

Program for EMN Meeting on Photonics 2016		
Monday September 19		
15:00-18:00	Onsite registration & Sign up	
Tuesday September 20		
Room A		
09:00-09:05	Opening Ceremony	
Keynote Chair: Slobodan Mitic		
09:05-9:35	A01: From Femtosecond to Millisecond Observation of Photoevents within MOFs: Relevance to Nanophotonics and Nanocatalysis	Abderrazzak Douhal University of Castilla-La Mancha, Spain
Session: Light-Matter Interaction I Chair: Barbara Hopf		
9:35-10:00	A02: Spectroscopic evaluation of microparticle properties grown in reactive plasmas	Slobodan Mitic Justus-Liebig-Universität Giessen, Germany
10:00-10:25	A03: Novel photon-avalanche-like optical processes in crystals and nanostructures: nonlinear excitation and ultrafast all-optical switching	Evgeny Yu. Perlin ITMO University, Russia
10:25-10:50	A04: High-energy femtosecond fibre laser based on nitride saturable absorber	Fernando B. Naranjo GRIFO, University of Alcala, Spain
10:50-11:15	Session Break	
Keynote Chair: Slobodan Mitic		
11:15-11:45	A05: High Conversion Efficiency Perovskite/crystalline Silicon Tandem Solar Cells	Charles Surya The Hong Kong Polytechnic University, Hong Kong
Session: Electro-optic and Opto-electronic Devices I Chair: Faezeh Fesharaki		
11:45-12:10	A06: Developments and Applications of Stable Optical Phase-interrogation Instrument	Ruey-Ching Twu Southern Taiwan University of Science and Technology, Taiwan
12:10-12:35	A07: Pulse transient Hot Strip technique— a unique method for measuring anisotropic thermal transport properties in stacked nm-thick layers	Mattias Gustavsson Hot Disk AB, Sweden
12:35-13:00	A08: Opto-acoustic interactions in integrated photonic circuits	Birgit Stiller The University of Sydney, Australia
13:00	Lunch Break	

Tuesday September 20**Room A****Session: Silicon Photonics I Chair: Leonid Khriachtchev**

14:30-14:55	A09: Design & Analysis of Microring Resonator based Integrated Optic Devices	Sabita Brata Dey College of Engineering & Management, India
14:55-15:20	A10: Scalable Transparent Power Monitor Enabling Feedback Control of Complex Photonic Circuits	Marco Carminati Politecnico Di Milano, Italy
15:20-15:45	A11: Erasable grating couplers for integrated photonic circuits	Milan Milosevic University of Southampton, UK
15:45-16:10	A12: Sensitive optical micro-machined ultrasound sensors based on a silicon photonic ring resonator on an acoustical membrane	Wouter Westerveld Applus RTD and Delft University of Technology, The Netherlands
16:10-16:35	Session Break	
16:35-17:00	A13: Short Reach Data Link Transmitter Figures of Merit and a Monolithic CMOS Compatible Photonic/Electronic Platform	Douglas Gill IBM T. J. Watson Research Center, USA
Session: Functional Nitrides for Lighting Applications Chair: Iman S Roqan		
17:00-17:25	A14: MOCVD growth of GaN/AlGaIn on β -Ga ₂ O ₃ substrates for blue/UV LED application	Akito Kuramata Tamura Corporation, Japan
17:25-17:50	A15: III-nitride quantum wells on conductive, transparent (-201)-oriented β -Ga ₂ O ₃ , for high efficiency Vertical light-emitting devices	Iman S Roqan King Abdullah University of Science and Technology, Saudia Arabia
17:50-18:15	A16: On-glass and flexible GaN-based light emitting diodes	Jun Hee Choi Samsung Electronics Co., Ltd. Korea
18:15-18:40	A17: Next Generation LEDs for Solid State Lighting	Ian Ferguson Missouri University of Science and Technology, USA
18:40-19:05	A18: Prospects for Semi-polar 1122 visible Light emitting diodes	Peter James Parbrook University College Cork, Ireland
19:20	Dinner Social	

