

Loughborough Antennas & Propagation Conference (LAPC) 2009 Conference Programme

Sunday November 15th

- **Registration** 6:00 – 10:00pm
- **Pre-dinner Drinks Reception Sponsored by The IET** 6:45 – 8:00pm

Monday November 16th

- **Registration and Coffee** 8:00 – 9:00am
- **Conference Opening** 9:00 -9:15am

INVITED SESSION 1

9.15 -11.15am

Innovative Metamaterials Antennas and Technology

- 9:15 – 9:45am *Keynote Talk: **Prof. Raj Mittra** Pennsylvania State University, USA*
- Performance enhancements of antennas using metamaterials;
Challenges and Future Directions**
- 9:45 – 10:15am *Invited Talk: **Dr. Michael Wiltshire** Imperial College London, UK*
- Metamaterials - for lenses and cloaking from DC to optics**
- 10:15– 10:45am *Invited Talk: **Dr. John Batchelor** University of Kent, UK*
- Convolutted FSS elements for propagation control in buildings**
- 10:45 – 11:15am *Invited Talk: **Prof. Richard Langley** University of Sheffield, UK*
- Miniaturised periodic structures with antenna applications**
- Refreshments and Poster Session 1** 11:15am - 12:45pm
Exhibition Areas A, B, C, D & E

■ **Lunch Day 1 (Restaurant)**

12:45pm - 2:00pm

INVITED SESSION 2

2:00 – 4:00pm

Channel Characterisation and Modelling for Emerging Applications in Wireless Communications

2:00 – 2:30pm

Keynote Talk: Prof. Gert Pedersen Aalborg University, Denmark

Measurement based investigations of future communications system

2:30 – 3:00pm

Invited Talk: Dr. Robert Watson University of Bath, UK

Real-time propagation forecasting for earth-space communication

3:00– 3:30pm

Invited Talk: Prof. Andy Nix University of Bristol, UK

Delivering Live-Action to Handheld Devices: Experimental Results and Recommendations

3:30 – 4:00pm

Invited Talk: Dr. Dave Laurenson University of Edinburgh, UK

Modelling for vehicle to vehicle applications

■ **Refreshments and Poster Session 2**
Exhibition Areas A, B, C, D & E

4:00 – 5.30pm

■ **Drinks Reception**

Drinks are sponsored by CST, Microwave Studio®

6:30pm - 7:00pm

■ **Conference Banquet and Prize Giving (Restaurant)**

7:00pm - 10:30pm

Invited Banquet Talk: Prof. Peter Hall University of Birmingham, UK

Keeping a low profile: the history of microstrip antennas

■ **Conference Prize Giving**

Tuesday November 17th

INVITED SESSION 3

9.30 - 11.30am

Small Antennas & Arrays for MIMO Systems

9:30 – 10:00am *Keynote Talk: **Prof. Dirk Manteuffel** Christian-Albrechts University of Kiel, Germany*

MIMO antenna design challenges

10:00 – 10:30am *Invited Talk: **Prof. Cyril Luxey** University of Nice, France*

Design of multi-antenna systems for UMTS mobile phones

10:30 – 11:00am *Invited Talk: **Mr. Nathan Clow** DSTL*

Electrically Small Antenna Measurements using a Hybrid Fibre-optic Reflection Measurement System

11:00 - 11:30am *Invited Talk: **Prof. Dirk Heberling** Technical University of Aachen, Germany*

Multiport-antennas for MIMO-systems

■ **Refreshments and Poster Session 3**
Exhibition Areas A, B, C & D

11:30am - 1:00pm

■ **Lunch Day 2 (Restaurant)**

1:00pm - 2:00pm

Bioelectromagnetics in Antennas & Propagation

2.00– 2.30pm *Keynote Talk: Prof. Neils Kuster IT'IS Foundation Zurich, Switzerland*

**Challenges in developing complex transmitters as SAR and
OTA requirements tighten**

2:30 – 3:00pm *Invited Talk: Dr. Max Ammann Dublin Institute of Technology, Ireland*

**A stable near-field antenna hyperthermia applicator for various
tissue types and topologies**

3:00 – 3:30pm *Invited Talk: Prof. Yang Hao Queen Mary University London, UK*

**Subject-specific numerical modelling for body-centric wireless
communications**

3:30 – 4:00pm *Invited Talk: Dr. Roger Appleby QinetiQ, UK*

Imaging and sensing from 100GHz to 1THz band

■ **Refreshments and Poster Session 4**
Exhibition Areas A, B, C & D

4:00pm - 5:30pm

■ **Close of Conference**

5:30pm - 5:35pm

Wednesday November 18th 2009

9:00 - 5:00pm

FREE Workshops by CST and IMST