

Program for 2017 EMN Meeting on Photonics & Collaborative Conference on Plasma Physics		
15:00-17:30	Monday September 4 Onsite registration & Sign up	
Tuesday September 5 Rakoczi I+II Room A		
08:25-08:35	Opening Ceremony	
Session: Graphene photonics Chair: Evgeny Yu. Perlin		
08:35-09:00	A01: Photogalvanic spectroscopy of Dirac Fermions	Sergey Ganichev University of Regensburg, Germany
09:00-09:25	A02: Nonlinear optical functionalities of graphene-covered waveguides	Nathalie Vermeulen Brussels Photonics Team, Vrije Universiteit Brussel, Belgium
09:25-09:50	A03: Tailorable Infrared Laser Using Graphene-Bilayer Metasurfaces	Pai-Yen Chen Wayne State University, USA
09:50-10:15	A04: Magnetized Relativistic Pulsar Winds	Yu-Qing Lou Tsinghua University, China
10:15-10:35	Session Break	
Session: Light-Matter Interaction I Chair: Tokuei Sako		
10:35-11:00	A05: Novel Transient Nonlinear Optical Effect in Solids	Evgeny Yu. Perlin ITMO University, Russia
11:00-11:25	A06: Optical rogue waves in stimulated Raman scattering in photonics crystal fibres	Sergey Ponomarenko Dalhousie University, Canada
11:25-11:50	A07: Progress on femtosecond laser writing in chalcogenide glasses	David Le Coq Université de Rennes I, France
11:50-12:15	A08: Engineered Germanium Nanostructures for photonics in the mid-infrared	Leonetta Baldassarre Sapienza University of Rome, Italy
12:15	Lunch Break	

Tuesday September 5
Rakoczi I+II Room A

Session: Photonics for Sensing Chair: László Nagy

13:30 -13:55	A09: Photonics-Based Terahertz-Wave Imaging Using Novel Hetero-Barrier Diode	Hiroshi Ito Kitasato University, Japan
13:55 -14:20	A10: Cellular-resolution optical coherence tomography for real-time virtual biopsy on human skin	Sheng-Lung Huang National Taiwan University, Taiwan
14:20-14:45	A11: Trace-gas spectroscopy of methane on a silicon photonic chip	Eric J. Zhang IBM T. J. Watson Research Center, USA
14:45-15:10	A12: Development of Sensitivity Improved Phase Interrogated Polarimetry	Ruey-Ching Twu Southern Taiwan University of Science and Technology, Taiwan
15:10-15:35	A13: New Applications on Trace-Gas Sensing by Laser Spectroscopy	Ming-Fang Huang NEC Laboratories America, Inc., USA
15:35-15:55	Session Break	
Session: Light-Matter Interaction II Chair: Sergey Ponomarenko		
15:55-16:20	A14: Photon Propagation and Energy Deposition in Turbid media with Application in Laser Dermatology	Bin Chen Xi'an Jiaotong University, China
16:20-16:45	A15: Photosynthetic reaction center protein photonics	László Nagy University of Szeged, Hungary
16:45-17:10	A16: Plasmonic nano-gaps for light-matter interactions	Jean-Sebastien Bouillard University of Hull, UK
17:10-17:35	A17: The coupled Maxwell-Schrödinger approach to photonics applications	Tokuei Sako Nihon University, Japan
17:35-18:00	A18: Bragg induced power oscillations in PT symmetric periodic photonic structures	Solange Bessa Cavalcanti Universidade Federal de Alagoas, Maceió, AL, Brazil
18:00-18:25	A19: Optical manipulation of particles and cells using fiber probes	Baojun Li Jinan University, Guangzhou, China
18:25	Dinner Social	

**Wednesday September 6
Rakoczi I Room A**

Session: Functional Nitrides for Lighting Applications Chair: Iman S Roqan, Natalia V. Kamanina

08:35-09:00	A20: Materials selection for high efficiency visible and terahertz photonic devices	Sharath Sriram RMIT University, Australia
09:00-09:25	A21: High efficiency deep UV LEDs for sterilizations	Iman S Roqan King Abdullah University of Science and Technology, Saudia Arabia
09:25-09:50	A22: Introduction of a glass-based thin film electrode: its application to various types of light-emitting devices	Tae Geun Kim Korea University, Korea
09:50-10:15	A23: Chalcogenide glasses for far infrared	Catherine Boussard Université de Rennes 1, France
10:15-10:40	A24: GaN-based resonant-cavity light-emitting devices featuring a Si-diffusion-defined current blocking layer	Pinghui Sophia Yeh National Taiwan University of Science and Technology, Taiwan
10:40-11:00	Session Break	

