Welcome Message

It is my great honor and pleasure to invite you to the 2019 International Conference on Optical MEMS and Nanophotonics (IEEE OMN 2019), which will be held in Daejeon, Korea from July 28-August 1, 2019. IEEE OMN 2019 will not only provide a comprehensive overview of the most recent developments in the field of Optical MEMS and Nanophotonics and the latest technologies and applications. With natural beauty and diverse tour attractions, the city of Daejeon will surely be the center of many unforgettable moments.

We look forward to welcoming you in Daejeon, Korea.

Sincerely yours,

Ki-Hun Jeong, Ph.D.
Prof. at KAIST, General Chair, IEEE OMN 2019

Keynote Speakers

The following visionary speakers will share their experience and insights on the latest trends and developments in the fields of Optical MEMS and Nanophotonics.

- Prof. Dr. Hans Peter Herzig (EPFL, Switzerland)
  “The Beauty of Micro-optics”

- Prof. Olav Solgaard (Stanford University, USA)
  “Micromechanical Phased Arrays”

- Prof. Ming C. Wu (UC Berkeley, USA)
  “Optoelectronic Tweezers - A New Optofluidic Platform for Digital Cell Biology”

- Prof. Byoungho Lee (Seoul National University, Korea)
  “Metasurfaces for Display and Imaging Applications”

Call for Papers

OMN 2019 welcomes original technology, science and application papers in the following areas:

Optical MEMS
- Optical Scanners and Micromirrors
- Micro-Optical Systems for Imaging
- Microactuators for Optical Devices
- Adaptive and Tunable Optics
- Telecommunications Devices
- Spatial Light Modulators
- Optofluidics
- Tunable Filters
- Microspectrometers
- Microphotonics
- Optical MEMS Sensors
- Cavity Optomechanics
- Optofluidics
- Tunable Filters
- Microspectrometers
- Microphotonics
- Optical MEMS Sensors
- Cavity Optomechanics

Nanophotonics
- Nanoplasmonics
- Metamaterials and Metasurfaces
- Nanophotonic Materials
- Nanofabrication
- Nanophotonic Displays
- Nanophotonic Storage
- Nanoparticles Photonic Devices
- Photonic NEMS
- Flatland Photonics
- Integrated Photonics
- Silicon Photonics
- Diamond Photonics
- Photonic Nanowires
- Waveguides
- Nanoscale Sources and Emitters
- Photonic Crystals
- Quantum Photonic Devices
- Quantum Dot Photonics
- Quantum Phenomena
- Nanoscale Light-Matter Interactions
- Nano-Biophotonics
Important Dates

- Paper Submission System Open: February 18, 2019
- Paper Submission Deadline: May 10, 2019
- Early Bird Registration Deadline: July 5, 2019

Invited Speakers

Yasuhiko Arakawa (The University of Tokyo, Japan)
“Advances in Quantum Dot Lasers for Silicon Photonics”

Onur Ferhanoglu (Istanbul Technical University, Turkey)
“3D-printed Microsystems for Opto-medical Imaging”

Wayne Hiebert (National Institute of Nanotechnology/ National Research Council Canada, Canada)
“Damping is Good for You: Optomechanics for Mass Sensing”

Hartmut Hillmer (University of Kassel, Germany)
“Optical MEMS Based Micromirror Arrays: Fabrication, Characterization and Potential Applications in Smart Active Windows”

Jaeyoun Kim (Iowa State University, USA)
TBA

Jeong-bong Lee (UT Dallas, USA)
“Tunable and Flexible Nano Photonic Crystals”

Willie Luk (Sandia National Laboratories, USA)
“High Index Modulation Effects in Epsilon-near-zero Materials”

Kirsten Moselund (IBM Research, Switzerland)
“Monolithic Integration of III-V Microdisk Lasers on Silicon”

Raktim Sarma (Sandia National Laboratories, USA)
“Hybrid Dielectric and Plasmonic Metasurfaces : from Nonlinear Optics to Optoelectronics”

Tae Joon Seok (GIST, Korea)
“Silicon Photonics with MEMS for Efficient Light Manipulation”

Wei-Chuan Shih (University of Houston, USA)
“Multimodal and Multifunctional Plasmonic Nanostructures and Techniques”

Koji Sugano (Kobe University, Japan)

Jian Ye (Shanghai Jiao Tong University, China)
TBA

Conference Venue: KAIST

The IEEE 2019 International Conference on Optical MEMS and Nanophotonics will take place in KAIST, the conference hall located in the ‘Academic Cultural Complex’ on KAIST Campus. The ‘Academic Cultural Complex’ provides an ideal setting for the conference presentations, the poster sessions and as well the standing lunch.

Committee

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<td>Ki-Hun Jeong (KAIST, Korea)</td>
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