

**Program for EMN MEETING ON OPTOELECTRONICS 2016**

**Tuesday Apr.12**

**Room A**

7:20-7:50AM

Breakfast

**Session: Nanomaterials      Chair: Ivan Glesk**

8:00-8:25AM

A01: Visible-light sensitization of wide band-gap semiconducting nanomaterials for solar cells

**Ladislav Kavan**  
J. Heyrovsky Institute of Physical Chemistry, Czech Republic

8:25-8:50AM

A02: Plasmonic array metamaterials for applications in nanophotonics, nonlinear optics and biosensing

**Tiziana Cesca**  
University of Padova, Italy

8:50-9:15AM

A03: Metal nanoclusters for enhancing the performance and stability of organic solar cells

**Dong Chan Lim**  
Korea Institute of Materials Science (KIMS), Korea

9:15-9:40AM

A04: Characterization of opto-electrical enhancement of tandem photoelectrochemical cells by using photoconductive-AFM

**Jinhee Heo**  
Korea Institute of Materials Science (KIMS), Korea

9:40-10:05AM

A05: Multifunctional 3D networks based on 2D crystals

**Cecilia Mattevi**  
Imperial College London, UK

10:05-10:20AM

Session Break

**Session: Fiber-optic Communications I      Chair: Ladislav Kavan**

10:20 -10:45AM

A06: OCDMA, Electronic Bottleneck, and Challenges for Fiber-Optic Communications

**Ivan Glesk**  
University of Strathclyde,UK

10:45-11:10AM

A07: Feasibility Studies and Experimental Investigations of OFDM-based Access Networks

**Werner Rosenkranz**  
University of Kiel, Germany

11:10-11:35AM

A08: Seamless access networks for small cells and moving cells

**Pham Tien Dat**  
National Institute of Information and Communication Technology (NICT), Japan

11:35-12:00PM

A09: Feasible Packaging Design for Compact 100 GHz Optical Frequency Comb based on A Fused-quartz Micro-resonator

**Tze-An Liu**  
Industrial Technology Research Institute, Taiwan

12:00-13:30PM

Lunch Break

**Session: Micro and Nano Photonics I      Chair: Katsuhiko Miyamoto**

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|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 13:30-13:55PM                                                    | A10: On the plasmonic behavior of metallic nanostructures in the UV range                           | <b>Fernando Moreno</b><br>University of Cantabria, Spain                                                                   |
| 13:55 -14:20PM                                                   | A11: Deterministic semiconductor based single photon sources for hybrid quantum networks            | <b>Stephan Reitzenstein</b><br>Technische Universität Berlin,<br>Germany                                                   |
| 14:20 -14:45PM                                                   | A12: Non-smooth wave mechanics of light transmission through a sub wavelength slit in metallic film | <b>Kuan-Ren Chen</b><br>NCKU, Taiwan                                                                                       |
| 14:45 -15:10PM                                                   | A13: Suspended optical waveguides in InP for optomechanical applications                            | <b>Peter Horak</b><br>University of Southampton, UK                                                                        |
| 15:10-15:25PM                                                    | Session Break                                                                                       |                                                                                                                            |
| <b>Session: Terahertz Technology I    Chair: Fernando Moreno</b> |                                                                                                     |                                                                                                                            |
| 15:25-15:50PM                                                    | A14: Widely tunable (1-15THz) picosecond THz source and its applications                            | <b>Katsuhiko Miyamoto</b><br>Chiba University, Japan                                                                       |
| 15:50-16:15PM                                                    | A15: Senior Research Fellows                                                                        | <b>Alexander S. Mayorov</b><br>National University of Singapore,<br>Singapore                                              |
| 16:15-16:40PM                                                    | A16: High efficiency THz generation using MgO:LiNbO3 crystal                                        | <b>Kosuke Murate</b><br>Nagoya University, Japan                                                                           |
| 16:40-17:05PM                                                    | A17: Ultrafast carrier dynamics in graphene revealed by nonlinear THz spectroscopy                  | <b>Tsuneyuki Ozaki</b><br>Institut national de la recherche scientifique - Energie, Matériaux<br>Telecommunication, Canada |
| 17:30PM                                                          | Dinner Social                                                                                       |                                                                                                                            |
| <b>Tuesday Apr.12</b><br><b>Room B</b>                           |                                                                                                     |                                                                                                                            |

