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2017 International Conference on Optical MEMS and Nanophotonics (OMN2017)

- [OMN 2017 Registration \(https://www.nist.gov/cnst/2017-omn-registration\)](https://www.nist.gov/cnst/2017-omn-registration)
- [OMN 2017 Keynote Speakers \(https://www.nist.gov/news-events/events/2017/08/2017-international-conference-optical-mems-and-nanophotonics-omn2017/omn\)](https://www.nist.gov/news-events/events/2017/08/2017-international-conference-optical-mems-and-nanophotonics-omn2017/omn)
- [Abstract Submission \(https://www.nist.gov/cnst/abstracts\)](https://www.nist.gov/cnst/abstracts)
- [OMN 2017 Committees \(https://www.nist.gov/cnst/omn-2017-committees\)](https://www.nist.gov/cnst/omn-2017-committees)
- [OMN 2017 Lodging \(https://www.nist.gov/cnst/omn-2017-lodging\)](https://www.nist.gov/cnst/omn-2017-lodging)
- [OMN Conference Program \(https://www.nist.gov/cnst/omn-conference-program\)](https://www.nist.gov/cnst/omn-conference-program)
- [OMN Invited Speakers \(https://www.nist.gov/cnst/omn-invited-speakers\)](https://www.nist.gov/cnst/omn-invited-speakers)

conference

August 13, 2017 to August 17, 2017
Courtyard Marriott Santa Fe, New Mexico, USA

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The 2017 International Conference on Optical MEMS and Nanophotonics (OMN), will be held August 13-17, 2017, in Santa Fe, New Mexico, USA. The conference will be hosted by NIST and co-sponsored by NIST CNST, Sandia and Argonne National Labs. OMN is an annual conference that draws in leading researchers, from industry and academia, who harness the interaction of light, or photons, with produced structures at micro and nanoscale and engineer these interactions through structure geometry and mechanical motion. This leads to diverse applications in technology fields such as imaging, communication, sensing, and instrumentation, as well as the sciences such as biology and medicine, chemistry and fundamental physics.

Optical MEMS and nanophotonic technologies enable the miniaturization and ultra-miniaturization of photonic devices and systems/sub-systems yielding new and enhanced capabilities in optical communications; physical, chemical and bio-sensing; optical imaging and displays; optical and biomedical instrumentation; and internet of things (IoT) devices.

The 2017 International Conference on Optical MEMS and Nanophotonics (OMN2017) will cover the most recent advances in optical MEMS and nanophotonics emerging from academic, government and industrial laboratories worldwide. The conference will focus on the latest advances in fundamental and applied research on micro-optical and nanophotonic devices and systems with a broad emphasis on interaction of photonic, electro-mechanical and acoustic degrees of freedom at the micro- and nano-scales. It will include the latest advances in materials and process technologies relevant to optical MEMS and

nanophotonics and the latest advances in the applications of optical MEMS and nanophotonic devices and systems.

Topics covered:

- Metamaterials and metasurfaces, passive and tunable
- Tunable and active micro- and nano-devices: optical, plasmonic, THz
- Silicon photonics, waveguides, photonic crystals
- Optomechanics and optofluidics
- Quantum phenomena: transduction, information, communication
- Nanoscale light-matter interactions: electro-mechanical, phononic, photonic, plasmonic
- Novel actuators and optically-powered devices
- Biomedical optical devices and nano-biophotonics
- Nanofabrication, packaging and integration
- Optical Imaging, sensing and metrology
- Optical and photonic sensors, transducers and microsystems

Paper Submission Deadline: May 21, 2017

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