

Conference Program

Sunday 30th, Sept.

17:00 – 19:00	REGISTRATION Desk Opening at the Conference Centre
Plenary Session I - Room: Auditorium	
18:00 – 18:30	Welcome and Opening Remarks (I. Rendina, E. Fazio, P. Ferraro)
18:30 – 19:00	Some New Roles for Semiconductor Lasers A. Yariv (California Institute of Technology, USA)
Poster Session and Welcome Cocktail	
19:00 – 20:30	Terrace Garden of Hotel "La Residenza"

Monday 1st, Oct.

08:30 – 16:00	REGISTRATION at the Conference Centre
Plenary Session II – Room: Auditorium	
08:30 – 09:00	Optofluidics D. Psaltis (EPFL, Switzerland and CALTECH, USA)
09:00 – 09:30	Plasmonics: from Physics to Applications F. Capasso (Harvard University, USA)
SESSION A1: Photonic Crystals and Metamaterials	
Room: Auditorium	Chair: C. Sibia (University of Rome La Sapienza, Italy)
09:40 – 10:00	Nanophotonics in Information Systems (Invited Paper) D. Psaltis (Dep.of ECE, University of California, San Diego, USA)
10:00 – 10:20	Metamaterials: A Route for Molecular Scale Imaging (Invited Paper) N.X. Fang (University of Illinois, USA)
10:20 – 10:40	Planar Metamaterials – The New Elemental Base For Nanophotonic (Invited Paper) N. Zheludev (Optoelectronics Research Centre, University of Southampton, Southampton, UK)
10:40 – 10:55	Photonic Crystals Emission Spectra in the Photonic Flame Effect M.I. Samoylovich (CNITI "Technomash ", Moscow, Russia)
10:55 – 11:10	Surface Termination and Vortex Control in Photonic Crystals V. Mocella (CNR - IMM, Napoli, Italy)
Break 11:10 - 11:20	
SESSION A2: Photonic Crystals and Metamaterials	
Room: Auditorium	Chair: Ady Arie (Tel-Aviv University, Israel)
11:20 – 11:40	Tunable Superprism Structures (Invited Paper) M. Gerken (Lichttechnisches Institut, Universität Karlsruhe (TH), Germany)
11:40 – 12:00	Fabrication of Large Scale Nanofocusing Device Based on Negative Refraction Index Photonic Crystals (Invited Paper) S. Cabrini (University of California, USA)
12:00 – 12:15	Design of Photonic Crystal Delay Lines Based on Enhanced Coupled Cavity Waveguides M. Moreolo (University of Roma Tre, Italy)
12:15 – 12:30	Periodic Modulation of the Diffracted Wave in Microwave Photonic Crystals S. Savo (CNISM and Dipartimento Scienze Fisiche, University "Federico II", Napoli, Italy)
12:30 – 12:45	Analysis of Two-Dimensional PBG Devices: A Generalized Macrocell Approach L. Crocco (CNR-IREA, Napoli, Italy)
12:45 – 13:05	tbd (Invited Paper) R. De La Rue (Glasgow University, UK)
Lunch Break 13:10 - 15:55 (Light Lunch at "Centro Congressi")	
SESSION B1: Optical Microsystems and Devices	
Room: Auditorium	Chair: C. Du (IOE Chinese Academy of Science, China)
16:00 – 16:20	Photonic Transistors in Silicon (Invited Paper) Z. Zalevsky (Bar Ilan University, Israel)
16:20 – 16:40	Silicon-Based Nanomaterials and Plasmonic Structures (Invited Paper) L. Dal Negro (Boston University, USA)

16:40 – 16:55	Optical Imaging of Grating Structures and Photonic Crystals (<i>Invited Paper</i>) C. Sheppard (National University of Singapore, Singapore)
16: 55 – 17:10	Two Dimensional Aperiodic Crystal Based on Thue-Morse Sequence L. Moretti (DIMET University Reggio Calabria <i>and</i> CNR-IMM, Naples, Italy)
17:10 – 17:25	Fabrication of MEMS Cell for Atomic Clocks by Laser Induced Dispensing of Cesium Vapour C. Gorecki (CNRS, Besançon, France)
17:25 – 17:40	Electro-Optical Modulation in an a-Si:H / SiCN Waveguiding Multistack S. Rao (DIMET University of Reggio Calabria, Italy)
17:40 – 17:55	Bragg Grating Fabrication pn Porus Silicon Waveguides by Laser Oxidation I. Rea (CNR-IMM, Naples, Italy)
17:55 – 18:10	Liquid Crystal: from Millimeter Waves to Terahertz R. Beccherelli (CNR-IMM, Rome, Italy)

