Program for EMN Optoelectronics Meeting 2017		
Monday April 17		
14:00-18:00PM	**Onsite registration & Sign up**	
Tuesday April 18, 2017 Room A		
8:20-8:30AM	**Opening Ceremony**	
Session: Lasers Chair: Maxime Darnon		
8:30-8:55AM	A01: Laser efficiency improvement by high intensity pumping	**Sakae Kawato** University of Fukui, Japan
8:55-9:20AM	A02: Synchronization of two-color fiber lasers for pulse synthesis	**Dai Yoshitomi** AIST, Japan
9:20-9:45AM	A03: Ti:sapphire crystal fibers- from laser and broadband device to applications	**Sheng-Lung Huang** National Taiwan University, Taiwan
9:45-10:10AM	A04: Performances and robustness of IR seed Laser diodes under large overcurrent and short-pulse conditions for fiber Laser applications	**Laurent Bechou** University of Bordeaux, France
10:10-10:30AM	Session Break	
Session: Nanomaterials I Chair: Jan J. Dubowski		
10:30-10:55AM	A05: Micro/Nanotechnologies for high efficiency solar cells fabrication	**Maxime Darnon** Université de Sherbrooke, Canada
10:55-11:20AM	A06: High-Responsivity Graphene Photodiode-Oxide-Semiconductor Field Effect Transistor for Wide-Dynamic Range Optical Detection	**Klaus Y. J. Hsu** National Tsing Hua University, Taiwan
11:20-11:45AM	A07: Engineered Nanomaterials with Implications for Triggered Drug Release by Light Activated Pathways	**Byron Gates** Simon Fraser University, Canada

11:45-12:10PM	A08: Dynamic Generation of Photothermal Patterns on Conjugated Polymer Films	**Eunkyoung Kim** Yonsei University, Korea
12:10-13:30PM	Lunch Break	

Tuesday April 18, 2017 **Room A**		
Session: Nanomaterials II	**Chair: Maxime Darnon**	
13:30-13:55PM	A09: Toward a graphene phtonic integrated circuit	**Choon-Gi Choi** Electronics and Telecommunications Research Institute (ETRI), Korea
13:55-14:20PM	A10: Fabrication of InGaN/GaN ultrafine nanostructures by hydrogen environment thermal etching	**Akihiko Kikuchi** Sophia University, Japan
14:20-14:45PM	A11: Controlling the chemistry of optical breakdown-induced microplasmas for metal nanoparticle synthesis	**Katharine M. Tibbetts** Virginia Commonwealth University, USA
14:45-15:10PM	A12: Controllable Nano-Structured Material Fabrication for Beyond Si Device	**Hui-Lin Chang** National Chiao Tung University, Taiwan/ National Chiao Tung University, Taiwan & Globalfoundrires, Malta NY, USA
15:10-15:30PM	Session Break	
Session: Micro and Nano Photonics I	**Chair: Sergey Ponomarenko**	
15:30-15:55PM	A13: Addressable Direct-Write Formation of Nanoplasmonic Architectures by Nanoparticle-Mediated Bipolar Electrochemistry	**Paul Bohn** University of Notre Dame, USA

15:55-16:20PM	A14: Multimode interference devices comprising dielectric-stripe-based integrated plasmonic circuits	**Masashi Ota** Toyohashi University of Technology, Japan
16:20-16:45PM	A15: Towards a chip-sale nanophotonics metrology platform for temperature, pressure, vacuum and humidity	**Nikolai. N. Klimov** National Institute of Standards and Technology, USA/ Joint Quantum Institute, University of Maryland, USA
16:45-17:10PM	A16: Nanoparticles in Magnetic Resonance Imaging	**Renhua Wu** Shantou University Medical College, China
17:30PM	Dinner Social	

Wednesday April 19, 2017 **Room B**		
Session: Terahertz Technology		**Chair: Sylvain Girard**
8:30-8:55AM	B01: 0.7 Terahertz Silicon-Germanium Heterojunction Bipolar Technology: the European DOTSEVEN Project	**Michael Schroter** Technical University Dresden, Germany
8:55-9:20AM	B02: Plasmonic Anti-reflection Coating for Photoconductive Terahertz Generation	**Faezeh Fesharaki** University of Victoria, Canada
9:20-9:45AM	B03: Antenna-coupled microcavities for terahertz emission	**Julien Madéo** Okinawa Institute of Science and Technology, Japan
9:45-10:10AM	B04: Terahertz wave modulation in organic/inorganic hybrid structures	**Joong Wook Lee** Chonnam National University, Korea
10:10-10:30AM	Session Break	

