

**EOS Member
Newsletter
July 2007**

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EOS Office

European Optical Society
Hollerithallee 8
D - 30419 Hannover
Tel.: +49 (0) 511-2788-115
Fax: +49 (0) 511-2788-119
E-Mail: info@myeos.org

EOS events

Successful EOS Conferences on Frontiers in Electronic Imaging and Trends in Optoelectronics at the World of Photonics Congress

The EOS conferences on Trends in Optoelectronics & Frontiers in Electronic Imaging were a great success. With over 200 attendees the EOS could increase their attractiveness.

A special thanks goes to the chairs.

For Electronic Imaging:

**Peter Seitz
(General Chair)**
University of Neuchâtel and
CSEM SA (Switzerland)

Abbas El Gamal
Stanford University (USA)

Boyd Fowler
Fairchild Imaging Inc. (USA)

Shoji Kawahito
Shizuoka University,
Hamamatsu (Japan)

Edoardo Charbon
EPFL (Switzerland)

For Trends in Optoelectronics:

**Dieter Jaeger
(General Chair)**
University of Duisburg
(Germany)

Satoshi Ishihara
OITDA - Optoelectronic Industry and Technology Development Association (Japan)

Michael Lebby
OIDA – Optoelectronics Industry Development Association (USA)

EOS events

EOS Special Session on The Grand Challenges of Photonics..

By the same token, the session the grand challenges of photonics appealed very well among the ~ 120 participants. We would like to thank the lecturers for their special commitment:

- Herbert Welling, LZH, Germany
- Andreas Tünnermann, Fraunhofer IOF Jena, Germany
- Michael Lebby, OIDA, USA



- Valery Tuchin, Saratov University, Russia
- Mario Bertolotti, Università "La Sapienza", Roma, Italy



- Gerard Mourou, ENESTA, France
- Fredrik Laurell, KTH Stockholm, Sweden

EOS General Assembly 2007

This year's Annual General Meeting of the EOS was held on **Wednesday, 20th June 2007 from 17.30 to 19.00 in Munich co-located with LASER 2007 World of Photonics**



At the AGM the membership approved the proposed changes to the EOS constitution: http://www.myeos.org/files/eos_resolutions2007.pdf.

The minutes of the General Assembly will be available on the website <http://www.myeos.org/members>



EOS Fellows 2007 appointed at the General Assembly in Munich...

At the Annual General Meeting, the past president and chairman of the Fellowship Committee, Joseph Braat, announced the EOS Fellows 2007:



Klaus Biedermann

"For his work to establish the European Optical Society and the Swedish Optical Society, for his contributions to holography and visual optics, and for a lifelong effort to promote collaboration in optical science between industry and academia"



Magnus Breidne

"For his work and effort for the European Optical Society and for his leadership in optics and photonics, for his work with the European Optical Society and efforts to initiate collaboration on the international and national level"



David Briers

"For his many important contributions to optics teaching and research, and for his highly valued services, past and ongoing, to the European Optical Society"

Pierre Chavel,

"For his outstanding contributions to the field of Optical Information Processing and for his leading and constant actions to promote international collaborations, advanced research and teaching in Optical Sciences"

Anna Consortini

"For her important contributions to basic diffraction theory and light propagation in random media and for the crucial role she played in the founding of EOS itself and in the worldwide organization and recognition of optical science, among others as the ICO-president from 1993 to 1997"



Chris Dainty

"For his highly influential contribution to optics teaching and research, and for his committed leadership of the optics community in general and the European Optical Society in particular"

Peter Knight

"For his countless seminal contributions to quantum optics and quantum information research, for his outstanding leadership of the international optics community, and for his unique combination of educational, organizational and personal talents"

Stefan Kröll

"For his research achievements in high-resolution spectroscopy and quantum optics, for his service to the optics community, and for his teaching of ad-

vanced optical physics"

Ad Lagendijk

"For his research achievements in light propagation in structured and disordered media, for his challenging way of coaching many young scientists and for his original views on the scientific world, as written down in numerous newspaper columns"

Anders Larsson

"For his contribution to semiconductor lasers and diffractive optics and for his teaching and leadership in optics"

Gerd Leuchs

"For his important contribution to optical science, through countless seminal contributions to fundamental problems in quantum optics and quantum information"

Miroslav Miler

"For his lifelong contribution to diffractive optics and holography and the development of these disciplines in the Czech republic in particular"

