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 Metamorse 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 3-pages 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.
**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
- 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 electromagnetic and optics
- Advances in cloaking
- Applications of metamaterials in absorbers
- Educational aspects of metamaterials

**Scientific Advisory Board**

P. Claricoats  
T. J. Cui  
P. de Maagt  
G. Eleftheriades  
N. Engheta  
V. Fusco  
P. S. Hall  
T. Itoh  
Y. Kivshar  
A. N. Lagarkov  
L. W. Li  
R. McPhedran  
J. Mosig  
R. Mittra  
H. Nakano  
S. Noda  
A. Oliner  
E. Ozbay  
C. Parini  
J. Fendry  
R. Pearson  
A. Priou  
C. Soukoulis  
M. Stockman  
V. V. Varadan  
L. Vegni  
I.B. Vendik  
V.G. Veselago  
N. Zheludev  
S. Zouhdh

**Previous Congresses**

**Metamaterials 2008**  
Pamplona, Spain

**Metamaterials 2007**  
Rome, Italy

**Contacts**

George Palikaras  
Vladimir Podlozny

cnctact@congress2009, metamorphose-vi.org

**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/