

DATES AND DEADLINES

Abstract submission deadline:	9 September 2011
Notification to authors:	beginning of October 2011
Publication of the Advance Programme:	17 October 2011
Early-bird registration deadline:	4 November 2011

ABSTRACT SUBMISSION

The abstract submission is open until 9 September 2011. Authors are requested to submit an extended abstract of a maximum of two pages and preferably with at least one figure. Detailed information on the EOS guidelines for abstract submission can be found at www.myeos.org/events/abstractsubmission.

Contributions will be accepted for oral and poster presentation. Please indicate preference. All accepted contributions are to be published on the EOS Topical Meeting Digest CD-ROM which will be distributed on-site. All authors are requested to register for the meeting separately from abstract submission. Abstracts can only be submitted online via www.myeos.org/events/bremen2011.

REGISTRATION

All information on our registration fees and conditions will be published in August 2011 at our event website: www.myeos.org/events/bremen2011.

PAPER PUBLICATION IN JEOS:RP

All regular attendees of this EOS event receive a 20% discount on the publication rate for the Journal of the European Optical Society - Rapid Publications (JEOS:RP). The paper submitted must be an original contribution that is connected to this Topical Meeting and must be submitted no later than 31 January 2012 (www.jeos.org).

Publication rates:

320 € (instead of 400 €) for non-members

280 € (instead of 350 €) for full EOS members

JEOS:RP will dedicate a special issue to micro- and nano-optoelectronic systems. This special issue will be refereed and is planned to appear timely after the conference.

SPONSORING OPPORTUNITIES

Interested in presenting your products at this EOS Topical Meeting? Here your products don't drown in the crowd! Please download the **Sponsor's and Advertiser's Guide** for Bremen 2011 or contact Julia Dalichow at bremen@myeos.org.

INVITATION LETTERS

If you require an invitation letter for this meeting, please fill in the invitation letter form at www.myeos.org/events/invitation.

VENUE AND SOCIAL PROGRAMME

JOIN OUR WALKING TOUR THROUGH THE HISTORIC CITY CENTRE FOLLOWED BY A FESTIVE DINNER AT THE BREMER RATSKELLER!

Discover and experience Bremen's key attractions that include the idyllic Schnoor Quarter and Böttcherstreet. Let yourself be enchanted by stories on patrician buildings round the Market Square, the city's history and local residents and take a picture of the Town Hall and Roland statue (UNESCO World Heritage Site). Bremen's Market Square is regarded as one of the most beautiful in Europe. In December, the festive season bathes Bremen in a soft light; fairy lights, candles and the lovingly adorned stalls create a special atmosphere. The Christmas market will be an outstanding experience during your visit to Bremen with its air full of delicious aromas and the "Glühwein" (mulled wine) which you are going to taste. There are numerous Christmas stalls, wonderfully romantic and beautifully decorated, assembled right in front of the town hall on the historical market square. After the guided walk through the historic city centre, you will stop at Bremen's Ratskeller where your evening will continue with a festive dinner. The Ratskeller is one of Germany's oldest and most famous cellar taverns since 1405. More than 650 only German wines are served here.

More information on the social programme and conference dinner will soon be published at www.myeos.org/events/bremen2011.

TRAVEL AND ACCOMODATION

Rooms at a special rate have been blocked at the venue hotel:

Ringhotel Munte am Stadtwald

Parkallee 299 | 28213 Bremen

Phone: +49 (0) 4 21 2 20 2-0 | Fax: +49 (0) 4 21 2 20 26 09

Email: info@hotel-munte.de

Price per single room: 95 €/night

Booking Code: "1st EOS Topical Meeting"

Please refer directly to the hotel reservation and note that rooms must be booked well in advance by 21 October 2011.

We are looking forward to welcoming you in Bremen!

CONTACT

EOS - Events & Services GmbH

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1st EOS Topical Meeting

on Micro- and Nano-Optoelectronic Systems

7 - 9 December 2011

Ringhotel Munte am Stadtwald, Bremen, Germany

Featuring the Special Session on Digital Holography on the occasion of Werner Jüptner's 70th birthday, 9 December 2011

Final Call for Papers



www.myeos.org/events/bremen2011

Partners:

bias
Bremer Institut für
angewandte Strahltechnik

IMSAS
Institut für Mikrosensoren, -aktoren und -systeme

SYNOPSIS

The European Optical Society, in cooperation with the Bremer Institut für angewandte Strahltechnik GmbH (BIAS) and the Institute for Microsensors, -actuators and -systems (IMSAS), is organizing the "1st EOS Topical Meeting on Micro- and Nano-Optoelectronic Systems" in Bremen from 7 - 9 December 2011, featuring a special session on Digital Holography on Friday, 9 December on the occasion of Werner Jüptner's 70th birthday.

The focus of the conference will be to explore new developments and applications in the field of optoelectronic systems using approaches based on micro- or nano-optics. Potential topics include (but are not limited to) design, simulation and fabrication of micro- and nano-optical systems, integration of micro- and nano-optical systems in micro-electronics, novel functionality, applications of microsystems using micro- and nano-optics including optical metrology and sensors. The last day of the conference will be devoted to digital holography with an emphasis on microsystems on the occasion of the 70th birthday of Werner Jüptner, former director of BIAS.