Wolfgang Schleich

"For his numerous pioneering and seminal contributions to theoretical quantum optics and new perspectives for the understanding of the quantum nature of light and its interaction with matter"

Jakob Stamnes

"For his seminal contributions to optical diffraction theory and its applications in other fields of physics and for his outstanding contribution to science education via his book *Waves in the focal region*"

Wilson Sibbett

"For his numerous pioneering contributions to ultra-short pulse laser science and Technology, including the development of Kerr-lens mode-locked lasers, and for his promotion of optical science on the national and international stage"

Hugo Thienpont

"For his incessant promotion of the sciences of optics and photonics in his own university, in Belgium and in Europe in general with a particular emphasis on modern and original teaching projects for young people"

Han Woerdman

"For his original theoretical and experimental work in classical and quantum optics with a particular interest in translating open theoretical questions into simple and fundamental experiments"

EOS Prize 2007 awarded at the General Assembly in Munich

Thanks to Pierre Zaleski, the former administrator of Europtica Services IC (ESIC), EOS has received a donation from the capital remaining after the dissolution of ESIC. According to the

wishes expressed by ESIC, this donation will be managed in such a way as to generate revenue to be used for an EOS prize to promote OPTICS in the widest form in Europe



The EOS Prize Committee presents the EOS Prize 2007 to:

M. Lassen^{1,2}, **V. Delaubert**^{1,3}, **C.C. Harb**^{1,4}, **P.K. Lam**¹, **N. Trebs**³, **H.-A. Bachor**¹

¹ The Australian National University, ACQOA, Canberra ACT 0200, Australia

² Department of Physics, DTU, Building 309, DK-2800 Lyngby, Denmark

³ Laboratoire Kastler Brossel, 4 place Jussieu, case 74, Paris 75252 Cedex05, France

⁴ School of Information Technology and Electrical Engineering, University College, The University of New South Wales, Canberra, ACT 02600, Australia

for their outstanding contribution on

Generation of squeezing in higher order Hermite-Gaussian modes with an optical parametric amplifier

Published in the Journal of the European Optical Society – Rapid Publications Vol 1, 06003 (2006)

JEOS:RP_publications

New publications in JEOS:RP

Several new papers were published in JEOS:RP, the electronic Journal of the European Optical Society Rapid Publications at www.jeos.org.

JEOS:RP is an open-access journal. To read the full papers, please click on the links:

Improved perturbation method for absorption map reconstruction in diffusion optical tomography[07015]

H.-C. Feng, J. Bai

https://www.jeos.org/index.php/jeos_rp/article/view/07015

All-optical switch based on liquid-crystal infiltrated photonic bandgap fiber in transverse configuration[07016]

J. Tuominen, H. J. Hoffrén, H. Ludvigsen

https://www.jeos.org/index.php/jeos_rp/article/view/07016

High sensitivity photonic crystal pressure sensor[07017]

D. Biallo, M. De Sario, A. D'Orazio, V. Marrocco, V. Petruzzelli, M. A. Vincenti, F. Prudenzeno, T. Stomeo, M. Grande, G. Visimberga, R. Cingolani, M De Vittorio

JOURNAL OF THE
EUROPEAN OPTICAL SOCIETY
RAPID PUBLICATIONS

EOS European Optical Society
www.jeos.org

https://www.jeos.org/index.php/jeos_rp/article/view/07017

Experimental validation of the reverse polar decomposition of depolarizing Mueller matrices[07018]

M. Anastasiadou, S. Ben Hatit, R. Ossikovski, S. Guyot, A. De Martino

https://www.jeos.org/index.php/jeos_rp/article/view/07018

Design and fabrication of an all-dielectric grating with top-hat high diffraction efficiency over a broad spectral range [07019]

N. Lyndin, M. Flury, S. Tonchev, R. Fechner,

O. Parriaux

https://www.jeos.org/index.php/jeos_rp/article/view/07019

Quantitative analysis of the thermal distortions in a 100 W CW ND:YAG ceramic slab laser [07020]

A. Lapucci, M. Ciofini, E. Favilla, E. Sani, M. De Rosa, G. Mincuzzi, A. S. D. Rocco

https://www.jeos.org/index.php/jeos_rp/article/view/07020

Dyakonov--tamm wave at the planar interface of a chiral sculptured thin film and an isotropic dielectric material

A. Lakhtakia, J.A. Polo Jr.

https://www.jeos.org/index.php/jeos_rp/article/view/07021

Publication rates

EOS Member rate: 350 €

Non-member rate: 400 €

Author information

Click https://www.jeos.org/index.php/jeos_rp/information/authors

to read the JEOS:RP author guidelines.