Wednesday September 21

Room B

Session: Material Development for Photonics I

Chair: Jean-Charles Beugnot

09:00-09:25	B01: Sol-gel derived microstructured fibers doped with active optical ions for the achievement of optical amplifiers and fiber lasers	Mohamed Bouazaoui Université de Lille, France
09:25-09:50	B02: Novel glasses and glass-ceramics for photonics	Laetitia Petit Tampere University of Technology, Finland
09:50-10:15	B03: Development of recording media with artificial magnetic lattices for magnetic hologram memory	Yuichi Nakamura Toyohashi University of Technology, Japan
10:15-10:40	B04: Functional inorganic nanoparticles for biomedical and optoelectronic applications	Keisuke Sato Tokyo Denki University, Japan
10:40-11:05	Session Break	
Session: Material Development for Photonics II		
Chair: Laetitia Petit		
11:05-11:30	B05: Opto-acoustic coupling and Brillouin phenomena in subwavelength optical fibers	Jean-Charles Beugnot FEMTO-ST Institute, CNRS, France
11:30-11:55	B06: Effect of partial crystallization on the thermal, structural and luminescence properties of Er ³⁺ -doped phosphate glasses	Pablo Lopez-Isoa DISAT- Politecnico di Torino, Italy
11:55-12:20	B07: Transparent Metamaterial with Extremely High Refractive Index for Terahertz Applications	Koki Ishihara Ibaraki University, Japan
12:20-12:45	B08: Femtosecond laser structuring with structured light in tailored phosphate glasses	Yannick Petit University of Bordeaux, France
13:00	Lunch Break	

Wednesday September 21		
Room B		
Session: Electro-optic and Opto-electronic Devices II		Chair: Ruey-Ching Twu
14:30-14:55	B09: High sensitivity, multi-function interferometer scheme for biosensor applications	Kyuman Cho Sogang University, Korea
14:55-15:20	B10: A new class of traveling wave electro-optic and opto-electronic devices for super broadband applications	Faezeh Fesharaki Polytechnique Montr éal, Canada
15:20-15:45	B11: Ultra-high gain resonant tunneling diode photodetectors for telecommunication and MIR-wavelength applications	Fabian Hartmann University of Würzburg, Germany
15:45-16:10	B12: Welding of metal nanowires by ion beam irradiation	Shehla Honey University of Punjab, Pakistan
16:10-17:00	Session Break & Poster	
Session: Electro-optic and Opto-electronic Devices III		Chair: Kyuman Cho
17:00-17:25	B13: Sol-gel silica waveguide for polymer modulators and biophotonic sensors	Yasufumi Enami Kochi University of Technology, Japan
17:25-17:50	B14: Stable and portable optofluidic laser device for sensor applications	Fernando Lahoz University of La Laguna, Spain
17:50-18:15	B15: Optical properties optimization of TCO/metal-nanofilm multilayers for use as high performance transparent electrodes in photovoltaic devices	Theodoros Dimopoulos AIT Austrian Institute of Technology, Austria
19:00	Dinner Social	

Wednesday September 21**Room C**

Session: Mid-infrared Photonics Chair: Peng-Chun Peng		
09:00-09:25	C01: Narrow-gap Semiconductor Photodiodes for Mid-Infrared Spectral Range: Present and Future	Ekaterina Kunitsyna Ioffe Physical-Technical Institute, Russia
09:25-09:50	C02: Plasmonic nanoantennas for Mid-Infrared applications	Angelo Bozzola Italian Institute of Technology, Italy
09:50-10:15	C03: Coherent control of orbital wavepackets of impurity atoms in silicon	Steven Chick University of Surrey, UK
10:15-10:40	C04: Mid-infrared liquid spectroscopy using chalcogenide optical waveguides	Vinita Mittal University of Southampton, UK
10:40-11:05	Session Break	
Session: Photonic Communications Chair: Ekaterina Kunitsyna		
11:05-11:20	C05: Microwave photonic technologies for next-generation wireless communication networks	Peng-Chun Peng National Taipei University of Technology, Taiwan
11:20-11:45	C06: Towards High-speed, Low-cost, Low-power Ethernet with Packet-Optical Engine	Yang Yue Juniper Networks, USA
11:45-12:10	C07: Data center interconnects based on IMDD optical links and efficient DSP	Jinlong Wei ADVA Optical Networking SE, Germany
13:00	Lunch Break	

Wednesday September 21**Room C****Session: Organic Photonics****Chair: Rishi Kant**