Session: Electro-optic and Opto-electronic Devices Chair: Iman S Roqan

11:00-11:25	A25: Nanostructured materials as the key elements for optoelectronics	Natalia V. Kamanina Vavilov State Optical Institute, St.-Petersburg Electrotechnical University, Russia
11:25-11:50	A26: Improving two-color laser performances with time-delayed feedback	Martin Virte B-Phot, Brussels Photonics Team, Belgium
11:50-12:15	A27: Ultra-Broadband Mach-Zehnder Hybrid Electro-Optic Polymer/Sol-Gel Silica Waveguide Modulators	Yasufumi Enami Kochi University of Technology, Japan
12:15	Lunch Break	

Wednesday September 6**Rakoczi I Room A****Session: Novel trends in magneto-photonics I Chair: Vasily Temnov**

13:30 -13:55	A28: Valley Coherence and Magnetic-Field-Induced Rotation of the Linear Polarized Light Emission from Monolayer WS2	Steffen Michaelis de Vasconcellos University of Münster, Germany
13:55 -14:20	A29: Magnetic control of chiroptical plasmonic surfaces and transparent solar radiators with magnetoplasmonics	Alexandre Dmitriev University of Gothenburg, Sweden
14:20-14:45	A30: Structural-dependent transmission magneto-optic phenomena covered by a magnetic ultrathin film: gallium nitride	Chiung-Wu Su National Chiayi University, Taiwan
14:45-15:10	A31: Inorganic magnetofluorescent nanoparticles with wavelength tunable luminescence	Keisuke Sato Tokyo Denki University, Japan
15:10-15:40	Poster Session	

Session: Novel trends in magneto-photonics II Chair: Alexandre Dmitriev

15:40-16:05	A32: Nonlinear magneto-plasmonics in hybrid metallic multilayers	Ilya Razdolski Fritz Haber Institute of the Max Planck Society, Berlin, Germany
16:05-16:35	A33: Ultrafast magneto-elastic interactions in ferromagnetic thin films and complex multilayer structures	Vasily Temnov CNRS, Le Mans, France
16:35-17:00	A34: Magnetoacoustic excitations in thin films and membranes	Peter Gaal University of Hamburg, Germany
17:00-17:25	A35: Ultrafast Spectroscopy of Single Quantum Emitters	Christian Traum University of Konstanz, Germany
17:50	Dinner Social	

Wednesday, September 6
Rakoczi II Room B

Session: Space and Astrophysical Plasmas & Plasma Physics General I Chair: Pietro Mandracci

09:25-9:50	B01: Fields of an Ultrashort Tightly Focused Radially Polarized Laser Pulse in a Linear Response Plasma	Yousef Salamin American University of Sharjah, UAE
09:50-10:15	B02: White dwarf mass estimation by plasma emission spectroscopy	Takayuki Hayashi NASA's Goddard Space Flight Center, USA
10:15-10:40	B03: Cooling effects of an optically-thin synchrotron radiation during the Petschek-type magnetic reconnection process	Satoshi Takeshige Kyoto University, Japan
10:40-11:00	Session Break	
11:00-11:25	B04: X-Ray Spectroscopy of Supernova Remnants	Satoru Katsuda Chuo University, Japan
11:25-11:50	B05: Charge transfer reactions in astrophysical environments	Kristina Kislyakova University of Vienna, Austria
12:15	Lunch Break	
Session: Plasma Physics General II Chair: Yousef Salamin		
14:20-14:45	B06: Plasma assisted surface modifications for dental and medical applications	Pietro Mandracci Politecnico di Torino, Italy
14:45-15:10	B07: Low Pressure Plasma Enhanced Chemical Vapor Deposition for nano crystal Silicon thin films without heating	Kyoung Suk Oh National Fusion Research Institute, Korea
15:10-15:40	Poster Session	
15:40-16:05	B08: An observation method for the investigation of sputter erosion in DC air arc	Yi Wu Xi'an Jiaotong University, China
16:05-16:35	B09: Modelling of the arc plasma considering the non-chemically equilibrium effect	Hao Sun Xi'an Jiaotong University, China
17:50	Dinner Social	