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09:00 – 09:30	Plasmonics: from Physics to Applications	F. Capasso (Harvard University, USA)
SESSION C1: New Characterisation Methods for Materials and Devices		
Room: Azzurra		Chair: N. George
09:40 – 10:00	Performance Advances in Interferometry for Imaging and Testing (<i>Invited Paper</i>)	J. Schmit (Research and Development Group Veeco Instruments Inc., Tucson, Usa)
10:00 – 10:15	Quantitative Phase Contrast Imaging of In-Vitro Cells	L. Miccio (CNR-INOVA, Napoli, Italy)
10:15 – 10:30	Digital Holographic Microscopy for Real-Time MEMS/MOEMS Monitoring	J. Kühn (Institute of Imaging and Applied Optics, EPFL, Lousanne, Switzerland)
10:30 – 10:45	Partially Spatial Coherent Digital Holographic Microscopy for Biomedical Applications	F. Dubois (Microgravity Research Centre, Universite Libre de Bruxelles)
10:45 – 11:00	Nanoscale Cell Membrane Fluctuations Quantified by Optical Interferometry	G. Popescu (Massachusetts Institute of Technology, USA)
Break 11:00 – 11:20		
SESSION C2: New Characterisation Methods for Materials and Devices		
Room: Azzurra		Chair: C. Gorecki (CNRS, Besançon, France)
11:20 – 11:40	3D resolution in Optical Scanning Microscopy (<i>Invited Paper</i>)	M. Martínez-Corral (Department of Optics. University of Valencia , Spain)
11:40 – 11:55	New Insights in TO Piezoresponse Force Microscopy	E. Soergel (Institute of Physics, University of Bonn, Germany)
11:55 – 12:10	High Resolution X-rays Characterization of Sub-Micron Periodic Domain Structures in LiNbO₃	C. Sada (University of Padova, Italy)
12:10 – 12:25	Axially and Transversally Super Resolved Imaging	Z. Zalevsky (Bar-Ilan University, Ramat-Gan, Israel)
12:25 – 12:40	Infrared Holography Using a Microbolometer Array	N. George (University of Rochester, USA)
12:40 – 12:55	Interferometric Diagnostic of Thermal Effects in a High Power Diode Pumped Nd:YAG Ceramic Slab Laser	A. Rocco (CNR-INOVA, Naples, Italy)
Lunch Break 13:00 - 15:55 (Light Lunch at “Centro Congressi”)		
SESSION D1: Application of Optical Systems		
Room: Azzurra		Chair: S. Cabrini (University of California, USA)
16:00 – 16:20	Nanophotonics Devices Based on Plasmonics Structures (<i>Invited Paper</i>)	C. Du (IOE Chinese Academy of Science, China)
16:20 – 16:35	Lithium Niobate Electro-Optic Tunable Bragg Filter for Amplitude Modulator	L. Pierno (Selex Sistemi Integrati, Rome, Italy)
16:35 – 16:50	Fiber Optic Sensor in Aerospace Applications	V. Striano (CNR-IMM, Naples, Italy)
16:50 – 17:05	Fast Microbolometers for Pushbroom Scan Radiometry	

	L.N. Phong (Canadian Space Agency, Canada)
17:05 – 17:20	A New Area of Optical Fiber Sensors: Hybrid Optical Fibers Based on Redistribution of Power P. Siska (Technical University of Ostrava, Czech Republic)
17:20 – 17:35	High-Precision Fibre Resonator Sensors Based on Optical Frequency Combs G. Gagliardi (CNR-INOA, Naples, Italy)
17:35 - 17:50	Fiber Strain Sensor Based on π-Phase-Shifted Bragg grating and Pound-Drever-Hall Technique D. Gatti (Politecnico di Milano, Milan, Italy)

Tuesday 2nd, Oct.

