

**International Workshop on Antenna Technology 2007:  
Small and Smart Antennas, Metamaterials and Applications  
21<sup>st</sup>-23<sup>rd</sup> March, 2007, Cambridge, U.K.**



The University of Manchester Sony Ericsson

The International Workshop on Antenna Technology is an annual IEEE forum for the exchange of information on the progress of research and development in innovative antenna technology, particularly for the miniaturization of antennas, broad/multiple-band antennas, smart-antennas and applications of advanced and artificial materials to antenna design. The workshop will be hosted by Queen Mary, University of London, UK, in collaboration with Sony-Ericsson Mobile Comm. AB and University of Manchester, UK.

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

**Small Antennas and Arrays**

- Printed antennas
- Co-design of antennas with RF front-end
- Miniaturization of antennas
- Embedded antennas
- Adaptive (smart) antenna arrays
- Conformal antennas and arrays
- Broadband antennas and arrays
- Multi-band antennas and arrays
- Diversity for antennas and arrays
- MIMO antenna system
- Antenna and space channel
- Measurement for ultra-wideband (UWB) antennas
- Measurement for SAR and near field of handheld devices
- MEMS/Nano technology for antennas in IC package
- Modelling and optimisation of antenna system
- Fast time-domain computation for UWB antenna systems

**Innovative Periodic Structures**

- Innovative periodic structures and materials
- Electromagnetic bandgap (EBG)

- Left-handed materials (LHM)
- Frequency selective surfaces (FSS)
- Artificial magnetic conductors (AMC)
- Electromagnetic anisotropy
- Fractal structures
- Bi-anisotropic materials
- Novel features of EM materials
- Smart materials
- Analysis and design of EM Materials

**Applications**

- UWB communication and radar systems
- MIMO transmission systems
- 3G and beyond mobile wireless systems
- Wireless communication systems (handheld devices, base stations)
- Bluetooth/WLAN (PDAs, laptops)
- RFID/Sensors
- Radar systems/automotives
- GPS systems
- Medical applications
- Millimeter systems

**Important Dates:**

Deadline of submission of paper: 30<sup>th</sup> September 2006.  
Notification of Acceptance: 1<sup>st</sup> December 2006

**Website:** <http://www.elec.qmul.ac.uk/iwat07>

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## Paper Submission Guidelines

Authors MUST submit camera-ready papers up to 4 A4 pages including figures by **15<sup>th</sup> October, 2006**, via the conference website. The paper format and submission guideline can be found at:

<http://www.elec.qmul.ac.uk/iwat07/submissions.htm>

## Co-Sponsors:

