The Seventh International Congress on Advanced Electromagnetic Materials in Microwaves and Optics – Metamaterials 2013, will comprise a 4-day Conference (16-19 September), and a 2-day Doctoral School (20-21 September). Organized by the Metamorphose Virtual Institute (www.metamorphose-vi.org) and hosted by the Université de Bordeaux (http://www.univ-bordeaux.fr), this Congress follows the success of Metamaterials 2007-2012 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 provide a unique forum to share the latest results of the metamaterials 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 microwaves, millimeter waves, terahertz, and optical frequencies.

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The Conference

The Conference includes three plenary presentations given by Prof. David Smith (USA), Prof. Shanhui Fan (USA), and Prof. Martin Wegener (Germany). Keynote talks will address hot topics in metamaterials research and leading experts will present invited talks, which will review the state-of-the-art and address the latest advancements in their respective areas. The technical oral talks and interactive poster sessions will encompass a broad range of themes, from fundamental electromagnetic theory of metamaterials and complex electromagnetic media to innovative microwave and optical devices.

Submission Deadline: 24 March 2013

Paper Submission

Papers should be up to 3-pages long (including figures and references). Each 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. Papers should be submitted by uploading a camera-ready PDF file to the website: http://congress2013.metamorphose-vi.org. Authors are requested to use the template provided in the Congress website when preparing their submission. The deadline for the paper submission is 24th March 2013; late submissions will not be considered. All papers will be reviewed by the Technical Program Committee and the authors will be notified of the status of their submission by 1st June 2013. Please, visit the Congress website for details of the submission process and paper template.

NEW: the papers accepted and presented at the conference, will be published in IEEE Xplore subject to the manuscript compliance with the IEEE format and copyright requirements.

Reduced fees. Reduced fees are available for personal or institutional members of the Metamorphose VI and 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 will be available at the Congress website. Applications should be submitted online before 15th June 2013.
**Topics**

- Physics of complex electromagnetic materials
- Experimental techniques for characterization of metamaterials
- Analytical and numerical modelling of metamaterials
- Homogenization of metamaterials and effective medium models
- Three-dimensional metamaterials
- Planar metamaterials, meta-surfaces and meta-sheets
- Carbon nanotubes and graphene in metamaterials
- Active and absorption-free metamaterials
- Chiral and bianisotropic composites
- Metamaterials with extreme parameters
- Quantum metamaterials
- Plasmonic metamaterials
- Extraordinary transmission
- EBG structures, photonic crystals, and their applications
- Antenna and absorber applications of metamaterials
- RF and microwave metamaterials: design, properties, applications
- Millimeter wave/THz metamaterials and applications
- Optical metamaterials and applications
- Acoustic and mechanical metamaterials
- Metamaterials for nanoelectronics and nanoantennas
- Metamaterials for quantum electronics
- Metamaterials for sensors
- Biological applications of metamaterials
- Medical applications of metamaterials
- Integrated nanophotonics
- Super-resolution and near-field imaging: effects and devices
- Transformational electromagnetics and optics
- Advances in cloaking
- Micro- and nano-fabrication of metamaterials
- Top-down and bottom-up fabrication methods
- Novel metamaterial concepts
- Educational aspects of metamaterials

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**Scientific Advisory Board**

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**Student Paper Competition**

The Conference organizers run a competition for the best student paper (oral or poster). All student participants are invited to enter the competition by submitting an online application form at the Conference website before **24th March 2013** (the paper submission deadline). Students need to be registered on the website to submit a paper and fill in the form. During the submission process, students will be asked to upload: (a) a CV of their scientific activity, (b) the title of the submitted paper, (c) an endorsement letter signed by the student's supervisor/advisor stating that the paper is the result of student's work. The student must be the first author, and the co-authors may be the student's supervisors/advisors. No more than two authors are allowed, unless the student has additional advisors from different institutions or departments that must be explicitly stated in the endorsement letter. The student competition papers will undergo a regular review process and then will be selected by a dedicated Committee. The Committee will evaluate students’ applications and invite the finalists to present their papers at a special interactive poster session during the Congress. In addition to judging the regular conference presentation, the Committee will also assess the quality of interactive poster presentations and students’ mastering their research topic. All the finalists will have the registration fee waived. Only one paper per student will be considered. In case of multiple entries with different papers, the student will not be enrolled in the competition.

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**Doctoral School on Metamaterials**

A course of the European School on Metamaterials operated by the Metamorphose Virtual Institute will be held in conjunction with the Congress (20-21 September 2013). The theme of the course, which will be co-organized with the University of Bordeaux, will be **“Bottom-up metamaterials”**. This event will represent a unique opportunity for students and young researchers to get exposure to the latest advancements in the field of metamaterials and to meet the leading experts in this rapidly developing field. For further information visit the school website [http://school.metamorphose-vi.org/](http://school.metamorphose-vi.org/)

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**Previous Editions of the Congress**

- 2012 St. Petersburg, Russia
- 2011 Barcelona, Spain
- 2010 Karlsruhe, Germany
- 2009 London, UK
- 2008 Pamplona, Spain
- 2007 Roma, Italy

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**Contacts**

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