

MONDAY - JUNE 20, 2016

08h30-09h00	Registration CEN2016	
09h00-09h05	Opening - Welcome	
	Nanophotonics Chair: Antonio García-Martín (IMM-CNM-CSIC, Spain)	
09h05-09h45	Juerg Leuthold (ETH Zürich, Switzerland) <i>The Ultimate Limit of Photonic Scaling</i>	K
09h45-10h00	Mattia Signoretto (ICMUV-UV, Spain) <i>Integration of metal nanoparticles in polymer waveguides: enhancement and redirection of light in photonic structures</i>	O
10h00-10h15	Antonio Consoli (ICMM-CSIC, Spain) <i>Emission regimes of random lasers with spatially localized feedback</i>	O
10h15-10h30	José Manuel Llorens (IMM-CNM-CSIC, Spain) <i>Amplifying the zero-th order mode absorption in the ultra-thin film regime</i>	O
10h30-11h30	Coffee Break - Poster Session & Instrument Exhibition	
	Nanoscale dynamics Chair: Álvaro Blanco (ICMM-CSIC, Spain)	
11h30-12h10	Niek Van Hulst (ICFO, Spain) <i>Femtosecond dynamics at the nanoscale: talking to antenna complexes one-by-one</i>	K
12h10-12h25	Nuno Miguel Santos Teixeira (UAM, Spain) <i>Light Emission Statistics as a Local Probe for Structural Phase Switching</i>	O
12h25-12h40	Mario Zapata Herrera (CSIC-UPV/EHU, Spain) <i>Optical response and electron dynamics of charged plasmonic nanoparticles</i>	O
12h40-12h55	Alberto Jiménez-Solano (ICMS-US-CSIC, Spain) <i>Nanosources shine on demand thanks to a deterministic control of the local density of states</i>	O
12h55-13h10	Manuel Marqués (UAM, Spain) <i>Dynamics of electric dipoles in fluctuating random electromagnetic fields</i>	O
13h10-15h00	Cocktail Lunch offered by CEN2016	
	New materials for photonics Chair: Pablo Sanchis (NTC-UPV, Spain)	
15h00-15h40	Dries Van Thourhout (Ghent University - IMEC, Belgium) <i>New Materials for Multifunctional Photonic ICs</i>	K
15h40-16h10	Sonia García Blanco (University of Twente, The Netherlands) <i>High-index contrast waveguides in potassium double tungstates: towards rare-earth ion doped on-chip integrated photonics</i>	I
16h10-16h25	Felix Eltes (IBM Research - Zurich, Switzerland) <i>Low-loss, Nonlinear BaTiO₃-Si-Photonic Waveguide Structures</i>	O
16h25-16h40	Pau Castera (NTC-UPV, Spain) <i>Optimization of a hybrid BaTiO₃/Si Waveguide Structure for Electro-optic Modulation</i>	O
16h40-16h55	Nerea Zabala (UPV/EHU, CFM and DIPIC, Spain) <i>Ultrafast control of plasmonic nanoantennas driven by hot-spot induced phase-transition in VO₂</i>	O
16h55-17h30	Coffee Break - Poster Session & Instrument Exhibition	
	Optoelectronics Chair: Niek Van Hulst (ICFO, Spain)	
17h30-18h00	Agustín Mihi (ICMAB-CSIC, Spain) <i>Low Cost and Large Area Photonic Architectures for Enhanced Light Management in Optoelectronic Devices</i>	I
18h00-18h15	Pablo Aitor Postigo (IMM-CNM-CSIC, Spain) <i>Near thresholdless laser operation at room temperature</i>	O
18h15-18h30	Fradkin Zeev (Sami Shamoan college of Engineering, Israel) <i>An RCE based NIR PD using a resonant cavity with dual grating mirrors</i>	O
18h30-18h45	Alberto Maulu (ICMUV-UV, Spain) <i>Solution-Processed QD Solid by Doctor Blading Based on PbS QD Nanoinks for the Fabrication of Photodetectors at Telecom Wavelengths</i>	O
18h45-19h00	José Sánchez López (Universitat Rovira i Virgili, Spain) <i>Inverted BHJ solar cells based on PTB7:PC₇₀BM using TiO_x as electron transport layer</i>	O