| <b>Session: Terahertz Technology II      Chair: Takayuki Ishibashi</b>                                  |                                                                                                   |                                                                      |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 8:00-8:25AM                                                                                             | B01: Chemical sensing and imaging with laser-excited THz technology                               | <b>Toshihiko Kiwa</b><br>Okayama University, Japan                   |
| 8:25-8:50AM                                                                                             | B02: THz spectroscopy for noninvasive sensing of early coagulation in human blood                 | <b>Chi-Kuang Sun</b><br>National Taiwan University, Taiwan           |
| 8:50-9:15AM                                                                                             | B03: Understanding of Water Molecular Dynamics in Living Cells by using Terahertz Spectroscopy    | <b>Yuichi Ogawa</b><br>Kyoto University, Japan                       |
| 9:15-9:40AM                                                                                             | B04: Precise terahertz wave measurements enabled by photonics technology                          | <b>Shintaro Hisatake</b><br>Osaka University, Japan                  |
| 9:40-10:05AM                                                                                            | B05: Strong Coherent THz generation from Selectively Enhanced Pumping of General Radiation Source | <b>Min Sup Hur</b><br>UNIST, Korea                                   |
| 10:05-10:20AM                                                                                           | Session Break                                                                                     |                                                                      |
| <b>Session: Optical Control and Measurement of Properties of Materials I      Chair: Toshihiko Kiwa</b> |                                                                                                   |                                                                      |
| 10:20 -10:45AM                                                                                          | B06: Generation of circularly polarized light in nano-scale utilizing V-groove structures         | <b>Takayuki Ishibashi</b><br>Nagaoka University of Technology, Japan |
| 10:45-11:10AM                                                                                           | B07: Ultrafast optical devices based on exciton quantum beats                                     | <b>Osamu Kojima</b><br>Kobe University, Japan                        |
| 11:10-11:35AM                                                                                           | B08: Broadband spectroscopy on dielectric and ferroelectric oxides                                | <b>Takashi Teranishi</b><br>Okayama University, Japan                |
| 11:35-12:00PM                                                                                           | B09: Femtosecond time-resolved dynamical Franz-Keldysh effect                                     | <b>Tomohito Otake</b><br>Japan Atomic Energy Agency, Japan           |
| 12:00-13:30PM                                                                                           | Lunch Break                                                                                       |                                                                      |

| <b>Session: Silicon Photonics Devices</b>     |                                                                                                                                                                      | <b>Chair: Ben Puttnam</b>                                                                           |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 13:30-13:55PM                                 | B10: Silicon Microring Resonator-Loaded Mach-Zehnder Modulator                                                                                                       | <b>Taro Arakawa</b><br>Yokohama National University, Japan                                          |
| 13:55 -14:20PM                                | B11: Er silicate nanowire light source for silicon photonics                                                                                                         | <b>Xingjun Wang</b><br>Peking University, China                                                     |
| 14:20 -14:45PM                                | B12: Ultrahigh bandwidth Ge-on-Si Photodetector                                                                                                                      | <b>Yu Yu</b><br>Huazhong University of Science and Technology, China                                |
| 14:45 -15:10PM                                | B13: A photoconductor intrinsically has no gain                                                                                                                      | <b>Yaping Dan</b><br>University of Michigan – Shanghai Jiao Tong University Joint Institute, China  |
| 15:10-15:25PM                                 | Session Break                                                                                                                                                        |                                                                                                     |
| <b>Session: Fiber-optic Communications II</b> |                                                                                                                                                                      | <b>Chair: Taro Arakawa</b>                                                                          |
| 15:25-15:50PM                                 | B14: High Capacity Multi-Core Fiber Systems                                                                                                                          | <b>Ben Puttnam</b><br>National Institute of Information and Communications Technology (NICT), Japan |
| 15:50-16:15PM                                 | B15: Optimal resource allocation in hybrid optical/electronic switching networks                                                                                     | <b>Weiqiang Sun</b><br>Shanghai Jiao Tong University, China                                         |
| 16:15-16:40PM                                 | B16: Flexible TWDM Passive Optical Network system architecture integrating multi Optical Distribution Network to support high density user in optical access network | <b>Mohd Shahril Bin Salleh</b><br>TMR&D, Malaysia                                                   |
| 16:40-17:05PM                                 | B17: hollow core fibres for low latency data transmission                                                                                                            | <b>Francesco Poletti</b><br>University of Southampton, UK                                           |
| 17:30PM                                       | Dinner Social                                                                                                                                                        |                                                                                                     |