08:30 – 16:00	REGISTRATION at the Conference Centre	
SPECIAL SESSION: Celebration of 80 Years of INOA		
Room: Auditorium	Chair: P. Ferraro (Co-Chair of OMS'07, Head of INOA Unit of Napoli, Italy)	
09:00 – 09:10	We live in a world of light M. Inguscio (University of Firenze – Project manager of “Progetto OTTICA del DMD CNR”, Italy)	
09:10 – 09:30	What can we do with optical frequency combs? Theodor W. Hänsch (Nobel Prize awarded, Physics, 2005)	
09:30 – 09:40	INOA, 80 years since the foundation P. De Natale (Director of INOA-CNR, Italy)	
SESSION E1: Optofluidic Microsystems and Devices		
Room: Auditorium	Chair: F. Dubois (Microgravity Research Centre, Universite Libre de Bruxelles)	
09:45 – 10:05	Microfluidic Devices Integrating Femtosecond-Written Waveguides and Microchannels (<i>Invited Paper</i>) R. Ramponi (Dep. Physics Politecnico, Milan, Italy)	
10:05 – 10:25	Quantitative Phase Imaging of Live Cells (<i>Invited Paper</i>) G. Popescu (Massachusetts Institute of Technology, MA, USA)	
10:25 – 10:40	Device for Static Sorting of Dielectric Microparticles and Living Cells P. Jàkl (Academy of Sciences of Czech Republic, Brno, Czech Republic)	
10:40 – 10:55	Carbonarius DNA Biochip Real Time Monitoring by Surface Plasmon Resonance Imaging R. Rella (CNR-IMM, Lecce, Italy)	
10:55 – 11:10	Merging Bio/Non-Bio Interfaces for Advanced Hybrid Optical Microsystems L. De Stefano (CNR-IMM, Naples, Italy)	
Break 11:10 – 11:30		
SESSION F1: Optical Sources and Photodetectors		
Room: Auditorium	Chair: H. Suche (University of Paderborn, Germany)	
11:30 – 11:45	Micro-Structured Light Emitting Diode Arrays: Applications in Fluorescence Microscopy M.A.A. Neil (Imperial College, London South Kensington, UK)	
11:45 – 12:00	Bistable Digital All-Optical Memory Based on Semiconductor Micro-Ring Laser G. Giuliani (Dep. of Electronics, University of Pavia, Italy)	
12:00 – 12:15	Micro-Pixellated Flip-Chip InGaN Light Emitting Diodes Integrated with CMOS J. McKendry (University of Strathclyd, Glasgow, Scotland)	
12:15 – 12:30	Quantum Cascade Laser-Based Spectrometer for High-Precision Spectroscopy in the Mid Infrared P. De Natale (CNR-INOA and LENS, Florence, Italy)	
12:30 – 12:45	Gan and Diamond Based MSM Photodetectors in the UV Range M.C. Rossi (University of Roma Tre, Rome, Italy)	
12:45 – 13:00	Second Harmonic Generation from Metallo Dielectric Multilayer Structures M. Larciprete (University La Sapienza, Rome, Italy)	
13:00 – 13:15	Mid-Infrared Fiber-Based Optical Comb P. Maddaloni (CNR-INOA, Naples, Italy)	
13:15 – 13:30	Silicon Based Photodetectors at 1.55 μm M. Casalino (CNR-IMM, Naples, Italy)	

Lunch Break 13:30 - 15:55
(Light Lunch at "Centro Congressi")

SESSION E2: Optofluidic Microsystems and Devices

Room: Auditorium

Chair: R. Ramponi (Dep. Physics Politecnico, Milan, Italy)

16.00 - 16:20

Non Linear Optical Manipulation in Living Cell (*Invited Paper*)

F. Pavone (University of Florence - LENS, Italy)

16:20 – 16:35

Fluorescence Detection by Metal-Clad Optical Leaky Waveguides

A. Minardo (Second University of Naples, Aversa, Italy)

16:35 – 16:50

Synergy Between Flow Cytometry and RT-PCR in the Study of Cancer Cells Apoptosis

A.M. Niculescu (University of Bucharest, Romania)