Contact

Peter Török

(Deputy Editor)

torok@myeos.org

www.jeos.org



Hungarian Optical Society
(HOS)

IOP Institute of Physics
Optical Group



Affiliated Societies

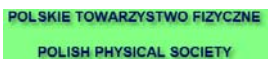
Comité Belge d'Optique
CBO - BCO Belgisch
Comite voor Optica

Czech and Slovak Society
for Photonics (CSSF)



FINNISH OPTICAL
SOCIETY (FOS)

Nederlandse Vereniging voor Fotonica



ROMANIAN
OPTOELECTRONICS
SOCIETY (ROS)

SOCIEDAD
ESPAGNOLA DE
OPTICA (SEDO)



EOS events

Open Calls-for-Papers and announcements for upcoming EOS Topical Meetings in 2007

EOS Topical Meeting on Advanced Imaging Techniques
12-14 Sept. 2007; Lille, France

Topics

- Advanced techniques in microscopic and lithographic imaging
- Advanced imaging in astronomy
- Phase contrast imaging
- Quantum imaging
- Optical coherence and diffraction tomography
- Adaptive optics
- Optical data storage
- Biomedical imaging
- Imaging with metamaterials
- Use of phase singularities in imaging
- Instrumentation
- New technologies

Programme available on the EOS website

Contact and more information
lille@myeos.org
www.myeos.org/lille

2nd EOS Topical Meeting on Optical Microsystems
30 Sept. - 3 Oct. 2007; Capri, Italy

Topics

- Optical microsystems and micro-sensors
- Optofluidic microsystems and devices
- Photonic crystals and metamaterials
- Nonlinear optic devices
- New characterisation methods for materials and devices
- Application of optical systems in:
 - Information society technology
 - Automotive, avionics, aerospace
 - Environment, geophysics and microgravity
 - Genomics and proteomics
- ...

Programme will be available soon

Contact and more information
ivo.rendina@na.imm.cnr.it
www.myeos.org/capri

6th EOS Topical Meeting on Diffractive Optics
20 - 23 Nov. 2007; Barcelona, Spain

Topics

- Modeling of DOEs by rigorous and approximate techniques
- DOE design theory and techniques
- Fabrication of DOEs
- Characterization of DOEs
- System integration
- Modeling of optical systems that include DOEs
- Programmable DOEs
- Sub-wavelength structures
- Photonic crystals
- Novel materials
- Metamaterials
- ...

Submission deadline
07 September 2007

Contact and more information
barcelona@myeos.org
www.myeos.org/barcelona

Contact
Petra Bindig
bindig@myeos.org

EOS events

Open Calls-for-Papers and announcements for upcoming EOS Topical Meetings and Short Course in 2007 and 2008

3rd EOS Short Course on Optical Fabrication Technology
11 - 12 October 2007; St. Gallen, Switzerland

Topics

- History of optical fabrication
- Requirement for optics
- Definition of OFT
- Optical materials
- Polishing
- Applications
- Shaping process
- State-of-the-art OFT
- Current and future application and requirements
- Review on current research projects
- ...

Programme available on the EOS website

Contact and more information
st.gallen@myeos.org
www.myeos.org/st.gallen

EOS Topical Meeting on Photonic Devices and their application in health & medicine
March 31 - April 2, 2008; Utrecht,

Topics

- Novel and highly efficient light sources
- Imaging techniques and display technology
- Photonic devices for spectroscopy
- Photonic biosensors
- Optical coherence tomography
- Near-field photonic sensing
- ...

Call for papers will be open soon

Contact and more information
utrecht@myeos.org
www.myeos.org/utrecht

First Mediterranean Photonics Conference
25 - 28 June 2008, Ischia, Italy

Topics

- Polymers, carbon nanotubes and metamaterials for photonics
- Post silicon materials, devices and technology
- Micro and nanophotonics devices
- Photonic crystals
- Optical fibers, guided and integrated optics
- ...

Submission deadline
31 March 2008

Contact and more information
paola.ambrosino@unisannio.it

spotlight_europe

Collaborators in the OPERA 2015 project



OPERA2015 website is providing a framework for adequate interaction of European IST research in the area of Optics and Photonics and to develop a comprehensive strategic approach for the key technology in order to shape the future of this highly important industrial area for the European Union. Furthermore it provides selected news, information and documents around a variety of topics in the field of Optics and Photonics.