14:30-14:55	C08: Low power Up-conversion Nano-Materials for Solar Applications and Bio-theranostics	Angelo Monguzzi University of Milano Bicocca, Italy
14:55-15:20	C09: Photonic crystal nano-cavity versus plasmonic nano-cavity	Ali Adawi University of Hull, UK
15:20-15:45	C10: Protection of Densely Populated Excited Triplet State Ensembles Against Deactivation by Molecular Oxygen	Mikhail Filatov Trinity College Dublin, Ireland
15:45-16:10	C11: Effects of boron and silver ion implantation in PMMA composite films for photonic applications	Taras Kavetsky The John Paul II Catholic University, Poland
16:10-17:00	Session Break & Poster	
Session: General Chair: Angelo Monguzzi		
17:00-17:25	C12: Wavefront Engineering in Photolithography: Optical Interference Manipulation for Increased Depth of Focus and Resolution Enhancement—Theoretical Analysis of Levenson Phase Masks	Rishi Kant University of Botswana, Botswana
17:25-17:50	C13: Spatio-temporal visualization of phonon and plasmon dynamics in low-dimensional materials	Giovanni Maria Vanacore École Polytechnique Fédérale de Lausanne, Switzerland
17:50-18:15	C14: Regularization and decimation pseudolikelihood approaches to statistical inference in XY -spin models	Payal Tyagi CNR-NANOTEC, Italy
18:15-18:40	C15: Replica Symmetry Breaking in Disordered Photonics	Fabrizio Antenucci CNR-NANOTEC, Institute of Nanotechnology, Italy
19:00	Dinner Break	

Thursday September 22**Room B****Session: Novel Photonic Devices I****Chair: Shin-ichi Zaitzu**

09:00-09:25	B16: Formation of Superlattice of Colloidal Quantum Dots for Solar Cell Application	Kohki Mukai Yokohama National University, Japan
09:25-09:50	B17: Application of PA-LCoS Modulators in Multilevel Phase Elements and in Holographic Data Storage	Francisco Javier Martínez Guardiola Universidad de Alicante, Spain
09:50-10:15	B18: Multiple Combined Amplitude Modulated Lasers for the generation of 3D Hyperphotos for terrestrial, underwater and nuclear environments	Massimiliano Guarneri FSN-TECFIS-DIM ENEA C.R. Frascati, Italy
10:15-10:40	B19: Fractional Erbium laser in the treatment of photoaging: randomized comparative, clinical and histopathological study of ablative (2940nm) vs. non-ablative (1540nm) methods after 3 months	Juliano Borges Universidade Federal do Rio de Janeiro, UFRJ, Brazil
10:40-11:05	Session Break	
Session: Novel Photonic Devices II		Chair: Kohki Mukai
11:05-11:30	B20: Optical angular manipulation for applications in biophysics	Francesco Pedaci CBS, CNRS, France
11:30-11:55	B21: Molecular optical modulation of a continuous-wave laser based on an intracavity phase-matched process	Shin-ichi Zaitzu Kyushu University, Japan
11:55-12:20	B22: All optical tunable delay line and its applications	Zhefeng Hu University of Electronic Science and Technology of China, China
12:20-12:45	B23: Bragg stacks for enhanced upconversion: theoretical optimization and experimental characterization of photonic effects	Clarissa L. M. Hofmann Fraunhofer Institute for Solar Energy Systems ISE, Germany
13:00	Lunch Break	

Thursday September 22

Room B

Session: Silicon Photonics II

Chair: Sabita Brata Dey

14:30-14:55	B24: Continuous-wave laser annealing of silicon-rich silicon oxide films	Leonid Khriachtchev University of Helsinki, Finland
14:55-15:20	B25: Integrated networks on SOI using MDM supported by waveguide arrays	Philippe Velha Istituto di Tecnologie della Comunicazione, Italy
15:20-15:45	B26: Silicon Photonics for Micro- and Millimeter Wave Signal Generation	Juan José Vegas Olmos The Technical University of Denmark, Denmark
15:45-16:10	B27: Silicon Optical Sensor Integrated with Echelle Grating Spectrometer	Mahmoud S. Rasras Masdar Institute of Science and technology, Arab Emirates
16:10-16:35	Session Break	
16:35-16:50	B28: Backscattering Noise and Polarization Noise in Resonant Photonic Crystal Fiber Regular Sensor	Lishuang Feng Beihang University, China
16:50-17:15	B29: Silicon optical matrix processor	Lin Yang Institute of Semiconductors, CAS, China
Session: Novel Photonic Devices & Photonics for Sensing		Chair: Philippe Velha
17:15-17:40	B30: Lithium Niobate: recent advances in optofluidics for sensing applications	Annamaria Zaltron University of Padua, Italy
17:40-18:05	B31: Optical Coherence Tomography Distance Sensor for Biomedical Micro-manipulation	Cheol Song DGIST, Korea
18:05-18:30	B32: Advanced photonics transducers and readout platforms for label-free biosensing: Applications to Point of Care devices	Miguel Holgado Universidad Politécnica de Madrid, Spain
18:30-18:55	B33: PT-axisymmetry photonic nanostructure for light concentration	Muriel Botey Universitat Politècnica de Catalunya, Spain
19:00	Dinner Social	

