Pioro Davide Careglio Marian Marciniak Josep Solé-Pareta
16:15 – 16:30	We3.6 - Performance analysis of routing algorithms for optical burst switching Telefonica I+D, Universitat Politecnica de Catalunya	Oscar Gonzalez de Dios Mirosław Klinkowski Carlos Garcia Argos Davide Careglio Josep Sole Pareta

16:30 – 17:00	Coffee Break
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<b>Session We4</b>		
17:00 – 17:15	We4.1 - Transport Plane Resource Discovery Mechanisms for ASON/GMPLS Meshed Transport Networks Universitat Politècnica de Catalunya	Jordi Perelló Eduard Escalona Salvatore Spadaro Jaume Comellas Gabriel Junyent
17:15 – 17:30	We4.2 - A Study of Connection Management Approaches for an Impairment-aware Optical Control Plane Create-Net, Cisco Photonics	E. Salvadori, Y. Ye, A. Zanardi, H. Woesner, M. Carcagnì, G. Galimberti, G. Martinelli, A. Tanzi, D. La Fauci
17:30 – 17:45	We4.3 - An Automatic Model-based Reconfiguration and Monitoring Mechanism for Flexible GMPLS-based Optical Networking Testbeds Centre Tecnològic de Telecomunicacions de Catalunya - CTTC	Fermín Galán Márquez Raul Muñoz
17:45 – 18:00	We4.4 - Clustering for Hierarchical Traffic Grooming in Large Scale Mesh WDM Networks North Carolina State University	Bensong Chen George Rouskas Rudra Dutta
18:00 – 18:15	We4.5 - Grooming-Enhanced Multicast in Multilayer Networks Budapest University of Technology and Economics	Péter Soproni Marcell Perényi Tibor Cinkler
18:15 – 18:30		

**Thursday 31<sup>st</sup> of May***Optical networking design and modeling Conference sessions – Day 2*

<b>Session Th1</b>		
09:30 – 10:00	Th1.1 - MUPBED - Interworking Challenges in a Multi-Domain and Multi-Technology Network Environment ( <b>Invited</b> ) T-Systems	Hans Martin Foisel
10:00 – 10:15	Th1.2 - Rule-Based Advertisement and Maintenance of Network State Information in Optical-Bearred Heterogeneous Networks Budapest University of Technology and Economics	János Szigeti Tibor Cinkler
10:15 – 10:30	Th1.3 - Enhanced Parallel Iterative Schedulers for IBWR optical packet switches Universidad de Vigo, Polytechnic University of Cartagena	Francisco Castano Joan Garcia-Haro Miguel Rodelgo Lacruz Pablo Pavon-Marino Cristina Lopez-Bravo Juan Veiga-Gontan
10:30 – 10:45	Th1.4 - A New Algorithm for the Distributed RWA Problem in WDM Networks Using Ant Colony Optimization University of Valladolid	Víctor Aragón, Ignacio de Miguel Ramón Durán, Noemí Merayo Juan Carlos Aguado Patricia Fernández Rubén Lorenzo, Evaristo Abril
10:45 – 11:00	Th1.5 - Optical IP Switching for dynamic traffic engineering in next-generation optical networks CTVR, University of Dublin	Marco Ruffini Donal O'Mahony Linda Doyle
11:00 – 11:15	Th1.6 - An Efficient Virtual Topology Design and Traffic Engineering Scheme for IP/WDM Networks University of Bilkent	Namik Sengezer Ezhan Karasan