| <b>Wednesday Apr. 13</b>                                                      |                                                                                                                                                         |                                                                                                                                 |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Room A</b>                                                                 |                                                                                                                                                         |                                                                                                                                 |
| 7:30-7:50A M                                                                  | Breakfast                                                                                                                                               |                                                                                                                                 |
| <b>Session: Keynote    Chair: Alayn Loayssa</b>                               |                                                                                                                                                         |                                                                                                                                 |
| 7:50-8:25AM                                                                   | A18: Silicon Photonics: Past, Present and Future                                                                                                        | <b>Ray T. Chen</b><br>The University of Texas, USA                                                                              |
| <b>Session: General Workshop on Optoelectronics I    Chair: Alayn Loayssa</b> |                                                                                                                                                         |                                                                                                                                 |
| 8:25-8:50AM                                                                   | A19: Ultrafast carrier dynamics related to lasers-induced damage                                                                                        | <b>Juan Du</b><br>Shanghai Institute of Optics and Fine Mechanics, CAS, China                                                   |
| 8:50-9:15AM                                                                   | A20: Natural materials and processes: a new source of inspiration for material scientists towards new biomimetic scaffolds for hard tissue regeneration | <b>Fabien Bretenaker</b><br>Laboratoire Aimé Cotton, France                                                                     |
| 9:15-9:40AM                                                                   | A21: Sensitive trace gas detection based on QEPAS sensor using multiple QTFs                                                                            | <b>Yufei Ma</b><br>Harbin Institute of Technology, China                                                                        |
| 9:40-10:05AM                                                                  | A22:                                                                                                                                                    | <b>C.R.Ou</b><br>Hsiuping University of Science and Technology, Taiwan                                                          |
| 10:05-10:20AM                                                                 | Session Break                                                                                                                                           |                                                                                                                                 |
| <b>Session: Fiber-optic Sensors and Devices I    Chair: Ray T. Chen</b>       |                                                                                                                                                         |                                                                                                                                 |
| 10:20 -10:45AM                                                                | A23: Brillouin distributed sensors assisted by Brillouin amplification of the pump pulses                                                               | <b>Alayn Loayssa</b><br>Universidad Publica de Navarra, Spain                                                                   |
| 10:45-11:10AM                                                                 | A24: Optical Link exploiting Power-over-fiber for Cabled Submarine Observatories                                                                        | <b>André Perennou</b><br>UMR CNRS 6285 Lab-STICC, ENIB (École Nationale d'Ingénieurs de Brest), Technopôle Brest-Iroise, France |
| 11:10-11:35AM                                                                 | A25: High-power optical frequency comb and its application                                                                                              | <b>Wenxue Li</b><br>East China Normal University, China                                                                         |
| 11:35-12:00PM                                                                 | A26: Sensors and Radioisotopes                                                                                                                          | <b>Farshid Tabbakh</b><br>Institute of Nuclear Science and Technology, Iran                                                     |
| 12:00-13:30PM                                                                 | Lunch Break                                                                                                                                             |                                                                                                                                 |