Thursday September 22

Room C

Session: Graphene Photonics

Chair: Aurelian Popescu

09:00-09:25	C16: Graphene-based efficient light modulation	Sangin Kim Ajou University, Korea
09:25-09:50	C17: Graphene-based absorbers: from microwave to visible frequencies	Marco Grande Politecnico di Bari, Italy
09:50-10:15	C18: Chiral Graphene Quantum Dots	Nozomu Suzuki Rikkyo University, Japan
10:15-10:40	C19: Ultrafast nonlinear optical devices based on 2D nanomaterials	Yong-Won Song Korea Institute of Science and Technology, Korea
10:40-11:05	Session Break	
11:05-11:30	C20: Active plasmonics in graphene using surface acoustic waves	Jorge Pedrós Universidad Politécnica de Madrid, Spain
11:30-11:55	C21: Optical and magneto-optical effects in graphene	Haixia Da Nanjing University of Posts and Telecommunications, China
Session: Chalcogenide Photonics		
Chair: Marco Grande		
11:55-12:20	C22: Chalcogenide amorphous thin films for plasmonics	Aurelian Popescu National Research and Development Institute for Optoelectronics, Romania
12:20-12:45	C23: Gallium lanthanum sulfide glass waveguides for active and passive applications in the mid-infrared	Jesse Frantz US Naval Research Laboratory, USA
13:00	Lunch Break	

Thursday September 22

Room C

Session: Light-Matter Interaction II

Chair: Evgeny Yu. Perlin

14:30-14:55	C24: Glue-induced Birefringence: Challenges of Surface-attached Fiber Bragg Grating Strain Sensors	Barbara Hopf Hochschule für Angewandte Wissenschaften, Germany
14:55-15:20	C25: Functional structures based on chalcogenide glasses obtained via nanocomposite techniques and their applications	Elena Achimova Academy of Sciences of Moldova, Moldova
15:20-15:45	C26: Relationship between phase measured using a scattering SNOM (s-SNOM) and the Local Density of Optical States (LDOS)	Remi Vincent Université de technologie de Troyes, France
15:45-16:10	C27: Diffracted rays controlled by magneto-optical devices	Alberto Tufaile University of Sao Paulo, Brazil
16:10-16:35	Session Break	
16:35-16:50		
16:50-17:15		
17:15-17:40		
17:40-18:05		
19:00	Dinner Social	
Sept.23	One-Day Excursion: Nature, Culture, and Collaboration.	

Wednesday September 21

16:10-17:00

Poster Session

P01: Laser patterned silicon wafer substrate: Hydrophilic surface for surface-enhanced laser-induced breakdown spectroscopy analysis of a single water droplet	Song-Hee Han Mokpo National Maritime University, Korea
P02: Organic/Silicon Hybrid Near-Infrared Photodetector	Hany Afify Cairo University, Egypt
P03: Anisotropic Dye Molecules Aligned by Masked Photopolymerization	Miho Aizawa Tokyo Institute of Technology, Japan
P04: Dispersion compensating double cladding square lattice PCF	Soeun Kim Advanced Photonics Research Institute, Korea
P05: Nonlinear Optical Effect by Photoinduced Molecular Reorientation of Polymer-stabilized Oligothiophene-doped Liquid Crystals	Koji Usui Tokyo Institute of Technology, Japan
P06: Two-dimensional Molecular Alignment over Large-area Generated by Masked Photopolymerization of Mesogenic Monomer	Kyohei Hisano Tokyo Institute of Technology, Japan
P07: Mechanical analysis of flexible film surface by diffraction grating	Motoyuki Fukuhara Tokyo Institute of Technology, Japan
P08: Fabrication of Well-Ordered Liquid Crystalline Polymer Films by Masked Photopolymerization with Non-Polarized Light	Yosuke Kurata Tokyo Institute of Technology, Japan
P09: Fabrication of dimming film by photoinduced molecular reorientation of liquid crystals	Erika Katayama Tokyo Institute of Technology, Japan
P10: Direct synthesis and characterizations of graphene on toroidal microcavities	Jaehyun Park Korea Institute of Science and Technology, Korea
P11: Ultrafast Electron Diffraction: a powerful tool for organic-inorganic nanomaterials characterization	Francesco Pennacchio École Polytechnique Fédérale de Lausanne, Switzerland
P12: High Sensitive LPFG Magnetic Field Sensor Based on Dual-Peak Resonance	Zhengtian Gu University of Shanghai for Science and Technology, China