16:50 – 17:05

All Optical 3-D Trapping Through a Fiber Tweezer

I. Cristiani (Electronics Department, University of Pavia, Italy)

20:30 GALA DINNER

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09:30 – 09:40	INOA, 80 years since the foundation P. De Natale (Director of INOA-CNR, Italy)	
SESSION G1: Optical Resonators		
Room: Azzurra	Chair: P. De Natale (CNR-INOA and LENS, Florence, Italy)	
09:40 – 10:00	Linear and Nonlinear Processes in Crystalline Whispering Gallery Mode Resonators: Physics and Applications (<i>Invited Paper</i>) L. Maleki (California Institute of Technology and OEwaves, Inc. Pasadena, USA)	
10:00 – 10:15	Radiation Pressure Cooling of a Micro-Mechanical Resonator in a High-Finesse Optical Cavity T. Briant (Laboratoire Kastler Brossel, Paris, France)	
10:15 – 10:30	Design of Single-Mode Vertically Coupled Microring Resonators M. Kusko (IMT-Bucharest, Bucharest, Romania)	
10:30 – 10:45	Second Harmonic Generation in Patterned III-V Semiconductor WGM Micro-Disk P. Féron (ENSSAT-FOTON, Université de Rennes, France)	
10.45 – 11:00	Microracetrack Coupled-Resonator Optical Waveguides in Silicon Photonic Wires V. Passaro (Politecnico di Bari, Italy)	
Break 11:00 – 11:20		
SESSION H1: Nonlinear Optic Devices		
Room: Azzurra	Chair: L. Maleki (California Institute of Technology and OEwaves, Inc. Pasadena, USA)	
11.20 - 11:40	Domain Engineered Devices in Ferroelectrics for Beam Manipulation (<i>Invited Paper</i>) D. Scrymgeour (Sandia National Laboratories Surface and Interface Sciences, USA)	
11:40 – 12:00	Integrated Nonlinear Devices in PPLN (<i>Invited Paper</i>) H. Suche (University of Paderborn, Germany)	
12:00 – 12:15	Unveiling Quasi-Periodicity by Projection Phase Matching in Nonlinear Photonic Crystals A. Arie (Tel-Aviv University, Israel)	
12:15 – 12:30	Sub-Micron Periodic Structures in Lithium Niobate Crystals S. Grilli (CNR-INOA, Naples, Italy)	
12:30 – 12:45	Discrete Diffraction of Light within Optically Induced Superlattices in Lithium Niobate V. Shandarov (University of Control Systems and Radioelectronics, Tomsk, Russia)	
12:45 – 13:00	Fine Pitch Nonlinear Photonic Crystals in KTiOPO₄ for Second Harmonic Generation F. Laurell (Department of Physics, KTH - Sweden)	
13:00 – 13:15	Integrated Optical Sources Based on Raman Effects at a Glance L. Sirleto (CNR-IMM, Naples, Italy)	

Lunch Break 13:15 - 16:00
(Light Lunch at "Centro Congressi")

SESSION H2: Nonlinear Optic Devices

Room: Azzurra	Chair: F. Laurell (Departement of Applied Physics, KTH - Sweden)
16:00 – 16:20	UV Written Waveguides – Applications in Telecoms and Sensors (<i>Invited Paper</i>) P. Smith (University of Southampton, UK)
16:20 – 16:35	Linear Writing of Waveguides in Bulk Photorefractives B. Crosignani (University of L'Aquila, Italy)
16:35 – 16:50	Brigth Spatial Soliton Switching in a Photorefractive Interface J.A.A. Lucio (Facultad de Ingenieria, Mecanica, Eletrica y Electronica, Salamanca Spain)
16:50 – 17:05	Harmonic Conversion in Photorefractive Soliton Waveguides F. Pettazzi (Dep. of Energetica, University La Sapienza, Italy)
17.05 – 17:20	Mach-Zehnder Modulators Patterned on Sol-Gel and Polymer Materials with Poled Chromophores M. Dispenza (SELEX Sistemi Integrati, Rome, Italy)
17:20 – 17:35	Intracavity CW Difference-Frequency Generation of Tunable and Narrow-Linewidth IR Radiation P. Cancio (CNR-INOA, European Laboratory for Non-Linear Spectroscopy – LENS, Florence, Italy)
17:35 – 17:50	Propagation of Ultrashort Solitons in the Presence of Nonlinear Gain S.C.V. Latas (Dep. Physics, University Aveiro, Portugal)
17:50 – 18:05	Hafnium-Doped Lithium Niobate Crystals for Nonlinear Optics Applications I. Cristiani (Dep. of Electronics, University of Pavia, Italy)
18:05 – 18:20	Poling of Congruent Lithium Niobate Crystals with Surface Modification A.R. Poghosyan (Institute for Physical Research, Armenia)
20:30 GALA DINNER	

