

META'08 & NATO Advanced Research Workshop Metamaterials for Secure Information and Communication Technologies

7-10 May, 2008, Marrakesh - Morocco

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Call for Papers

META'08 will cover a broad scope of topics ranging from the fundamental electromagnetic theory of metamaterials and related materials and structures to novel types of microwave and optical devices and components. Special attention will be given to applications of these innovative materials in secure wireless and optical communication systems, high-speed circuits, optical sensing, nanoscale imaging and cloaking. The program will include : Keynote lectures, Invited talks, Contributed oral and poster presentations, Interactive round tables.

Topics of the conference will include, but are not limited to:

- Fundamental and applied aspects of waves in structured, periodic and disordered metamaterials.
- Electromagnetic properties of complex materials including photonic and plasmonic materials, negative-index materials, frequency selective surfaces, high impedance structures and novel composites with unusual electromagnetic properties.
- Modelling, fabrication and characterization of complex materials and surfaces.
- Metamaterials and periodic structures technologies and applications.

Keynote Speakers

- Nader Engheta (University of Pennsylvania, USA), *Metatronics: Optical Circuits and Information Processing in Nanoworlds*.
- Tatsuo Itoh (University of California, LA, USA), *Metamaterial Microwave Components Based on Dual Modes*
- Ricardo Marques (Universidad de Sevilla, Spain), *Advances in Isotropic Metamaterial Design*.
- Ross McPhedran (University of Sydney, Australia), *Cloaking by Reaction through Plasmonic Resonance*
- Yahya Rahmat-Samii (University of California, USA), *Applications of Metamaterials in Antenna Designs: Concepts, Design and Optimization*.
- Vladimir Shalaev (Purdue University, USA), *Engineering Optical Space: from Meta-Materials to Meta-Devices*.
- Ari Sihvola (TKK, Finland), *Handedness in plasmonics: Electrical Engineer's Perspective*.
- Costas Soukoulis (Iowa State University, USA), *Negative Index Materials: New Frontiers in Optics*.
- Minas Tanielian (Boeing Phantom Works, USA), *Metamaterials for Electronically Steered Beams*.
- Sergei Tretyakov (TKK, Finland), *Review of Possible Approaches to Electromagnetic Cloaking of Objects*.
- Yiannis Vardaxoglou (Loughborough University, UK), *Planar and Cylindrical Metamaterial Structures for Antenna Applications*.
- Alexey Vinogradov (Academy of Sciences, Russia), *Exhibition of Gyrotropy in Photonic Crystals*.
- Nikolay Zheludev (University of South Hampton, UK), *Mimicking quantum phenomena with classical metamaterials*.
- Richard Ziolkowski (University of Arizona, USA), *The Impact of Passive and Active Metamaterial Constructs on Electrically Small Radiating and Scattering Systems*.

Paper Submission Guidelines

Authors are strongly recommended to use the on-line submission system to submit their abstracts. E-mail submissions to said.zouhdi@supelec.fr are also accepted. The paper format and submission guidelines can be found at: <http://meta.lgep.supelec.fr/submission.html>

Important Dates

18 January 2008:	Deadline for Submission of abstracts
28 January 2008:	Notification of acceptance
11 February 2008:	Submission of final manuscript and registration
7-10 May 2008:	Meta'08 in Marrakesh

Venue and Contact

The workshop will be hosted by a five stars Hotel in Marrakesh, Morocco.
Contact: said.zouhdi@supelec.fr; Website: <http://meta.lgep.supelec.fr/>

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