



METAMATERIALS' 2008

Pamplona 21-26 September

Second International Congress on Advanced Electromagnetic Materials in Microwaves and Optics

meta
morphose

CONFERENCE VENUE

The Congress is held in Pamplona, Spain and is hosted by the Public University of Navarra.

IMPORTANT DATES

- Paper submission:
12 May 2008
- Student paper competition application deadline:
12 May 2008
- Acceptance notification:
30 June 2008
- Grant application deadline:
10 July 2008
- Student paper finalist notification:
21 July 2008
- Grant notification:
21 July 2008
- European School on Metamaterials:
21-22 September 2008
- Conference
23-26 September 2008

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Brief introduction

The Second International Congress on Advanced Electromagnetic Materials in Microwaves and Optics - *Metamaterials 2008* will be held in Pamplona, Spain, on 21-26 September 2008. The Congress is organized by the Metamorphose Virtual Institute (<http://www.metamorphose-vi.org/>) and is hosted by the Public University of Navarra. The Congress will comprise a 4-day conference (23-26 September) and a 2-day Doctoral School (21-22 September), and an Exhibition will be held during the Congress (<http://exhibition2008.metamorphose-vi.org/>).

Following the success of *Metamaterials 2007* (22-26 October 2007, Rome, Italy) and continuing 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 a plenary session with invited presentations by eminent researchers in the field, a number of special sessions devoted to hot topics in metamaterial research (these sessions will be introduced by keynote speakers, who will review/set the stage for the special session), regular oral sessions, and interactive poster sessions. The technical sessions will encompass a broad range of topics, from the fundamental electromagnetic theory of metamaterials and complex electromagnetic media to novel types of microwave and optical devices and components. Special sessions will focus on applications of innovative materials, micro- and nano-technologies, and new physical phenomena in wireless and optical communication circuits and systems, optical sensing, nanoscale imaging and photolithography.

Information for Authors

Papers should be submitted by uploading a PDF-file to the Congress website: <http://congress2008.metamorphose-vi.org/>. The paper should be in English and 3-page 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 at the Congress website when submitting the paper. Only electronic submissions via the web portal will be accepted. Further details of the submission process and paper template are available at the Congress website. 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 **12 May 2008**. 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 30 June 2008.

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Topics

The conference scope includes but is not limited to the following topics:

1. Artificial electromagnetic materials and surfaces
2. Plasmonic metamaterials
3. Spatially dispersive materials
4. Negative index materials
5. Chiral and bianisotropic media
6. Artificial and composite magnetic materials
7. Electromagnetic band gap structures and photonic crystals
8. Nonlinear metamaterials and artificial surfaces, ultra fast phenomena and devices
9. Tunable and active metamaterials and surfaces
10. Nano-scaled metamaterials
11. Periodic structures, frequency selective surfaces
12. Nano-structured surfaces, enhanced transmission
13. New physical phenomena in complex media
14. Effective medium modelling and material phenomenology
15. Modelling of complex materials and surfaces
16. Fabrication and processing of metamaterials and artificial electromagnetic surfaces
17. Experimental characterisation of metamaterials and measurement techniques
18. Electromagnetic waves in complex media: propagation, reflection, diffraction and scattering
19. Guiding structures with complex media, including nano-scaled transmission lines
20. Complex materials in microwave and optical devices
21. Miniaturisation of microwave and optical devices
22. Metamaterial based antennas
23. Sub-wavelength imaging, enhancement of evanescent fields, including nano-imaging and detection
24. Plasmon-polariton devices and circuits
25. Emerging metamaterial technologies and applications
26. Educational aspects of artificial materials

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 persons aged over 65.

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 10 July 2008.

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 12 May 2008 (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 discouraged and will not be considered for the competition. 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.

Only one paper per student will be considered. In case of multiple applications with different papers, the student will be excluded from the competition.

European 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. This event will present a unique opportunity for young researchers to get exposed to the latest advancements in the field of metamaterials and to meet the leading experts in this explosively developing field. The lectures will be delivered by the Congress key speakers who will address the fundamental problems in the area of artificial electromagnetic materials along with the practical aspects of microwave and optical applications. The course will combine lectures, problem-solving, self-study sessions, and short presentations by the participating students. Details of the School will be published at the dedicated page of the Congress website: <http://school.metamorphose-vi.org/>.