11:15 – 11:30	Coffee Break
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<b>Session Th2</b>		
11:30 – 12:00	We3.1 - Optical Burst Switching Network Testbed ( <b>Invited</b> ) Beijing University of Post and Telecoms - BUPT	Jian Wu
12:00 – 12:15	Th2.2 - Segmentation-based Path Switching Mechanism for Reduced Data Losses in OBS Networks Danish Technical University – COM Tellabs, DK	Anna Manolova Jakob Buron Sarah Ruepp Lars Dittmann Lars Ellegard
12:15 – 12:30	Th2.3 - Towards Efficient Optical Burst-Switched Networks without All-Optical Wavelength Converters Siemens Networks S.A	João Pedro Paulo Monteiro João Pires
12:30 – 12:45	Th2.4 - New Assembly Techniques for Optical Burst Switched Networks Based on Traffic Prediction University of Patras	Angeliki Sideri Emmanouel Varvarigos
12:45 – 13:00	Th2.5 - A Novel Burst Assembly Algorithm for Optical Burst Switched Networks based on Learning Automata Indian Institute of Technology Madras	Venkatesh Tamarapalli T. L. Sujatha C. Siva Ram Murthy
13:00 – 13:15	Th2.6 - Fast and effective dimensioning algorithm for end-to-end optical burst switching networks with ON-OFF traffic model Universidad Tecnica Federico Santa Maria Universidad de Valparaiso	Reinaldo Vallejos Alejandra Zapata Marco Aravena

13:15 – 14:30	Lunch break	
<b>Session Th3</b>		
14:30 – 15:00	Th3.1 - Layer 1 Virtual Private Network Management by Users ( <b>Invited</b> ) CRC - Canarie	Michel Savoie
15:00 – 15:15	Th3.2 - Prudent Creditization Polling (PCP): A novel adaptive polling service for an EPON Istanbul Technical University	Burak Kantarci Mehmet Tahir Sandikkaya Aysegul Gencata Sema Oktug
15:15 – 15:30	Th3.3 - Adaptive Mobile Spot Diffusing Transmitter for an Indoor Optical Wireless Channel University of Wales-Swansea	Jamal Alattar Jaafar M. H. Elmirghani
15:30 – 15:45	Th3.4 - Extra Window Scheme for Dynamic Bandwidth Allocation in EPON Sungkyunkwan University, Suwon, KR	Sang-Hun Cho, Tae-Jin Lee, Min Young Chung Hyunseung Choo
15:45 – 16:00	Th3.5 - Cost versus flexibility of different capacity leasing approaches on the optical network layer Ghent University - IMEC - IBBT	Sofie Verbrugge Didier Colle Mario Pickavet Piet Demeester
16:00 – 16:15	Th3.6 - A Bayesian decision theory approach for the techno-economic analysis of an all-optical router Universidad Autonoma de Madrid Telefónica I+D	Victor Lopez Javier Aracil José Alberto Hernández Juan Fernández-Palacios Oscar Gonzalez de Dios

16:15 – 16:30	Coffee Break	
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<b>Session Th4 – Workshop on metro networks – ePhoton WP-VDM</b>		
16:30 – 17:00	Th4.1 - Regenerator Placement with Guaranteed Connectivity in Optical Networks UTD – Texas ( <b>Invited</b> )	Andrea Fumagalli
17:00 – 17:15	Th4.2 - Optimal routing for minimum wavelength requirements in end-to-end optical burst switching rings Universidad Tecnica Federico Santa Maria	Reinaldo Vallejos Alejandra Zapata Victor Albornoz
17:15 – 17:45	Th4.3 - Routing Protocols for Carrier Ethernet Networks ( <b>Invited</b> ) Alcatel-Lucent	Dimitri Papadimitriou
17:45 – 18:00	VDM.1 - The trouble with multicast in the VPN service implemented over an IP-MPLS access and transport network	I. Martinez, D. Larrabeiti, I. Soto, P. Pacyna
18:00 – 18:15	VDM.2 - Ethernet over CWDM: Architectures for Resilience and TE	András Kern, István Moldován, Tibor Cinkler, Francesco Matera, Luca Rea
18:15 – 18:30	VDM.3 - Towards optical packet MANs: design issues and trade-offs	J. M. Finochietto, F. Neri, K. Wajda, R. Watzka, J. Domzal, M. Nord and E. Zouganeli
18:30 – 18:45	Workshop remarks and Discussions	

18:45 – 19:00	Conference closing and ONDM 2008	
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