

# First Call for Papers

## 2012 IEEE International Workshop on Antenna Technology: Small Antennas and Unconventional Applications

(including special sessions on non-Foster, Power Harvesting and THz / Nano Antennas)



March 5–7, 2012, Tucson, Arizona, USA

<http://www.cccmeetings.com/iwat2012.pdf>



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The International Workshop on Antenna Technology (iWAT) is an annual IEEE forum for the exchange of information on the progress of research and development in innovative antenna technologies. It especially focuses on small antennas and applications of advanced and artificial materials to the antenna design. iWAT2012 is a continuation of a series of annual international antenna workshops held first in Singapore (2005); and most recently in Lisbon, Portugal (2010) and Hong Kong, PRC (2011).

The workshop is organized by the ECE Department of the University of Arizona and is technically co-sponsored by the IEEE AP-S.

### The topics of interest include but not limited to the following:

#### Small Antennas

- Adaptive (smart) arrays
- Antenna measurements
- Antennas on/in IC packages
- Arrays
- Broadband antennas
- Co-design of antennas
- Conformal antennas
- Embedded antennas
- MEMS/Nano technology for antennas
- Millimeter wave and THz antennas
- Modeling and simulations
- Miniaturization of antennas
- Non-Foster/active elements
- Printed antennas
- Reconfigurable antennas
- Reflectarrays
- Small antenna measurements
- Ultra-wideband (UWB) antennas

#### Innovative Periodic Structures and Materials

- Analysis and design of EM materials
- Artificial magnetic conductors (AMC)

- Bi-anisotropic materials
- Electromagnetic anisotropy
- Electromagnetic bandgap (EBG)
- Fractal structures
- Frequency selective surfaces (FSS)
- Novel features of EM materials
- Single and double negative metamaterials
- Smart materials

#### Applications

- Automotive systems
- Bluetooth/W-LAN (PDAs, laptops)
- Body-centric wireless communications
- GPS systems
- Medical applications
- MIMO systems
- Mobile wireless systems
- Power harvesting
- RFID/Sensors
- UWB communication and radar systems
- Wireless communication systems  
(handheld devices, base stations)
- Radar systems

### Important Dates

- Deadline of paper submission : **October 7, 2011**
- Notification of Acceptance : **November 18, 2011**

### Paper Submission Guidelines

Authors **MUST** submit camera-ready papers **up to 4 letter pages** including figures by October 7, 2011 via the workshop website. Electronic submissions must meet all IEEE Xplore specifications. See the workshop website for templates and more information on creating acceptable electronic files.

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