

NANOMETA 2007

First Call for Papers

Europhysics Conference

The 1st European Topical Meeting on Nanophotonics and Metamaterials

8-11 January 2007, Seefeld ski resort, Tirol, Austria

Organized by the European Physical Society in cooperation with the European Networks of Excellence, "Phoremot" (nanophotonics), "Metamorphose" (meta-materials) and "Plasmon Nano Devices"

The Conference will feature contributed oral and poster papers and talks invited at the discretion of the Program Committee.

Paper submission deadline: 15 September 2006.

More details will be available soon at www.nanometa.org

Program Committee

Ekmel Ozbay, Bilkent, Turkey · chair
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Yiannis Vardaxoglou, Loughborough, UK
Diederik Wiersma, LENS-Florence, Italy

The **NANOMETA 2007** will bring together the Nanophotonics and Metamaterials research communities and will be devoted to papers reporting new and challenging results in these burgeoning fields. The topics to be covered will include, **but are not limited to:**

- Negative index materials
- Microwave, millimeter, terahertz and optical applications of metamaterials
- Tunable and reconfigurable multifunctional metamaterials
- Computational modelling of metamaterials
- Chiral structures, random structures, fractals and quasi-crystals
- 2D and 3D Photonic bandgap structures
- Light in confined geometries and nanocavities
- Surface plasmon-polariton optics
- Nano-structured metallic and dielectric surfaces
- Near-field probing and nano-imaging
- Nano-transmission lines and nano-antennas
- Extraordinary transmission of metallic nanostructures
- Nano-lensing and nano-harvesting and nano-lithography
- Single molecule and single nanoparticle photonics
- Quantum and coherent effects in nanophotonics
- Nonlinear and ultrafast nanophotonics
- Interaction of electron beams with nanophotonic structures
- Random lasers and nanostructured light sources
- Nano-bio-photonics
- Optical atom trapping and manipulation in nanostructures