| <b>Optical Control and Measurement of Properties of Materials II    Chair: Masayuki Hashisaka</b> |                                                                                                                                  |                                                                               |
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| 13:30-13:55PM                                                                                     | A27: Photostability of amorphous As-Te thin films fabricated by pulsed laser deposition                                          | <b>Petr Nemeč</b><br>University of Pardubice, Czech Republic                  |
| 13:55 -14:20PM                                                                                    | A28: Reversible and All-Optical Fine-Tuning of Absorption Wavelength of Photochromic Diarylethene by Photo-Acid-Generating Agent | <b>Yasushi Yokoyama</b><br>Yokohama National University, Japan                |
| 14:20 -14:45PM                                                                                    | A29: Photoswitching of Bistable Homocyclic and Heterocyclic Aromatic Polymers                                                    | <b>Shoji Yamamoto</b><br>Hokkaido University, Japan                           |
| 14:45 -15:10PM                                                                                    | A30: Optical Limiting Behavior of Doped ZnO under Pulsed Laser (532 nm) Excitation                                               | <b>Vinay Khatri</b><br>Panipat Institute of Engineering and Technology, India |
| 15:10-15:40PM                                                                                     | Poster Session                                                                                                                   |                                                                               |
| <b>Session: Active Plasmonics and Metamaterials    Chair: Petr Nemeč</b>                          |                                                                                                                                  |                                                                               |
| 15:40-16:05PM                                                                                     | A31: Time-domain observation of spin- and charge-wave packet separation in chiral one-dimensional channels                       | <b>Masayuki Hashisaka</b><br>Tokyo Institute of Technology, Japan             |
| 16:05-16:30PM                                                                                     | A32: Vertical Hot-Electron Transistors with Graphene Base for Resonant Plasmonic Terahertz Detection                             | <b>Maxim Ryzhii</b><br>University of Aizu, Japan                              |
| 16:30-16:55PM                                                                                     | A33: Figure of Merit for Kerr Nonlinear Plasmonic Waveguides                                                                     | <b>Guangyuan (Clark) Li</b><br>The University of Sydney, Australia            |
| 17:30PM                                                                                           | Dinner Social                                                                                                                    |                                                                               |

| <b>Wednesday Apr. 13</b>                                            |                                                                                                        |                                                                                       |
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| <b>Room B</b>                                                       |                                                                                                        |                                                                                       |
| 7:30-8:00AM                                                         | Breakfast                                                                                              |                                                                                       |
| <b>Session: Fiber Lasers Chair I    Chair: Bumki Min</b>            |                                                                                                        |                                                                                       |
| 8:00-8:25AM                                                         | B18: Fiber Optical Parametric Amplifiers and Oscillators with Idler Removal Filter                     | <b>Mohd Adzir Mahdi</b><br>Universiti Putra Malaysia, Malaysia                        |
| 8:25-8:50AM                                                         | B19:                                                                                                   | <b>Zuxing Zhang</b><br>Nanjing University Of Posts And Telecommunications, China      |
| 8:50-9:15AM                                                         | B20: Polarization-modulated random fiber laser                                                         | <b>Zinan Wang</b><br>University of Electronic Science and Technology of China, China  |
| 9:15-9:40AM                                                         | B21: High power cascaded erbium-doped fluoride fiber laser                                             | <b>Hongyu Luo</b><br>University of Electronic Science and Technology of China, China  |
| 9:40-10:05                                                          | B22: selectively liquid filled chalcogenide PCF for ultra-wide MIR supercontinuum generation           | <b>Chen Wei</b><br>University of Electronic Science and Technology of China, China    |
| 10:05-10:20AM                                                       | Session Break                                                                                          |                                                                                       |
| <b>Session: Terahertz Technology III    Chair: Mohd Adzir Mahdi</b> |                                                                                                        |                                                                                       |
| 10:20 -10:45AM                                                      | B23: Nonlinear mixing and generation of THz frequencies in optically-excited graphene metadevices      | <b>Bumki Min</b><br>Korea Advanced Institute of Science and Technology (KAIST), Korea |
| 10:45-11:10AM                                                       | B24: Cherenkov Phase Matched Terahertz Generation from Waveguide Nonlinear Optical                     | <b>Kei Takeya</b><br>Nagoya University, Japan                                         |
| 11:10-11:35AM                                                       | B25: Generation of intense THz pulses with ZnSe interdigitated Large Aperture Photoconductive Antennas | <b>Xavier Ropagnol</b><br>Université du Québec, Canada                                |
| 11:35-12:00PM                                                       | B26: Multiphysics modeling of Terahertz photoconductive antennas                                       | <b>Carlos Andres Criollo</b><br>Universidad de los Andes, Colombia                    |
| 12:00-13:30PM                                                       | Lunch Break                                                                                            |                                                                                       |
| <b>Session: Fiber Lasers II    Chair: Virginie Nazabal</b>          |                                                                                                        |                                                                                       |
| 13:30-13:55PM                                                       | B27: Novel experiments on fiber lasers (Raman and rare-earth doped)                                    | <b>Efrain Mejia Beltran</b><br>Investigaciones en Optica, Mexico                      |