Session: Fiber-optic Sensors and Devices		Chair: Michael Schroter
10:30-10:55AM	B05: Recent Progress in Fiber-based Sensors for Nuclear Environments	**Sylvain Girard** Université de Saint-Etienne, France
10:55-11:20AM	B06: Low loss jammed-array wideband sawtooth filter for fast interrogation of fiber grating sensors	**Zhongwei Tan** Beijing Jiaotong University, China
11:20-11:45AM	B07: Single mode confinement in a photonic crystal fiber using air hole geometry	**Waqas Mahmood** Beijing Institute of Technology, China
12:00-13:30PM	Lunch Break	

Wednesday April 19, 2017 Room B		
Session: Luminescence Materials		**Chair: Ivan Djordjevic**
13:30-13:55PM	B08: Highly efficient deep ultraviolet light-emitting diodes using glass electrodes	**Tae Geun Kim** Korea University, Korea
13:55-14:20PM	B09: Material development for organic light-emitting field-effect transistors	**Shih-Chun Lo** The University of Queensland, Australia
14:20-14:45PM	B10: Small Molecule Two-Photon Probes for Biomedical Applications	**Bong Rae Cho** Daejin University, Korea
14:45-15:10PM	B11: Application of Emission Ellipsometry Technique for Characterization of Luminescent Materials	**Paulo Alliprandini Filho** University of São Paulo, Brazil
15:10-16:00PM	**Poster Session&Break**	

Session: Fiber-optic Communications I Chair: Shuto Yamamoto		
16:00-16:25PM	B12: Recent progress on demultiplexer for variable symbol rate optical OFDM communication	**Koichi Takiguchi** Ritsumeikan University, Japan
16:25-16:50PM	B13: Optically encrypted multidimensional coded modulation enabling ultra-high speed optical transmission	**Ivan Djordjevic** University of Arizona, USA
16:50-17:15PM	B14: Optical Transmission Systems for Data Center Interconnects	**Werner Rosenkranz** University of Kiel, Germany
17:30PM	Dinner Social	

Wednesday April 19, 2017 **Room C**		
Session: Nanomaterials III Chair: Byron Gates		
8:30-8:55AM	C01: Photonic monitoring of bacterial growth and reaction to antibiotics with a photocorrosion-based biosensor	**Jan J. Dubowski** Université de Sherbrooke, Canada
8:55-9:20AM	C02: Design and density functional theory explorations on the luminescent mechanism of AuCu nanoclusters	**Haizhu Yu** Anhui University, China
9:20-9:45AM	C03: Silicides formation on Pt/SiOx interface induced by synchrotron radiation excitation	**Hidehiro Yasuda** Osaka University, Japan
9:45-10:10AM	C04: Enhanced Optoelectronic Performance based on Metal-Semiconductor Hybrid Materials	**Lin Jiang** Soochow University, China
10:10-10:30AM	Session Break	

Session: Fiber-optic Communications II	Chair: Werner Rosenkranz	
10:30-10:55AM	C05: Long-haul optical transmission systems enabled by LDPC coded non-uniform signaling	**Ivan Djordjevic** University of Arizona, USA
10:55-11:20AM	C06: Performance Improvement Using Coded-PAM Technique for Short-Reach Transmission	**Shuto Yamamoto** NTT Corporation, Japan
11:20-11:45AM	C07: Flat frequency comb and short pulse generation from a bismuth-based actively mode-locked fiber laser	**Yutaka Fukuchi** Tokyo University of Science, Japan
11:45-12:00AM	C08: Heavy Metal-free, Near-infrared Colloidal Quantum Dots for Efficient Photoelectrochemical Hydrogen Generation	**Xin Tong** Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, China
12:00-13:30PM	Lunch Break	

Wednesday April 19, 2017 Room C		
Session: Optical Control and Measurement of Properties of Materials I	**Chair: Donald Snyder**	
13:30-13:55PM	C09: Photonic function based on longitudinal optical phonon modes of semiconductors: infrared absorption control of composite materials and destructive quantum interferences	**Yoshihiro Ishitani** Chiba University, Japan
13:55-14:20PM	C10: Ultrafast Carrier Dynamics in Photo-Excited Optoelectronic Semiconductors	**Junichi Kanasaki** Osaka University, Japan
14:20-14:45PM	C11: Optical Properties of Ultrathin Metal Oxide Films	**Tupei Chen** Nanyang Technological University, Singapore

14:45-15:10PM	C12: AFM INTERMODULATION TECHNIQUE FOR CHARACTERIZATION OF SOFT BIOMATERIALS AT THE NANOSCALE	**Nisha Rani Agarwal** Chalmers university of technology, Sweden
15:10-16:00PM	**Poster Session&Break**	
Session: Optical Control and Measurement of Properties of Materials II Chair: Junichi Kanasaki		
16:00-16:25PM	C13: Quantifying Shifts in Refractive Index of Transparent Materials by Wavefront Distortion Analysis - Applications of Single Beam Interferometry in Optical Sensors and Chemical Analysis	**Donald Snyder** Eastern Michigan University, USA
16:25-16:50PM	C14: 3D metamaterials: fabrication, optical control and application	**Changzhi Gu** Institute of Physics, Chinese Academy of Sciences, China
16:50-17:15PM	C15: Ultra-fast spintronics with optical magnetization switching	**Kuntal Roy** Purdue University, USA
17:30PM	Dinner Social	