Wednesday 3rd, Oct.

Plenary Session IV - Room: Auditorium	
09:00 – 09:35	Improved Performance Three Dimensional Sensing and Visualization by Integral Imaging B. Javidi (University of Connecticut, USA – Distinguished Lecturer – Emeritus of LEOS)
SESSION I1: Micro-Optical Devices	
Room: Auditorium	Chair: E.G. Friedman (University of Rochester, USA)
09:40 – 10:00	Putting Fresnel optics inside an optical fibre (Invited Paper) J. Canning (University of Sydney, Australia)
10:00 – 10:20	New Frontiers in Adaptive Optics (Invited Paper) S.R. Restaino (Naval Research Laboratory, Albuquerque, USA)
10:20 – 10:35	Self-Aligned Polymer Micro-Lenses Fabrication for VCSEL Beam Shaping C. Levallois (LAAS-CNRS, Toulouse, France)
10:35 – 10:50	Simple Replication Techniques for Low Cost Diffractive Optical Elements D. Cristea (National Institute for Research and Development in Microtechnologies, Bucharest, Romania)
Break 11.00 - 11:20	
SESSION B2: Optical Microsystems and Devices	
Room: Auditorium	Chair: R. De La Rue (Glasgow University, UK)
11:20 – 11:40	On-Chip Optical Interconnects: Challenges and Critical Directions (Invited Paper) E.G. Friedman (University of Rochester, USA)
11:40 – 12:00	Silicon Nanocrystals Embedded in SiO₂: Optical and Transport Properties (Invited Paper) A. Nassiopoulou (IMEL/NCSR Demokritos, Athens, Greece)
12:00 – 12:15	Tunable Two-Dimensional Hexagonal Phase-Array in Domain Engineered Lithium Niobate M. Paturzo (CNR-INOVA, Naples, Italy)
12:15 – 12:30	Tunable Optical Filter Based on 2D-MMI Silicon Integrated Device R. Bernini (CNR-IREA, Naples, Italy)
12:30 – 12:45	Effects of Carrier Heating on Stimulated Brillouin Scattering in Semiconductors M. Singh (Technological Institute of Textile and Science, India)
12:45 – 13:00	Ultrafast Carrier Dynamics and Confined Acoustic Phonons in CdSe Nanorods A. Creti (CNR-IMM, Lecce, Italy)
Concluding Remarks 13:15 – 13:30	

