

EOS Topical Meetings at Capri 2009



27 - 30 September 2009, Capri, Italy

**3rd EOS Topical Meeting on Optical
Microsystems (OμS09)**

1st EOS Topical Meeting on Lasers

**Submission deadline
26 June 2009!**

Final Call

Topics

3rd EOS Topical Meeting on Optical Microsystems (OμS09)

- Plasmonics Photonic crystals and metamaterials
- Optical microsystems and microsensors
- Optofluidic microsystems and devices
- Nonlinear optic devices
- New characterisation methods for materials and devices
- Applications of optical systems

1st EOS Topical Meeting on Lasers

- Semiconductor lasers
- Fiber lasers
- Diode-pumped solid-state lasers
- Nonlinear optical devices
- Ultrafast lasers
- Materials for non-linear optics and lasers

EOS Topical Meetings at Capri 2009



Sponsoring

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3rd EOS Topical Meeting on Optical Microsystems (OμS09)

1st EOS Topical Meeting on Lasers

Abstract Submission

The **deadline for submission of abstracts** is **26 June 2009**. Abstracts shall only be submitted online via

www.myeos.org/capri

Authors are requested to submit an abstract of one page. The EOS guidelines for abstracts can be downloaded at

► www.myeos.org/files/EOSabstractguidelines_capri.pdf

Contributions will be accepted for **oral** and **poster presentation**. Please indicate preference. All accepted contributions are to be published in the EOS Topical Meeting Digest which will be available at the beginning of the meeting. All authors are requested to register for the meeting separately from abstract submission.

The **abstract submission will be open** from **1 April 2009**. Abstracts can only be submitted online via this website. If you would like to be alerted when the submission is opened, please send an email to capri@myeos.org.

EOS Annual General Meeting (AGM)

The Annual General Meeting (AGM) of the EOS will be held in conjunction with the two Topical Meetings on the 28th of September 2009.

Venue

Capri is a beautiful and picturesque island in the Gulf of Naples that has been attracting countless visitors for thousands of years. Its mild climate, the numerous monuments and island highlights and last but not least the excellent Italian cuisine and wine culture make Capri a perfect location for high-quality EOS Topical Meetings in an enjoyable mediterranean atmosphere. See also:

► www.capri.it

Travel & Accommodation

A list of recommended hotels and information about how to get to Capri will be provided at

► www.myeos.org/capri

Contact

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capri@myeos.org

3rd EOS Topical Meeting on Optical Microsystems (OμS09)

Organized in cooperation with the
Italian Branch of the EOS



Synopsis

OμS'09 is the 3rd edition of an international conference wholly dedicated to Optical Micro-Systems. It is organized by the European Optical Society (EOS) in the frame of its international Topical Meeting activity and will be held in Italy, 27th September 2009 - 30th September 2009, amidst the wonderful scenery of the Island of Capri.

A possible definition of an optical microsystem is a complex system, able to perform one or more sensing and actuation functions, where optical devices are integrated in a smart way with electronic, mechanical and sensing components by taking advantage of the progress in micro- and nano-technologies.

The increasing interest in this field arises from the expected applications that would significantly improve the quality of life. The list of possibilities offered by the optical microsystem enabling technologies is very long and seems to increase day by day. Optical-Micro-Systems will be at the base of the next generation not only of optical telecommunication networks and computers, but also for biotechnologies, environmental monitoring, sensors to improve safety in the avionic and automotive fields, health diagnostics and proteomic/genomic studies, imaging.

The conference programme will focus on fundamental as well as more applied topics. Microfluidic systems, optofluidic-systems, photonic crystals, non-linear and quantum optics in micro-devices, nanophotonic-based devices, silicon-based optoelectronics and MOEMS, microsensors, biochips and the new characterization methods for materials and devices were among the hot topics of the conference.



Chairs



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CNR-IMM, IT



Eugenio Fazio
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Pietro Ferraro
CNR-INOVA, IT

Local Organizing Committee

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CNR-INOVA, IT

M. Alonzo, I. Ialongo, V. Bonacquisti;
Università La Sapienza di Roma, IT

Keynote speaker



Steven R. J. Brueck

University of New Mexico, US

"Imaging Interferometric Microscopy - Resolution to the Linear Systems Limits"



Stephen Y. Chou

Princeton University, US

"Subwavelength Optical Elements and Nanoimprint Technology for Miniaturization and Wafer-Scale Integration of Optical System"



Nasser Peyghambarian

College of Optical Science, University of Arizona, US

"New plastic materials for photonic applications"

Invited Speakers



Giles Davies,

University of Leeds, UK



Paolo De Natale,

CNR-INOVA, IT



Jürgen Kreuzer,

Dalhousie University, US



Gilles Lerondel,

University of Technology of Troyes
(FR)



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California Institute of Technology (US)



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University of California, US



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El-Hang Lee,

Inha University (KR)



Thomas Naughton,

National University of Ireland (IE)



Henri Rajbenbach,

European Commission, BE



Jim Schuck,

The Molecular Foundry, Lawrence
Berkeley National Laboratory (US)

joint session on "Tailored nonlinear media" together with the EOS Topical Meeting on Lasers

Eric Lallier,

Thales Research & Technology, FR



Wolfgang Sohler,

University of Paderborn, DE

TOPICS

Plasmonics Photonic crystals and metamaterials

- Materials, fabrication techniques, characterisation
- Numerical methods
- Passive and active devices
- Nonlinear response