Thursday September 7
Rakoczi I Room A

Session: Photonic Communications Chair: Sakae Kawato

08:35-09:00	A36: Achieving Terabit-Scale Optical Communications System by Twisting Light Beams	Yang Yue Juniper Networks, USA
09:00-09:25	A37: Demultiplexing method of terahertz-wave OFDM signals assisted by optical technology	Koichi Takiguchi Ritsumeikan University, Japan
09:25-09:50	A38: Handling fiber dispersion for direct detection based high speed metro and data center interconnects	Jinlong Wei Huawei Technologies Duesseldorf GmbH, European Research Center, Germany
09:50-10:15	A39: Simulating Optical Phased Array Propagation in Turbulent Atmosphere by Ray Tracing	Itay Naeh Rafael Advanced Defense Systems LTD., Israel
10:15-10:35	Session Break	
Session: Nonlinear Photonics Chair: Yang Yue		
10:35-11:00	A40: Noiselike pulse dynamics in passively mode-locked fiber lasers	Olivier Pottiez Centro de Investigaciones en 'Optica (CIO), Mexico
11:00-11:25	A41: Gap soliton-induced transparency in Kerr-metamaterial heterostructures	Luiz E. Oliveira Universidade Estadual de Campinas- Unicamp, Campinas-São Paulo, Brazil
11:25-11:50	A42: Efficient ultrashort pulse generation by high-intensity pumping from the mode-locked lasers with an intracavity highly nonlinear medium	Sakae Kawato University of Fukui, Japan
11:50-12:15	A43: Laser Assisted Cleaning of Radioactive Surfaces	Dhruba Jyoti Biswas Bhabha Atomic Research Centre, India
12:15	Lunch Break	

Thursday September 7		
Rakoczi I Room A		
Session: Silicon Photonics Chair: Francisco Javier Martínez Guardiola		
13:30 -13:55	A44: Electroluminescence efficiencies of rare earth ions in silicon-based hosts	Christophe Labbé Laboratoire CIMAP, France
13:55 -14:20	A45: Hyperuniform disordered materials and devices for silicon photonics	Milan Milosevic University of Southampton, UK
14:20-14:45	A46: Efficient near-infrared light emission and optical gain in Si quantum dots based on silicon oxynitride multilayer structures	Rui Huang Hanshan Normal University, China
14:45-15:10	A47: Strained germanium: A promising material platform for the development of Si-compatible infrared laser	Çiçek Boztuğ TED University, Turkey
15:10-15:35	A48: Spin-dependent direct gap emission in tensile-strained Ge films on Si substrates	Elisa Vitiello Università degli Studi di Milano Bicocca, Italy
15:35-15:55	Session Break	
Session: Novel Photonic Devices Chair: Milan Milosevic		
15:55-16:20	A49: Multipurpose semi-physical model for parallel aligned liquid crystal devices	Francisco Javier Martínez Guardiola Universidad de Alicante, Spain
16:20-16:45	A50: Curved Surface Nano-Lithography with Applications on Optical Anti-Reflection and Plasmon Resonance	Yung-Chun Lee National Cheng Kung University, Tainan, Taiwan
16:45-17:10	A51: Silicon subwavelength metamaterials: from basics to recent applications	Robert Halir Universidad de Málaga, Spain
17:10-17:35	A52: Solubility Correlation of Thermochromism and Photovoltic of pBCN Copolymers	Chin-Ti Chen Institute of Chemistry, Academia Sinica, Taiwan
17:35-18:00	A53: Plasmon-Enhanced Spectroscopies on Nanostructured Films Obtained by Colloidal Self-Assembly	Cosmin Farcau Babes-Bolyai University, Romania
18:10	Dinner Social	

Wednesday September 6

15:10-15:40

Poster Session

P01	Quantitative Analysis of Edible Salts by Using a Simple Laser-Induced Breakdown Spectroscopy Device	Song-Hee Han Mokpo National Maritime University, Korea
P02	Fluorescence Lifetime Imaging on Hybrid Colloidal Plasmonic-Photonic Crystals	Sanda Boca-Farcu Babes-Bolyai University, Romania
P03	Introduction of anionic polyelectrolyte as a cathode interlayer for low dark current organic photodiodes	Seongwon Yoon Daegu Gyeongbuk Institute of Science of Technology, Korea
P04	Synergetic application of surfactants for both facile fabrication process and high detectivity of inverted organic bulkheterojunction photodiode	Jae Un Ha Daegu Gyeongbuk Institute of Science of Technology, Korea
P05	Controlling Chaotic Dual-Ring Er-doped Fiber Laser via Modulating the Loss	Senlin Yan Nanjing XiaoZhuang University, China
P06	Growth, electrical and optical characterisations of perovskite SrVO ₃ thin films for the application as a new transparent conductor	Christophe Labbé Laboratoire CIMAP, France
P07	Formation of Virtual Anode and its fluctuations characteristics in presence of plasma bubbles	Mariammal Megalingam VIT University, India