TUESDAY - JUNE 21, 2016

	Plasmonics Chair: Lluís Marsal (Universitat Rovira i Virgili, Spain)	
09h05-09h45	Romain Quidant (ICFO, Spain) <i>Heterogeneous nanoplasmics for quantum optics and biosensing</i>	K
09h45-10h00	Nicolo Maccaferri (CIC nanoGUNE, Spain) <i>Enhanced and tunable magneto-optical activity in magnetoplasmonic crystals</i>	O
10h00-10h15	Blanca Caballero (IMM-CNM-CSIC, Spain) <i>Boosting Sensing Performance Using Hybrid Magnetoplasmonic Nanohole Arrays</i>	O
10h15-10h30	Yael Gutiérrez Vela (Universidad de Cantabria, Spain) <i>Rhodium Nanocubes for plasmonics in the UV range</i>	O
10h30-11h00	Pablo Alonso (CIC nanoGUNE, Spain) <i>Ultra-confined acoustic THz graphene plasmons</i>	I
11h00-11h30	Coffee Break - Poster Session & Instrument Exhibition	
	Optical forces and phonons Chair: Alejandro Martínez (NTC-UPV, Spain)	
11h30-12h10	Juan Carlos Cuevas (UAM, Spain) <i>Near-field radiative heat transfer at the nanoscale</i>	K
12h10-12h25	Ricardo Abraham Ekeröth (IMM-CNM-CSIC, Spain) <i>Optical forces exerted on nanowire dimers: New characterization of Plasmons</i>	O
12h25-12h40	Jorge Luis Hita (UAM, Spain) <i>Arrested dimer's diffusion by self-induced back-action optical forces</i>	O
12h40-12h55	Victoria Esteso (ICMS-US-CSIC, Spain) <i>Theoretical prediction of levitation due to Casimir force of plane-parallel systems made of realistic materials</i>	O
12h55-13h25	Daniel Navarro-Urríos (ICN2, Spain) <i>Self-sustained coherent phonon generation in optomechanical crystals</i>	I
13h25-15h00	Lunch*	
	Nanofabrication Chair: Pablo Aitor Postigo (IMM-CSIC, Spain)	
15h00-15h40	Anna Fontcuberta i Morral (EPFL, Switzerland) <i>Photonics and applications with semiconductor nanowires</i>	K
15h40-15h55	Estela Baquedano Perálvarez (IMM-CNM-CSIC, Spain) <i>Fabrication of low-cost and high aspect ratio nanowires and 2D nanostructures by soft lithography for nanophotonic devices</i>	O
15h55-16h10	Sofía Rodríguez (Nanoscribe GmbH, Germany) <i>3D Printing Sets New Standards in Microfabrication</i>	O
16h10-16h25	Ángel Mateos Sánchez (ICMM-CSIC, Spain) <i>Coupled random laser resonators in DNA thin films: fabrication and characterization</i>	O
16h25-16h40	Verónica Montes-García (Universidad de Vigo, Spain) <i>Supramolecular mediated self-assembly of gold nanoparticles for selective SERS detection</i>	O
16h40-16h55	Ángela Barreda Gómez (Universidad de Cantabria, Spain) <i>Using linear polarization for sensing with core-shell nanostructures</i>	O
16h55-17h25	Beatriz Hernández Juárez (IMDEA Nanociencia / UAM, Spain) <i>Synthesis and optical trapping of colloidal quantum dot-based structures</i>	I
17h25-17h55	Coffee Break - Poster Session & Instrument Exhibition	
17h55-19h15	Poster Session	
21h30	Conference Dinner La Malquerida C/Polo y Peyrolón, nº 53 46021 Valencia	

*not included in the registration fee

Keynote (K): 40 minutes / Invited (I): 30 minutes / Oral (O): 15 minutes

WEDNESDAY - June 22, 2016

Sensing		Chair: Jaime García (NTC-UPV, Spain)
09h30-09h45	Raffaele Caroselli (NTC-UPV, Spain) <i>Biosensors based on nanoporous silicon multilayer structures</i>	O
09h45-10h00	Francis Gallego-Gómez (ICMM-CSIC, Spain) <i>Photonic colloidal crystals as nano-sand: lab-on-a-chip to study water in granular media</i>	O
10h00-10h15	Elisabet Xifré-Pérez (Universitat Rovira i Virgili, Spain) <i>Photoluminescent porous alumina particles for the development of label-free biomarkers</i>	O
10h15-10h30	José María Miranda Muñoz (ICMS-US-CSIC, Spain) <i>Tailoring disorder for absorption enhancement in bifacial dye-sensitized solar cells</i>	O
10h30-10h45	Chris Eckstein (Universitat Rovira i Virgili, Spain) <i>Fluid Imbibition-Coupled Laser Interferometry: a highly sensitive optical technique for nanometrology</i>	O
10h45-11h00	Francisco Prats (NTC-UPV, Spain) <i>Ultra-Fast Spectral Optical Analysis of Nanophotonic Structures</i>	O
11h00-11h30	Coffee Break - Poster Session & Instrument Exhibition	
New phenomena		Chair: Juan José Sáenz (DIPC, Spain)
11h30-12h10	Luis Martín Moreno (ICMA-UZ-CSIC, Spain) <i>Quantum nanophotonics in waveguides</i>	K
12h10-12h40	Francisco José Rodríguez Fortuño (King's College London, UK) <i>Spin-orbit interactions of light in evanescent waves: from theory to experiments</i>	I
12h40-12h55	Alba Espinosa (NTC-UPV, Spain) <i>Experimental and numerical demonstration of a plasmonic nanoantenna embedded in a silicon waveguide gap</i>	O
12h55-13h10	Roberto Fenollosa (ITQ-UPV-CSIC, Spain) <i>The influence of the internal structure in the resonant properties of poly-crystalline silicon microspheres</i>	O
13h10-13h25	José Ángel Pariente (ICMM-CSIC, Spain) <i>Fano resonance reveals Percolation in photonic crystals</i>	O
13h25-13h40	Mauro Brotóns i Gisbert (ICMUV-UV, Spain) <i>Morphological manipulation of the luminescent response of atomically thin Indium Selenide nanosheets</i>	O
13h40	Concluding Remarks	

Keynote (K): 40 minutes / Invited (I): 30 minutes / Oral (O): 15 minutes

Exhibitors



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PROGRAMME

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