Thursday April 20, 2017 **Room B**		
Session: Micro and Nano Photonics II Chair: Masashi Ota		
8:30-8:55AM	B15: Nonlinear plasmonics paves the way to accurate sensing	**Sergey Ponomarenko** Dalhousie University, Canada
8:55-9:20AM	B16: Nanofluidics and Plasmonics for In-Line DNA Optical Mapping	**Parisa Bayat** University of Hamburg, Germany

9:20-9:45AM	B17: Dynamic measurements of pressure using photonic devices	**Kevin Douglass** National Institute of Standards and Technology, USA
9:45-10:10AM	B18: Core-level XPS spectra and elemental analysis on sputter deposited CuO and In:CuO thin films	**Jayaram Peediyekkal** MES Ponnani college, India
10:10-10:30AM	Session Break	
Session: Optical Control and Measurement of Properties of Materials III		**Chair: Peng Jiang**
10:30-10:55AM	B19: Oxygen partial pressure inside a running fuel cell measured with optical-fiber probes	**Junji Inukai** University of Yamanashi, Japan
10:55-11:20AM	B20: Optical Evaluation of Unconventional Nanoscopic Shape Memory Efforts Exhibited by Multi-Stimuli-Responsive Shape Memory Polymers	**Peng Jiang** University of Florida, USA
11:20-11:45AM	B21: Optical characterization of liquid crystalline materials	**Usha Manchi Krishna Rao** Saint Philomena's college, India
11:45-12:00AM	B22: Controlled interfacial engineering in “Giant” core/shell colloidal quantum dots to boost the solar cell performance	**Gurpreet Singh Selopal** Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, China
12:00-13:30PM	Lunch Break	

Thursday April 20, 2017 Room B		
Session: Nanomaterials IV	**Chair: Benoît Lessard**	
13:30-13:55PM	B23: IV-VI Semiconductors Grown on Silicon Substrates for Thermophotovoltaic (TPV) Power Generation	**Patrick J. McCann** University of Oklahoma, USA
13:55-14:20PM	B24: Au-Nanoparticle Embedded TiO_2 Nanotube Arrays for Sensing, Photocatalysis and Nonlinear Optics	**Karthik Shankar** University of Alberta, Canada
14:20-14:45PM	B25: Metal Oxide Nanowire Growth and Application for UV Sensing and Dye sensitized Solar Cells	**Simas Rackauskas** University of Torino, Italy
14:45-15:10PM	B26: Microstructural and biocompatibility properties of biogenic-hydroxyapatite doped with nano-sized Y-Zirconia	**Aliasghar Niakan** SEGi University, Malaysia
15:10-15:30PM	Session Break	
Session: Nanomaterials V	**Chair: Simas Rackauskas**	
15:30-15:55PM	B27: Performance Improvement of organic electronic devices through Interface Engineering: from surface initiated polymerization off the electrodes to crosslinking silicon phthalocyanine additives	**Benoît Lessard** University of Ottawa, Canada
15:55-16:20PM	B28: Chemical and electronic structure of graphene oxide and reduced/doped graphene oxide monolayers	**D. S. Sutar** Indian Institute of Technology Bombay, India
16:20-16:45PM	B29: Organic nanophotovoltaics: from the physical carrier transport to commercial aspects	**Vaidotas Kažukauskas** Vilnius University, Lithuania
17:30PM	Dinner Social	
April 21	One day excursion	

Wednesday April 19, 2017 15:10-16:00PM		
Poster Session		
P01	Graphene Oxide Supported Carbonate Doped Iron-Cerium Oxide for Rapid Visible-Light Driven Decomposition of Organic Dyes	**Jin Suk Chung** University of Ulsan, Korea
P02	Characterization of a photo-induced current in poly-Si solar cell by employing photoconductive AFM(PC-AFM)	**Jinhee Heo** Korea Institute of Materials Science, Korea
P03	Enhanced Photoresponse of Conductive Polymer Nanowires Embedded with Au Nanoparticles	**Junchang Zhang** Soochow University, China
P04	A Switchable Diffractive Grating Based on Metallic Reversible Electrochemical Mirror	**Chihyun Park** Yonsei University, Korea
P05	One-dimensional Solution-Processed TiO_2 Nanostructures for Use in Photovoltaics, Gas Sensing, Photocatalysis, and Microwave Resonators	**Ryan Kisslinger** University of Alberta, Canada