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| 13:55 -14:20PM                                                          | B28: Mid-infrared pulsed fiber lasers by using black phosphorus as saturable absorber | <b>Jianfeng Li</b><br>University of Electronic Science and Technology of China, China |
| 14:20 -14:45PM                                                          | B29: Mathematical Formalism for Erbium Doped Fiber Lasers                             | <b>G. R. Khan</b><br>National Institute of Technology Srinagar, India                 |
| 14:45 -15:10PM                                                          | B30: Yb-doped Fiber Amplification System with Gain-Narrowing Compensation             | <b>Yuhei Chiba</b><br>Yokohama City University, Japan                                 |
| 15:10-15:40PM                                                           | Poster Session                                                                        |                                                                                       |
| <b>Session: Mid Infrared Photonics I    Chair: Efrain Mejia Beltran</b> |                                                                                       |                                                                                       |
| 15:40-16:15PM                                                           | B31: Chalcogenides glasses : from synthesis to Mid-IR sensor applications             | <b>Virginie Nazabal</b><br>Université de Rennes, France                               |
| 16:15-16:40PM                                                           | B32: Mid-infrared Chalcogenide Waveguides on Silicon                                  | <b>Senthil Murugan Ganapathy</b><br>University of Southampton, UK                     |
| 17:30PM                                                                 | Dinner Social                                                                         |                                                                                       |