Further information you will find under: www.opera2015.org

OPERA2015 collaborators are the following:

- DAS Photonics S.L. is a spin-off company from the Valencia Nanophotonics Technology Centre (NTC), Politecnica University of Valencia (Spain).
- Fotónica21: Spanish Technology Platform.
- ICFO. The Institute of Photonics Sciences.
- GTF. Photonics Technologies

- The Department of Electrical and Electronic Engineering of Navarra University.
- Centre of Physics in Minho University.
- Spanish Optoelectronics Committee.
- NEMO (Network of Excellence on Micro-Optics).
- ERA-SPOT aims at consolidating the research funding activities in Optical Technology
- UROOF (Photonic components for ultra wideband Radio over optical fibre)
- LANCER (Light Amplifiers with NanoClusters and Erbium Project).
- IPHOBAC (Integrated Photonic mm-Wave Functions For Broadband Connectivity).
- ACCORD (Advanced Components Cooperation for Optoelectronics Research and Development).
- PLASMOCOM (Polymer-based nanoplasmonic compo-

spotlight_europe

7th European Framework Programme for research and technological development has begun

Framework Programme for Research and technological Development of the European Commission (FP7) occurred at the end of December 2006.

For the whole Europe, 50,5 billion Euro are provided for funding cross-border R&D projects for the period 2007-2013, which corresponds to an annual allocation of 7,22 billion €, an increase of more than 40% compared to the previous programme.

The 7th Framework Programme consists of **four specific programmes**, which correspond to the four main objectives pursued by the European research policy.

The „**Cooperation**“ field (32,365 billion €) is sub-divided into 10 thematic priorities focusing on trans-national research cooperation within the scope of joint projects and networks.

The „**Ideas**“ field (7,460 billion €) deals with the formation of a European Research Council (ERC) in order to support “Frontier Research”, as researchers have suggested.

The „**People**“ field (4,728 billion €) supports measures called the „Marie Curie actions“, encouraging training and career development of researchers.

The „**Capacities**“ field (4,217 billion €) supports central aspects of the amelioration of innovation capacities throughout Europe, like the development of research infrastructures, research for the benefit of small and medium-sized enterprises

(SMEs) or the reinforcing of intensive cluster initiatives in research at regional level.

Besides, a specific programme deals with non-nuclear research activities of the Joint Research Centre (1,751 billion €) and it is also to mention the nuclear research programme EURATOM, for which 4,061 billion € are provided.

Apart from a few exceptions, proposals require an international consortium of applicants who have to be located in different European countries. The formation of a consortium should always take the added value chain of the targeted product or process into account. For the rest, if necessary, the relevant regional Innovation Relay Centre (IRC) can help find appropriate partners. A lot of them don't only support the consortiums during the application period but also help them in the project implementation by assuming significant parts of the project management.

Moreover, the EU supports the formation of international project groups through the promotion of cluster initiatives in the field of optic technologies. The **OMNINET** Project is an outstanding example for this, led by the French initiative Optic Valley and composed by 15 partners from 6 European countries.

You will find further information under:

http://cordis.europa.eu/fp7/ict/photronics/home_en.html

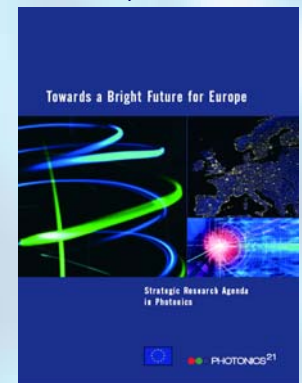
<http://www.europe-innova.org>



... is a strategic project funded within the 6th Framework Programme of the EU and is dedicated to developing a joint strategy for optics and photonics in Europe.

The EOS is a member of the OPERA2015 consortium. www.opera2015.org

The first Photonics Strategic Research Agenda “Towards a Bright Future for Europe” was finalised in April 2006.



Download: [Photonics SRA](#) (pdf-file; 4.55 MB)



... is a Technology Platform for all stakeholders in photonics and has more than 400 members from all over Europe and beyond.

The EOS is a member of Photonics21 and is represented in the Executive Board by the former EOS President Chris Dainty (National University of Galway, Ireland).

EOS EU Representative Peter Seitz is a member of the Board of Stakeholders of Photonics 21.

www.photonics21.org