SCIENTIFIC COMMITTEE

CHAIRS

Ralf B. Bergmann

Bremer Institut für angewandte Strahltechnik GmbH (BIAS) (DE)

Walter Lang

Institute for Microsensors, -actuators and -systems (IMSAS) (DE)

PROGRAMME COMMITTEE

Anand Asundi, Nanyang Technological University (SG)

Uwe Behringer, UBC Microelectronics (DE)

Stephanus Büttgenbach, IMT, TU Braunschweig (DE)

René Dändliker, emeritus prof. (CH)

Cosme Furlong, WPI Worcester Polytechnic Institute (US)

Christophe Gorecki, FEMTO-ST, UFT des Sciences et Techniques (FR)

Steen Gruner Hanson, DTU Fotonik, Department of Photonics

Engineering, Technical University of Denmark (DK)

Werner Jüptner, University of Aberdeen (SCO)

Christoph von Kopylow, Bremer Institut für angewandte Strahltechnik GmbH (BIAS) (DE)

Michael Küchel, emeritus prof. (DE)

Malgorzata Kujawinska, Institute of Micro-mechanics and Photonics, Warsaw University of Technology (PL)

Bernd Michel, Micro Materials Center, Fraunhofer ENAS (DE)

Pramod Rastogi, EPFL - Ecole Polytechnique Fédérale de Lausanne (SUI)

Lutz Rissing, Institut für Mikroproduktionstechnik, Leibniz Universität Hannover (DE)

Ventseslav Sainov, Bulgarian Academy of Sciences, Institute of Optical Materials and Technologies (IOMT-BAS) (BG)

Mitsuo Takeda, The University of Electro-Communications, Graduate School of Informatics and Engineering (JPN)

TOPICS

- **Design, simulation and fabrication of micro- and nano-optical systems**
 - Wave field propagation, rigid simulation and calculation
 - Geometrical optics for microsystems
 - Improving flexibility and efficiency
 - 2D/3D methods
- **Integration of micro- and nano-optical systems in micro-electronics**
 - On-chip optical functionalities
 - Photonics integrated circuit platform
- **Novel functionalities**
 - Overcoming diffraction limitations
 - Smart materials by micro- and nano-optics
 - New materials
- **Optical metrology for and by micro- and nanosystems**
 - Advancing standard methods by microsystems
 - Cheap and flexible measurement systems
 - Remote sensing systems in one-way applications
 - Autonomous systems
 - Novel imaging systems
- **Application of microsystems using micro- and nano-optics including sensors**
 - Optical data preprocessing
 - Computation and signal processing functions build-in at sensor level
 - Remote sensing using disposable sensors
 - Monitoring of gases, metals, chemicals
 - Industrial metrology and quality control
 - NDE by micro- and nano-optical systems
 - Structural health monitoring
 - 3D vision
 - Consumer applications
- **Digital holography with an emphasis on microsystems**

CONFIRMED INVITED SPEAKERS

KEYNOTE SPEAKER

- **Andreas Tünnermann**, Fraunhofer Institut für Angewandte Optik und Feinmechanik (FhG-IOF) (DE)
Title: *Trends in mobile imaging – small lenses go big*

INVITED SPEAKERS

- **Brian Culshaw**, Center for Microsystems and Photonics, University of Strathclyde (SCO)
Title: *Probing the micro world with lasers and ultrasound – some preliminary impressions*
- **Jens Dorfmueller**, 4. Physikalisches Institut, Universität Stuttgart (DE)
Title: *Complex plasmonic nanostructures and their electromagnetic fields*
- **Alberto Garcia-Ortiz**, Institut für Theoretische Elektrotechnik und Mikroelektronik, Universität Bremen (DE)
Title: *Challenges of the on-chip system interconnects: an opportunity for integrated nano-optoelectronic systems*
- **Ulrich Hofmann**, Fraunhofer Institut für Siliziumtechnologie ISIT (DE)
Title: *Vacuum packaged MEMS scanning mirrors*
- **Jürgen Jahns**, FU Hagen (DE)
Title: *Reflective-type integrated microsystems*
- **Wolfgang Osten**, Institut für Technische Optik, Universität Stuttgart (DE)
Title: *Different approaches to overcome existing limits in micro and nano metrology*
- **Ryszard J. (Rich) Pryputniewicz**, Worcester Polytechnic Institute (US)
Topic: *Digital Holography*
- **Jim Trolinger**, MetroLaser Inc. (US)
Title: *Picosecond, Gated, Digital Holography for Imaging in Dense Sprays*
- **Michiel Vellekoop**, TU Wien (AU)
Title: *Optofluidic lenses for on-chip cytometers*
- **Michael J. Wale**, Oclaro Technology Plc (UK)
Titles:
 - *Photonics²¹: The European Technology Platform for Photonics*
 - *Integrated Photonic Systems on a Chip: Achievements and Prospects*