Plenary Session IV - Room: Auditorium	
09:00 – 09:35	Improved Performance Three Dimensional Sensing and Visualization by Integral Imaging B. Javidi (University of Connecticut, USA – Distinguished Lecturer – Emeritus of LEOS)
SESSION D2: Applications of Optical Systems	
Room: Azzurra	Chair: J. Canning (University of Sydney, Australia)
09:40 – 9:55	Safe Infrared Eye Blinking Detector F. Lo Castro (CNR – Institute of Acoustics, Rome, Italy)
09:55 – 10:10	A Scanning Device for VIS-NIR Multispectral Imaging of Paintings R. Fontana (CNR-INOA, Florence, Italy)
10:10 – 10:25	LIBS System for Salt Detection on Electrical Insulators in High Voltage Lines S. Musazzi (CESI Ricerca, Milan, Italy)
10.25 – 10:40	Design of Integrated Planar Waveguide Optical Sensors for Hydrocarbon Monitoring F. Prudeniano (DIASS, Taranto, Italy)
Break 11:00 - 11:20	
SESSION D3: Applications of Optical Systems	
Room: Azzurra	Chair: B. Crosignani (University of L'Aquila, Italy)
11:20 – 11.35	An Optical Readout System for the Drag Free Control of the LISA Spacecrafts L. Di Fiore (INFN Naples Unit, Italy)
11:35 – 11:50	The Virgo 3-Km Interferometer for Gravitational Wave Detection E. Genin (European Gravitational Observatory, Cascina, Pisa, Italy)
11:50 – 12:05	Polymer-Based Chip for SPR Sensors P. Obreja (National Institute for R&D in Microtechnologies, Bucharest, Romania)
12:05 – 12:20	Extra Situ and In Situ Time Resolved Fluorescence Polarization Anisotropy of Flame Produced Nanoparticles A. Bruno (CNR-INFN and CNISM, Naples, Italy)
12.20 – 12:35	Use of SHI Irradiation in γ-In₂Se₃ Thin Films for PV Devices in Outer Space Application R. Sreekumar (Cochin University of Science and Technology, Cochin, India)
12:35 – 12.50	μ-Raman Spectroscopy and Photoluminescence in the Industrial Glass Production P. Galinetto (University of Pavia - CNISM, Italy)
12:50 – 13:05	All Solid-State Optical Switches Using Reversible Metal – Insulator Transition of VO₂ Thin Films A. Crunteanu (University of Limoges, France)
Concluding Remarks 13:15 – 13:30	

POSTER SESSION – 19:00 – 20:30 Sunday 30th September	
P01	Low-Temperature Luminescence of Rare-Earth Ions Doped in Disordered Crystals T. Tsuboi (Kyoto Sangyo University, Kyoto, Japan)
P02	Continuous In-Situ Measurements of Gases at the Fumarole “Soffionissimo” (Solfatara, Italy) R. Somma (INGV, Naples, Italy)
P03	Influence of Composition on the Electro-Optic Coefficients of Mg-Doped Lithium Niobate D. Grandò (Dep. of Electronics, University of Pavia, Italy)
P04	An Integrated Optical Electromagnetic Field Sensor M. Medugno (CNR-IMM, Naples, Italy)
P05	Soft-Matter Photonics on Preferentially Etched Silicon B. Bellini (CNR-IMM, Rome, Italy)
P06	Thermo-Optic Effect in Silicon Slot Waveguides V. Passaro (CNISM - Politecnico di Bari, Italy)
P07	Applied Optical Systems in Animal Production P. Negretti (Dep. of Animal Production, University of Tuscia, Viterbo, Italy)
P08	Optical Choppers Revisited V.-F. Duma (Aurel Vlaicu University of Arad, Romania)
P09	Liquid Crystal: from Millimeter Waves to Terahertz R. Beccherelli (CNR-IMM, Roma, Italy)
P10	Investigation of photorefractive spatial bright soliton in lithium niobate by interferometric technique L. Miccio (CNR-INOVA, Naples, Italy)
P11	Structural Stable Singular Array Ya. Izdebskaya (Dep. of Physics, Taurida National V.Vernadsky University, Ukraine)
P12	Thermal Tunability of Liquid Crystal Infiltrated Si/Air Planar Bragg Gratings A. Marino (Dept. of Physics, Federico II Univ. of Naples)
P13	Optical Detection of PNA-DNA Hybridization: A Promise for the Future L. De Stefano (CNR-IMM, Naples, Italy)
P14	Porous Silicon Surface Properties Modification by Polymer Infiltration L. De Stefano (CNR-IMM, Naples, Italy)
P15	Prospect of Raman Emission in Silicon Quantum Dot at 1.5 Micron A. Ferrara (CNR-IMM, Naples, Italy)
P16	Prospect of Raman Emission in Niobium Phosphate Glasses A. Ferrara (CNR-IMM, Naples, Italy)
P17	Optimisation of a Single Beam Technique for the Third Order Nonlinear Properties of Soft Materials C. D’Addio (CNR-IMM, Naples, Italy)
P18	Shift of Application Point of Angular Momentum in the Area of Elementary Polarization Singularity I. Mokhun (Chernivtsi university, Chernivtsi, Ukraine)
P19	Patterned Lithium Niobate Thin Films Preparation by Photosensitive Sol-Gel A.R. Poghosyan (Institute for Physical Research, Armenia)