



Doctoral School:

30-31 August 2009

Conference:

1-4 September 2009

Important Dates

Paper submission 16 March 2009

Student paper competition application deadline

16 March 2009

Paper acceptance notification 25 May 2009

Grant application deadline 5 June 2009

Student paper finalist notification:
19 June 2009

Grant notification 19 June 2009

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http://congress2009.metamorphose-vi.org/

The Third International Congress on Advanced Electromagnetic Materials in Microwaves and Optics - *Metamaterials* 2009, will be held on 30th August - 4th September 2009 in London, UK. The Congress will comprise a 4-day Conference, 1st- 4th September and a 2-day Doctoral School, 30th-31st August. The Congress is organized by Metamorphose Virtual Institute (http://www.metamorphose-vi.org/) and is hosted by Queen Mary University of London. An Exhibition will also be held during the Congress (http://exhibition2009.metamorphose-vi.org/).

This Congress follows the success of *Metamaterials* 2007 & 2008 in Rome, Italy & Pamplona, Spain, respectively, and continues the traditions of the highly successful series of International Conferences on Complex Media and Metamaterials (Bianisotropics); and Rome International Workshops on Metamaterials and Special Materials for Electromagnetic Applications and TLC. The Congress will be a unique opportunity to share the results of the latest efforts in metamaterial research in Europe and worldwide and bring together the engineering, physics, and material science communities working in the field of artificial electromagnetic materials and their applications at microwave, millimetre wave, terahertz, and optical frequencies.

THE CONFERENCE

The conference will include plenary presentations given by eminent researchers in the field. A number of special sessions will be organized to address the important topics in metamaterials research. These sessions will be introduced by keynote and invited speakers, who will review the state-of-the-art and discuss the latest advancements in the respective areas. The regular technical oral and interactive poster sessions will encompass a broad range of themes ranging from the fundamental electromagnetic theory of metamaterials and complex electromagnetic media to novel types of microwave and optical devices and components.

Submission Deadline — 16 March 2009

PAPER SUBMISSION

Papers should be submitted by uploading a PDF-file to the Congress website: http://congress2009.metamorphose-vi.org The paper should be in English and 3pages long (including figures and references). The paper should contain an abstract, a brief conclusion, and a main body where the technical content and the novelty of the work are clearly presented. Authors are requested to use the template when preparing their submission. Papers not following the template will not be accepted for the publication in the Conference Proceedings. Paper title, author's name, affiliation full address (including phone number and e-mail), and brief abstract (50 words) will be required for the Congress website when submitting the paper. Only electronic submissions via the web portal will be accepted. The authors are responsible for obtaining publication permission from their employers and sponsors. A written statement signed by the submitting author must accompany each paper. The deadline for the paper submission is 16th March 2009, late submissions will not be considered. All papers will be reviewed by the Technical Programme Committee and the authors will be notified of the status of their submission by 25th May 2009. Please visit the Congress website for details of the submission process and paper template.





Congress Host

Queen Mary (QMUL) is part of the federal University of London, and is its fourth largest College. It is the only self contained campus in central London and it is located just two miles from the heart of the city. The University of London is comprised of over 40 institutions, forming the largest and most divisions university in Britain.

QMUL is one of the world's leading Universities in research and teaching for science and engineering, and will provide an excellent conference location together with outstanding facilities.

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Previous Congresses

France

S. Zouhdi

Metamaterials 2008

Pamplona, Spain

Metamaterials 2007

Rome, Italy

Contacts

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TOPICS

The conference topics encompassing general theory, design, applications, fabrication and measurements, include but are not limited to:

- Physics of complex electromagnetic materials
- Micro- and nano-fabrication of metamaterials
- Experimental studies and characterization of metamaterials
- Analytical and numerical modelling of metamaterials
- Homogenization of metamaterials and effective medium models
- Three-dimensional metamaterials
- Planar metamaterial structures, meta-surfaces and meta-sheets
- Metamaterials for nano-electronics and nano-antennas
- Carbon nanotubes and graphene in metamaterials
- Tunable/reconfigurable/active/nonlinear metamaterials
- · Chiral and bianisotropic composites

- Metamaterials with extreme parameters
- Plasmonic metamaterials
- Extraordinary transmission
- EBG structures, photonic crystals, and their applications
- Millimeter wave/THz metamaterials and applications
- Optical metamaterials and applications
- Antenna applications
- Applications in microwave engineering
- Superlenses, hyperlenses, other near-field imaging devices
- Transformational electromagnetics and optics
- Advances in cloaking
- Applications of metamaterials in absorbers
- Educational aspects of metamaterials

Paper Selection Criteria

Papers will be selected on the basis of the following criteria: a) *originality* - the paper must present novel and significant results; b) *content* - the paper should give a clear description of the work with the necessary supporting data and literature references; c) *quality* - clarity of writing and figures; d) *relevance* - to the Congress scope.

Reduced Fees

Conference registration fees are reduced for students and senior participants over 65 years.

Grants

A few travel grants will be provided for students and delegates from low-income countries. The grant rules and application forms are available at the Congress website. Applications should be submitted online before 5th June 2009.

STUDENT PAPER COMPETITION

The Conference Organizers run a competition for the best student paper. All the students are invited to compile and submit on-line the application form at the Conference website before 16th March 2009 (the same deadline as for the paper submission). During the submission procedure, the students will be asked to upload: a) a CV of their scientific activity; b) the paper submitted for review; c) an endorsement letter from the student's main supervisor stating that the paper is the result of student's work. The first author must be the student and the second author may be the student's major professor/advisor. More than two authors are not admitted, unless the student has two advisors from different institutions. The papers will follow the regular review process. The TPC will evaluate the students' applications and invite the selected students to present their papers at a dedicated poster session during the Conference. The invited finalists will have the registration fee waived. The winner of the best student paper competition will be announced at the Conference closing ceremony.

DOCTORAL SCHOOL ON METAMATERIALS

A course of the European Doctoral School on Metamaterials operated by the Metamorphose Virtual Institute will be held in conjunction with the Congress. This event will present a unique opportunity for young researchers from around the world to get exposure to the latest advancements in the field of metamaterials and to meet the world's leading experts in this rapidly developing field. The lectures will be delivered by **distinguished lecturers associated with the Congress** who will address the fundamental problems in the area of artificial electromagnetic materials along with the practical aspects of **microwave**, **millimetre wave**, **THz**, **and optical applications**. The course will offer interactive lectures enhancing students' participation and learning. Details of the School will be published at a dedicated page on the Congress website:

http://school.metamorphose-vi.org/