



IEEE Nanotechnology Newsletter

IEEE Nanotechnology Council, Advancing technology for humanity

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Contents

NANO 2017 CFP Open
MARSSS submissions reminder
Nanotechnology Magazine CFP
Distinguished Lectures for 2017
New TC Announcement
2017 VP Publications
US NNI Triennial Review Available
2017 Council Officers
NTC Conferences

Call for Paper Submissions

**IEEE NANO 2017 17th INTERNATIONAL CONFERENCE ON NANOTECHNOLOGY
25 – 28 July 2016, Pittsburgh (USA)**

<http://sites.ieee.org/nanotech/announcing-nano-2017-call-papers/>

We cordially invite you to submit your papers to the 17th IEEE International Conference on Nanotechnology (IEEE NANO 2017) to be held July 25 – 28, 2017 at the Pittsburgh Marriott City Center in Pittsburgh, USA.

The [conference website](#) is now open for abstract submission. Abstract submission deadline is February 7, 2017.

IEEE NANO 2017 will provide a forum for the exchange of ideas, interaction, networking and collaboration for research and development in nanotechnology with special attention to the latest advances in nanotechnology. Topics for contributing papers include but are not limited to:

- DNA Nanotechnology
- Micro-to-nano-scale bridging
- Modeling and Simulation of Nanostructures and Nanodevices
- Nano-acoustics
- Nanobiology and Nanomedicine
- Nanoelectronics
- Nanomanufacturing and Nanofabrication
- Nano Robotics and Automation
- Nanomaterials

- Nano-optics, Nano-optoelectronics, and Nanophotonics
- Nanopackaging
- Nanoscale Metrology and Characterization
- Nanofluidics
- Nanomagnetism
- Nano/Molecular Heat Transfer & Energy Conversion
- Nanoscale Communication and Networks
- Nano/Molecular Sensors, Actuators, and Systems
- Nanotechnology Safety, Education and Commercialization
- Spintronics

The Important Dates of IEEE NANO 2017 are:

- Submission of two-page abstract: Feb. 7, 2017
- Workshop/tutorial proposals: Feb. 7, 2017
- Notification of acceptance: April 11, 2017
- Final submission: May 1, 2017
- Early bird registration deadline: May 1, 2017
- Conference: July 25-28, 2017



Plenary Speaker

Over the years, IEEE NANO has strived to feature high quality invited presentations from leaders and pioneers in the nanotechnology discipline. We proudly announce that, **Sir James Fraser Stoddart**, the 2016 Nobel Laureate in Chemistry, has accepted our invitation to give a plenary speech on “Nanomachine” at the IEEE NANO 2017!

Submission Deadline Reminder

MARSS2017 - second International Conference on Manipulation, Automation and Robotics at Small Scales

17-21 July 2017, Montréal, Canada

<http://sites.ieee.org/nanotech/2017-international-conference-manipulation-automation-robotics-small-scales-marss/>

The second International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS) is held from **17-21 July 2017 in Montréal, Canada**. This recently-established annual conference is managed by a high-level Steering Committee and technically supported by IEEE-RAS and IEEE-NTC. The Steering Committee has the ambition to develop MARSS to the **flagship event** for cross-disciplinary R&D communities to discuss current activities in **all areas related to manipulation and automation (including measurement and characterization) at micro & nano scales, and in all kinds of small scale robots and their applications**.

We cordially invite you to **attend and contribute** to the conference http://marss-conference.org/download/MARSS2017_Call-for-Papers.pdf.

Please consider **organizing a Special Session** at MARSS2017. You may check <http://marss-conference.org/calls/call-for-special-sessions> for details. Every Special session organizer (at least 5 registered presentations required) will benefit from the appreciation allowance of 450 CAD.

