

THE 18TH INTERNATIONAL CONFERENCE ON MICRO AND NANOTECHNOLOGY  
FOR POWER GENERATION AND ENERGY CONVERSION APPLICATIONS

**POWER  
MEMS**

**DAYTONA  
BEACH**  
FLORIDA, USA



**DEC. 4-7 2018**

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# CALL FOR PAPERS!

**Abstract Submission Deadline – July 17, 2018**

## TOPICS

### Focus Sessions

- Multiferroic Materials, Devices and Systems
- Energy for Wearables/Implantables
- Zero-Power Devices and Systems

### General

- Energy conversion physics

### Materials for Energy Conversion

- Materials for energy conversion and storage
- Energetic nanomaterials
- Fabrication technology for power/energy systems

### Mechanical Energy Harvesting and Actuation

- Mechanical energy-harvesting
  - a-Electromagnetic
  - b-Piezoelectric
  - c-Electrostatic
  - d-Triboelectric
  - e-Other
- Motors/generators, pumps and actuators

### Direct Thermal Energy-Harvesting

- Thermal energy-harvesting
  - a-Thermoelectric
  - b-Pyroelectric
  - c-Others

### Thermal and Chemical Science and Technologies for Power, Propulsion, and Cooling

- Fluid, heat and mass transfer and chemical reactions in power/energy systems
- Fuel cells, reactors, and combustors
- Thermal management, thermal logic, and nanoscale thermal effects
- Heat engines, coolers, and heaters
- Thrusters and propulsion systems

### Electron, Ion, Photon and Radiation Energy Conversion

- Electron, ion and photon sources
- Photovoltaic and thermal photovoltaic cells
- Radioactive energy sources

### Biochemical and Bio-Inspired Power/Energy Systems

- Biochemical and bio-inspired power/energy systems

### Electrical Energy Harvesting, Management, Storage and Transfer

- Batteries, super-capacitors, and chemical energy storage
- Power electronics and energy management circuits
- RF, inductive and acoustic power transfer
- Electromagnetic energy harvesting

### Applications and Innovations in Micro Energy Systems

- Power MEMS in Action – Demonstrations
  - a-Applications
  - b-Devices and systems
  - c-Novel concepts and approaches
- Energy-autonomous wireless sensors for IoT
- Applications and market studies

[www.PowerMEMS.org](http://www.PowerMEMS.org)