Optical microsystems and microsensors

- MEMS, MOEMS, NEMS
- New materials and technologies
- New active and passive devices in optoelectronics
- Silicon based microsystems
- Electro-optic materials
- Polymer-based devices
- Liquid crystal- and organic material-based devices
- Smart sensors and transducers
- Physical and chemical sensors
- Sensing and actuation
- Fibre-optic sensors

Optofluidic microsystems and devices

- Nanomaterials and devices
- Bio-optofluidics
- Imaging, sorting, circuits
- Adaptive interconnections and devices
- Multifunctional devices

Nonlinear optical devices

- Materials and phenomena
- Periodically-poled devices
- Micro-nano engineering of ferroelectric materials

- Solitons, soliton waveguides and 3-D circuits
- Adaptive interconnections and devices
- Multifunctional devices

New characterisation methods for materials and devices

- Interferometric techniques for imaging and testing
- Scanning probe/optical microscopy, SNOM
- High-super resolution methods in optical microscopy

Application of optical systems in:

- Information society technology
- Automotive, avionics and aerospace
- Environment, geophysics and microgravity
- Genomics and proteomics
- Health, food and agriculture
- Homeland security
- Material processing
- Cultural heritage

Biosensors and biochips:

- Principles and Applications of Optical Biosensors and Biochips
- Micro- and Nano-System Technologies for Optical Biosensors and Biochips
- Novel Configurations based on Photonic Crystals and Resonant Cavity Structures
- New Signal Transduction Technologies
- Bio-inspired optical micro and nano-devices

Abstract submission details: see page 2

Synopsis

The European Optical Society (EOS) is proud to present their first topical Meeting on Lasers to be held in Italy, 27th - 30th September 2009, at the Island of Capri, Italy.

Laser physics and technology is a very diverse field in rapid development and of utmost importance for technological development in the 21st century. Advances in semiconductors, fibre lasers, solid-state lasers, parametric devices and nonlinear frequency conversion provide powerful tools for an increasingly broad range of applications including spectroscopy, metrology, remote sensing, communications, entertainment and display technology, material processing, astronomy, biology and life sciences. Europe has a strong position in the field of laser physics and technology, and the aim of this meeting is to further strengthen this position.

The conference programme will focus on fundamental as well as more applied topics. The major subjects will be: Semiconductor lasers, quantum-dot lasers, diode-pumped lasers, fiber lasers, nonlinear frequency conversion, parametric devices, ultrafast lasers, materials for lasers and nonlinear optics.



Chair



Fredrik Laurell

Royal Institute of Technology,
KTH, SE

Programme Committee

Peter Andersen, DTU, DK

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OPTICAL SOCIETY
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Journal of The European Optical Society Website

www.myeos.org

The European Optical Society Website

JEOS:RP focus issue on lasers
Papers related to the topics of this
meeting can be published
at a **special rate**
(members: 280 € | non-members: 320 €).

Contact us for details at
torok@myeos.org.

Invited speakers



Andy Clarkson,

University of Southampton, UK

“Power two-micron fibre sources: Recent progress and future prospects”



Jerome Faist,

ETH Zurich, CH

“Quantum cascade lasers”



Günter Huber,

University of Hamburg, DE

“Diode pumped Er- and Pr- lasers in the visible spectral region”.



Oleg G. Okhotnikov,

Tampere University of Technology, FI

„Frequency converted and modelocked VECSEL, and their power scaling”



Wilson Sibbett,

University of St Andrews, UK

“Femtosecond lasers incorporating quantum-dot media”



Bernd Sumpf,

Ferdinand-Braun-Institut für Höchstfrequenztechnik, DE

“Red and NIR emitting highly brilliant laser sources based on semiconductor diode lasers”

joint session on "Tailored nonlinear media" together with the EOS Topical Meeting on Optical Microsystems (O μ S'09)

Eric Lallier,

Thales Research & Technology, FR



Wolfgang Sohler,

University of Paderborn, DE

“Towards PPLN Photonic Wires”

TOPICS

Semiconductor lasers

- Materials, fabrication techniques, characterisation
- Passive and active devices
- Optically pumped disc lasers
- Quantum dot lasers
- High power diode lasers
- GaN lasers

Fibre lasers

- New materials and technologies
- Double clad fibers and amplifiers
- Photonic crystal fiber lasers
- Bismuth fiber lasers
- Polymer fiber lasers

Diode-pumped solid-state lasers

- Micro-chip lasers
- Thin disc lasers
- Single frequency lasers
- Tunable lasers
- Lasers with volume Bragg gratings
- Ultrafast lasers
- Novel laser materials

Nonlinear optical devices

- Quasi Phasematching devices
- Novel nonlinear materials and structures
- Parametric devices

Abstract Submission details: see page 2

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1/1 page in the programme (b/w) 500 €
1//2 page in the programme (b/w) 300 €

Table Top unmanned 550 €

Coffee break sponsoring for 1 Topical Meeting 800 €

Coffee break sponsoring for both Topical Meetings 1300 €

Delegate T-Shirts 1500 €

Delegate folder inserts 650 €

Reception sponsoring 1750 €

Electronic advertising at event websites

180 x 600 px, fixed 2000 €
180 x 400 px, fixed 1500 €
180 x 200 px, fixed 800 €
180 x 400 px, alternating 750 €
180 x 200 px, alternating 400 €

Contact

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280 € (member rate)

320 € (non-member rate)

Submission deadline

Please check www.myeos.org for submission deadlines or send an email to info@myeos.org.