Submission of full or short papers: February 1, 2017

Special session proposals: February 1, 2017

Call for papers: IEEE Nanotechnology Magazine



<http://sites.ieee.org/nanotech/call-papers-ieee-nanotechnology-magazine/>

Practitioners and scholars in nanotechnology are invited to submit papers to special issues in the areas of biomedical devices, energy, nanomaterials, and nanorobotics. The scope includes, but is not limited to, the following:

- **Biomedical Devices:** imaging devices, biochips, biosensors, bio-instruments, biomaterials;
- **Energy:** Nanogenerators, batteries, fuel cells, solar cells;
- **Nanomaterials:** Graphene, nanowires, nanotubes, nanocomposites;
- **Nanorobotics:** nanomanipulators, nanoactuators, nanotools

Articles should adhere to the following requirements:

- 4-6 pages double column
- All figures should be at least 300dpi
- Submission by email to:

Send submissions to Editor-in-Chief: John T.W. Yeow (jyeow@uwaterloo.ca)

Manuscript Submission Deadline: March 31 2017

Announcing IEEE NTC Distinguished Lecturers for 2017

<http://sites.ieee.org/nanotech/distinguished-lecturers-2017/>

The IEEE Nanotechnology Council announces its Distinguished Lecturers (DL) for 2017.

Newly appointed:

- Husam Alshareef, King Abdullah University of Science & Technology, Thuwal, Saudi Arabia
- Ozgur B. Akan, Koc University, Istanbul, Turkey
- Jin-Woo Kim, University of Arkansas, USA
- Larry Nagahara, Johns Hopkins University, Baltimore, USA
- John T.W. Yeow, University of Waterloo, Canada

Continuing from 2016:

- Supriyo Bandyopadhyay, Virginia Commonwealth University, USA
- James Morris, Portland State University, Portland Oregon, USA
- H. H. Tan, Australian National University
- Yonhua (Tommy) Tzeng, National Cheng Kung University, Taiwan

For information on the Council's DL Program see

<http://sites.ieee.org/nanotech/dl-program/>.

New NTC Technical Committee

<http://sites.ieee.org/nanotech/new-technical-committee/>

At its November meeting, the NTC Excom approved a proposal from the NTC Technical Activities Committee to form the 14th Technical Committee (TC), on **Nanoacoustic Devices, Processes and Materials**. Xiaoning Jiang, of the Dept. of Mechanical and Aerospace Engineering, UNC & NCSU Joint Department of Biomedical Engineering, North Carolina State University, Raleigh, NC, USA was appointed as TC Chair for 2016-2017, and James Spicer of the Dept. of Materials Science and Engineering, Johns Hopkins University, Baltimore, MD, USA was appointed as TC co-chair for 2016-2017.

2017 IEEE NTC VP Publications

<http://sites.ieee.org/nanotech/vp-publications-2017/>

The IEEE Nanotechnology Council is pleased to announce that Professor Jin-Woo Kim, of the University of Arkansas, USA, was elected as the 2017 VP for Publications in the special election to fill the remaining year of the term vacated by Yonhua (Tommy) Tzeng, who was elected as President-elect 2017.

Kim is Director of the Bio/Nano Technology Group in the Institute for Nanoscience & Engineering at the University. He is past editor-in-chief of ENANO and is a long time member of the Conference Steering Committee for the IEEE International Conference on Nano/Molecular Medicine and Engineering (IEEE-NANOMED).

Triennial Review of the (USA) National Nanotechnology Initiative (2016)

<https://www.nap.edu/catalog/23603/triennial-review-of-the-national-nanotechnology-initiative>

Established in 2001, the (USA) National Nanotechnology Initiative (NNI) is a coordinated, multiagency effort with the mission to expedite the discovery, development, and deployment of nanoscale science and technology to serve the public good. This report is the latest triennial review of the NNI called for by the 21st Century Nanotechnology Research and Development Act of 2003. It examines and comments

on the mechanisms in use by the NNI to advance focused areas of nanotechnology towards advanced development and commercialization and on the physical and human infrastructure needs for successful realization in the United States of the benefits of nanotechnology development.
Free download.

IEEE NTC Officers for 2017

<http://sites.ieee.org/nanotech/officers/>

Past-President	Aristides Requicha
President	Wen J. Li
President-Elect	Yonhua (Tommy) Tzeng
Vice President of Conferences	Guangyong Li
Vice President of Finance	James Morris
Vice President of Publications	Jin-Woo Kim
Vice President of Technical Activities	Malgorzata Chrzanowska-Jeske
Secretary	Edward G. Perkins

IEEE NTC Conference Schedule

<http://sites.ieee.org/nanotech/conferences/conferences-2017/>

NEMS 2017	9-12 April	UCLA (USA)
NANO 2017	25-28 July	Pittsburg (USA)
NMDC 2017	2-4 October	Singapore
NANO 2018	July	Cork (Ireland)
NMDC 2018	October	Portland, Ore. (USA)
NANO 2019	July	Macau