

CALL FOR PAPERS

IEEE MTT-S International Microwave and RF Conference (IMaRC) December 13-15, 2019, IIT Bombay, Mumbai, India

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The IEEE Microwave Theory and Techniques Society (MTT-S), with technical co-sponsorship from IEEE Bombay Section and IIT Bombay, announces the 2019 IEEE MTT-S International Microwave and RF Conference (IMaRC) to be held during December 13-15, 2019 at IIT Bombay, Mumbai, India. This conference is held annually in India and provides a forum for the international community of microwave engineers to meet and present their latest technical achievements in the field of microwave and RF components, circuits, systems and modelling techniques.

The IMaRC 2019 invites papers in the areas of microwave, mm-wave and RF technologies that include, but are not limited to, the following:

- Monolithic and hybrid integrated active components and circuits.
- Amplifiers, mixers, oscillators, switches, frequency dividers/multipliers.
- Monolithic and hybrid passive components, circuits, filters, couplers, and transitions.
- Signal generation and modulation circuits.
- Receiver and transmitter components.
- High power transmitters.
- Active antennas and phased arrays.
- MIMO techniques.
- Novel waveguides and new phenomena in waveguides.
- RF packaging and package modeling.
- Semiconductor devices and component modeling for RF applications.
- RF integrated circuits, MEMS and microsystems.
- Microwave and millimeter-wave systems.
- Radar, SAR and microwave imaging.
- Electronic warfare and other military applications of RF/microwaves.
- Emerging areas including nanotechnology and biomedical applications.
- Wireless and cellular architectures, components, and circuits.
- Cognitive and adaptive radios.
- Highly integrated packaging.
- Methods of maintaining signal integrity.
- Optical fiber techniques and microwave photonics.
- EMI & EMC (electromagnetic interference and compatibility).

Submission Guidelines

Paper submission instructions and template will be available at <http://imarc-ieee.org/>

Important Dates

Proposals for special sessions, workshops and tutorials	June 25, 2019
Preliminary paper submissions (up to 4 pages in PDF format)	August 12, 2019*
Notification of acceptance	September 10, 2019
Camera ready paper submission	October 15, 2019

*** IMaRC 2019 will keep the web site open for new submissions until August 12, to accommodate authors returning from vacations. Although these papers will be submitted to the 'late submissions' track, they will go through the same review process. Papers already submitted will not be permitted to be changed because the review process has already started.**

Three to four page abstracts submitted to IMaRC 2019 by the submission deadline will be peer reviewed and evaluated for novelty, significance of the work, technical content and interest to the audience. Papers that are selected and presented at the conference will be published in IEEE Xplore. Final versions of the accepted papers may be up to six pages long.

Note: Based on the significance of the work, novelty and technical contents, papers will be selected for the following awards: Best Student Paper, Best Application Paper, Best Poster Paper, and Best Paper of the Conference.

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Plenary “Nobel Talk”**Dr. John Mather****Nobel Laureate, Physics 2006****The Future of Astronomy**

New technology continues to transform astronomy by opening up new windows to the universe. From gravitational wave detectors, we now know that the gold we mine on Earth came from merging neutron stars long ago and far away. From millimeter wave radio observatories we see stars forming with signs of planets growing around them. From cameras in space we see thousands of exoplanets transiting in front of their stars. And the future will include adaptive optics on giant 30 meter telescopes on the ground, capable of revealing the heart on Pluto, without space travel, and of seeing the formation of young galaxies billions of years ago. I will outline some dreams of future telescopes and future discoveries, possibilities that may happen if we work for them.

Dr. John C. Mather is a Senior Astrophysicist in the Observational Cosmology Laboratory at NASA's Goddard Space Flight Center. His research centers on infrared astronomy and cosmology. As an NRC postdoctoral fellow at the Goddard Institute for Space Studies (New York City), he led the proposal efforts for the Cosmic Background Explorer (74-76), and came to GSFC to be the Study Scientist (76-88), Project Scientist (88-98), and also the Principal Investigator for the Far IR Absolute Spectrophotometer (FIRAS) on COBE. He showed that the cosmic microwave background radiation has a blackbody spectrum within 50 ppm. As Senior Project Scientist (95- present) for the James Webb Space Telescope, he leads the science team, and represents scientific interests within the project management. He has served on advisory and working groups for the National Academy of Sciences, NASA, and the NSF (for the ALMA, the Atacama Large Millimeter Array, and for the CARA, the Center for Astrophysical Research in the Antarctic). He has received many awards including the Nobel Prize in Physics, 2006, for his precise measurements of the cosmic microwave background radiation using the COBE satellite.

Keynote Speaker at the Young Professional Event and Women in Engineering**Ms. Manasi Kirloskar**

Executive Director and CEO, Kirloskar Systems Limited
 Managing Trustee and CEO, Caring with Color
 Director, Kirloskar Technologies Limited
 Director, Toyota Tsusho Insurance Broker India Private Limited

Not every young entrepreneur can capitalize on a risk-taking spirit, an artist's instincts and critical-thinking skills to drive business endeavors and influence social change, but Manasi Kirloskar (29) forges her own path, while taking pride in her legacy and embracing the brand's values as the fifth generation of the Kirloskar family. Ms. Kirloskar will be talking to the young professionals (YIP) and Women in Engineering (WIE) at the IMaRC about the importance of creativity, leadership, commitment, and corporate governance with humanitarian inclination. Apart from her day job as a leader of a business empire, she is also a trained painter, deep sea diver, mountaineer of repute, and avid tennis and water sports player and enthusiast. She was the first Young Business Champion for the SDGs by the UN in India in October 2018.