| <b>Thursday Apr.14</b>                                                                      |                                                                                                             |                                                                                                      |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Room A</b>                                                                               |                                                                                                             |                                                                                                      |
| 7:30-8:00AM                                                                                 | Breakfast                                                                                                   |                                                                                                      |
| <b>Session: General Workshop on Optoelectronics II    Chair: Sile Nic-Chormaic</b>          |                                                                                                             |                                                                                                      |
| 8:00-8:25AM                                                                                 | A34: Magneto-optic holographic display composed of magnetophotonic crystal                                  | <b>Hiroyuki Takagi</b><br>Toyohashi University of Technology, Japan                                  |
| 8:25-8:50AM                                                                                 | A35: Iterative Learning Approach Towards Optical Tomographic 3D Image Reconstruction                        | <b>Morteza H. Shoreh</b><br>Optics Laboratory, École polytechnique fédérale de Lausanne, Switzerland |
| 8:50-9:15AM                                                                                 | A36: Tuning the Fermi level to increase the photocatalytic performances of n type semiconductors            | <b>Guangsheng Fu</b><br>Hebei University, China                                                      |
| 9:15-9:40AM                                                                                 | A37:                                                                                                        | <b>Quoc-Hoai Tran</b><br>KAIST, Korea                                                                |
| 10:05-10:20AM                                                                               | Session Break                                                                                               |                                                                                                      |
| <b>Session: Optical Micro/Nanofibers and Related Applications    Chair: Hiroyuki Takagi</b> |                                                                                                             |                                                                                                      |
| 10:20 -10:45AM                                                                              | A38: Hollow Whispering Gallery Resonators                                                                   | <b>Sile Nic-Chormaic</b><br>OIST Graduate University, Japan                                          |
| 10:45-11:10AM                                                                               | A39: Optical fiber taper for biosensing applications                                                        | <b>Muhammad Hafiz Bin Abu Bakar</b><br>Universiti Putra Malaysia, Malaysia                           |
| 11:10-11:35AM                                                                               | A40: Nanostructured Micro/nanofiber and Related Applications                                                | <b>Ming Ding</b><br>Beijing University of Aeronautics and Astronautics, China                        |
| 11:35-12:00PM                                                                               | A41:                                                                                                        | <b>Gilberto Brambilla</b><br>University of Southampton, UK                                           |
| 12:00-13:30PM                                                                               | Lunch Break                                                                                                 |                                                                                                      |
| <b>Session: Fiber-optic Sensors and Devices II    Chair: Kenichi Hibino</b>                 |                                                                                                             |                                                                                                      |
| 13:30-13:55PM                                                                               | A42: Simplified Brillouin system based on direct current modulation of light source for distributed sensing | <b>Kwang Yong Song</b><br>Chung-Ang University, Korea                                                |
| 13:55 -14:20PM                                                                              | A43: Fiber gratings based lasers and                                                                        | <b>Xuewen Shu</b>                                                                                    |

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|                                                                                                          | sensors                                                                                                                                 | Huazhong University of Science and Technology, China                        |
| 14:20 -14:45PM                                                                                           | A44: Residual waves in multiwavelength Brillouin-erbium fiber lasers                                                                    | <b>Noran Azizan Cholan</b><br>Universiti Tun Hussein Onn Malaysia, Malaysia |
| 15:10-15:25PM                                                                                            | Session Break                                                                                                                           |                                                                             |
| <b>Session: Optical Control and Measurement of Properties of Materials III    Chair: Kwang Yong Song</b> |                                                                                                                                         |                                                                             |
| 15:25-15:50PM                                                                                            | A45: Optical phase measuring technique inside optical cavity for metrology challenges                                                   | <b>Kenichi Hibino</b><br>National Metrology Institute of Japan, AIST, Japan |
| 15:50-16:15PM                                                                                            | A46: Magneto-optical spatial light modulator for Holography application                                                                 | <b>Ken-ichi Aoshima</b><br>NHK, Japan Broadcasting Corp., Japan             |
| 16:15-16:40PM                                                                                            | A47: Experimental measurement of the complex degree of coherence of a partially coherent beam with nonconventional correlation function | <b>Xianlong Liu</b><br>Soochow University, China                            |
| 17:30PM                                                                                                  | Dinner Social                                                                                                                           |                                                                             |

| <b>Thursday Apr.14</b>                                                             |                                                                                                                 |                                                                                                   |
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| <b>Room B</b>                                                                      |                                                                                                                 |                                                                                                   |
| 7:30-8:00AM                                                                        | Breakfast                                                                                                       |                                                                                                   |
| <b>Session: Fiber-optic Sensors and Devices III    Chair: Sergey Ponomarenko</b>   |                                                                                                                 |                                                                                                   |
| 8:00-8:25AM                                                                        | B33: Stimulated Brillouin Scattering for Ultra-high Resolution Spectroscopy, THz- and Nyquist Pulse- Generation | <b>Thomas Schneider</b><br>TU Braunschweig, Institut für Hochfrequenztechnik, Germany             |
| 8:25-8:50AM                                                                        | B34: Light based Biomedical Sensors                                                                             | <b>Jose Miguel López-Higuera</b><br>Universidad de Cantabria, Spain                               |
| 8:50-9:15AM                                                                        | B35: Sensors based on a novel optical fibre - planar composite produced using Flame Hydrolysis Deposition       | <b>Peter G.R. Smith</b><br>University of Southampton, UK                                          |
| 9:15-9:40AM                                                                        | B36: Novel sensing technologies based on quartz tuning forks                                                    | <b>Lei Dong</b><br>Shanxi University, China                                                       |
| 10:05-10:20AM                                                                      | Session Break                                                                                                   |                                                                                                   |
| <b>Session: General Workshop on Optoelectronics III    Chair: Thomas Schneider</b> |                                                                                                                 |                                                                                                   |
| 10:20 -10:45AM                                                                     | B37: Spectral aspects in nonlinear plasmonics: Sum-and difference-frequency generation                          | <b>Sergey Ponomarenko</b><br>Dalhousie University, Canada                                         |
| 10:45-11:10AM                                                                      | B38: Self-splitting properties of partially coherent beam with nonconventional correlation functions            | <b>Yangjian Cai</b><br>Soochow University, China                                                  |
| 11:10-11:35AM                                                                      | B39:                                                                                                            | <b>Ratan Boruah</b><br>Tezpur University, India                                                   |
| 11:35-12:00PM                                                                      | B40: Silica as a host material for high performance luminescent materials                                       | <b>T. Akai</b><br>National Institute of Advanced Industrial Science and Technology, Japan         |
| 12:00-13:30PM                                                                      | Lunch Break                                                                                                     |                                                                                                   |
| <b>Session: Micro and Nano Photonics II    Chair: Ajoy Kumar Kar</b>               |                                                                                                                 |                                                                                                   |
| 13:30-13:55PM                                                                      | B41: A Compact Silicon Nanoantenna Array for High Efficiency Vertical Light Emission                            | <b>Wei Li</b><br>Shanghai Institute of Microsystem and Information Technology (SIMIT), CAS, China |
| 13:55 -14:20PM                                                                     | B42: Linear polarization degree for sensing, sizing and monitoring nanoparticle purity                          | <b>Francisco González</b><br>UNIVERSIDAD DE CANTABRIA, Spain                                      |

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| 14:20 -14:45PM                                          | B43: Super-narrow collective plasmon resonances at telecom wavelengths for active hybrid graphene plasmonic modulation | <b>Philip Thomas</b><br>The University of Manchester, UK                                  |
| 14:45 -15:10PM                                          | B44: Ultrafast pulse generation using transient Bragg gratings via spectral inheritance in optical waveguides          | <b>Yonatan Sivan</b><br>Unit of electro-optics Engineering, Ben-Gurion University, Israel |
| 15:10-15:25PM                                           | Session Break                                                                                                          |                                                                                           |
| <b>Session: Mid Infrared Photonics II Chair: Wei Li</b> |                                                                                                                        |                                                                                           |
| 15:25-15: 50PM                                          | B45: 3 D mid-IR Photonic and Optofluidic Devices                                                                       | <b>Ajoy Kumar Kar</b><br>Heriot Watt University, UK                                       |
| 15:50-16:15PM                                           | B46: Mid-infrared nonlinear silicon photonics                                                                          | <b>Xiaoping Liu</b><br>Nanjing University, China                                          |
| 16:15-16:40PM                                           | B47: Mid-infrared Integrated Devices for Chemical Sensing                                                              | <b>Yi Zou</b><br>University of Texas at Austin, USA                                       |
| 17:30PM                                                 | Dinner Social                                                                                                          |                                                                                           |

**Wednesday Apr. 13**

15:10-15:40PM

**Poster Session**

|    |                                                                                                       |                   |                                           |
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| P1 | Investigation of the Cupric Ion-Induced Reversible Assembly Properties of DNA-Nanoparticle Conjugates | <b>Jangho Joo</b> | Korea University,<br>Republic of<br>Korea |
| P2 | Controlling the Binding Properties of DNA-Gold Nanoparticles Using Diluent Sequences                  | <b>Sohyun Seo</b> | Korea University,<br>Republic of<br>Korea |