

EOS Member Newsletter

March 2007

Topics in this issue:

WoP 2007: Post-dead-line presentations welcome	1
Prize and Fellows Nominations 2007	1
EOSAM 2007	1
3rd EOS Short Course on Optical Fabrication Technology	2
Advance notice: 6th EOS Topical Meeting on Diffractive Optics (DO 2007)	2
EOS Topical Meeting on Advanced Imaging Techniques	3
Upcoming co-sponsored events	3
EOS co-sponsorship	3
New Publications in JEOS:RP	4
Mario Armenise new SIOF President	4
SIOF Directory	4
FP 7 reimbursement model and selection criteria	5
FP 7 Photonics Infoday	5

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EOS events

WoP 2007: Post-deadline presentations welcome

A few post-deadline submissions can be accepted for oral or poster presentations at the EOS Conferences on Trends in Optoelectronics & Frontiers in Electronic Imaging.

These EOS Conferences are held under the umbrella of the World of Photonics Congress 2007 and alongside the Laser 2007 exhibition.

Interested authors can submit their abstracts online at www.myeos.org/munich. Key facts of the two conferences:

EOS Conference on Trends in Optoelectronics June 18 - 19, 2007

General Chair: Dieter Jäger
(University of Essen-Duisburg, Germany)



Venue: International Congress Centre Munich (ICM)

Sub-conferences:

Lighting & Displays

Chair: Satoshi Ishihara
(OITDA, Japan)

Information & Communication

Chair: Michael Leiby (OIDA, USA)

EOS Conference on Frontiers in Electronic Imaging June 18 - 20, 2007

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

Sub-conferences:

Application Specific Image Sensors

Chairs: Abbas El Gamal
(Stanford University, USA), Boyd Fowler
(Fairchild Imaging, USA)

High-Performance 3D Imaging

Chair: Shoji Kawahito
(Shizuoka University, Japan)

Single-Photon Imaging

Chair: Edoardo Charbon
(EPFL, Switzerland)

Advance programme

The advance programme will be published at www.myeos.org/munich within the next few days.

World of Photonics Congress 2007:
www.photonics-congress.com

Contact

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inside EOS

Prize and Fellow Nominations 2007

All EOS members are invited to nominate candidates for the EOS Prize 2007 and for new EOS Fellows.

EOS Prize 2007: The conditions for eligibility are that the work was performed in Europe, is published under the auspices of the EOS (for e.g. in an EOS journal or at an EOS event) and that the work has not been awarded before by another prize committee.

The deadline for nominations is **16 April 2007**. More information about the Prize rules: www.myeos.org/news.php?id=59

EOS Fellows 2007: The category of EOS Fellow may be conferred upon distinguished members of the society who have made outstanding contributions to optics and photonics, the optics and photonics community or to the EOS as a society.

An EOS Fellowship is the high-



EOS Past President Joseph Braat is the Chairman of the Prize and Fellowship Committee

est category of membership of the EOS.

The deadline for nominations is **16 April 2007**. More information about the Fellow nominations: www.myeos.org/news.php?id=58

Contacts

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inside EOS

EOSAM 2007

EOSAM 2007 will be held alongside the EOS Conferences on Trends in Optoelectronics and Frontiers in Electronic Imaging.

Access to the meeting room requires a ticket for the Laser 2007 exhibition. EOS Members can get a free ticket at the EOS counter in the entrance hall.

Venue: Munich, Germany.

EOS meeting schedule

Monday, 18 June

16.00 - 18.00: Advisory Committee Meeting (for AC members only)

Tuesday, 19 June

14.00 - 15.00: Industrial Committee Meeting (for Corporate Members only)

16.00 - 17.30: Execom Meeting (for Execom Members only)

17.30 - 20.00: Board Meeting (for Board Members only)

Wednesday, 20 June

16.30 - 17.30: Execom Meeting (for Execom Members only)

17.30 - 19.00: Annual General Meeting (open to all EOS members)

Contact

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The **OFT** workshop series is organised in cooperation with the **EOS Corporate Member FISBA Optik AG**
www.fisba.ch



Baroque Cathedral of St. Gallen, UNESCO World Cultural Heritage

Image source: www.st.gallen-bodensee.ch



General Chair:
Jani Tervo (University of Joensuu, Finland)

Programme Committee

Juan Campos (Universidad Autonoma de Barcelona, ES)
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 Maria Sagrario Millan (Universitat Politècnica de Catalunya, ES)
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 Tuomas Vallius (Nanocomp, FI)
 Santiago Vallmitjana (University of Barcelona, ES)
 Frank Wyrowski (University of Jena & LightTrans, DE)
 Maria Yzuel (Universidad Autonoma de Barcelona, ES)

EOS_events

3rd EOS Short Course on Optical Fabrication Technology

The **EOS and FISBA Optik AG** organise for the third time the **OFT Short Course (10 - 11 May 2007)**.

This short course is based on a lecture that Oliver Faehnle from FISBA Optik AG gives for master students who study Applied Optics at the Delft University of Technology (NL), and focuses on Optical Fabrication Technology and its application in industry.

Applied Optical Fabrication and Testing is covered discussing in detail state-of-the-art industrial fabrication techniques as well as ongoing applied scientific research projects. Recent advances are analyzed and future trends are identified. Topics will extend from sphere and asphere fabrication and testing to applied material science, finishing science.



Venue: FISBA Optik AG building in St. Gallen

A two days lecture will be given including some demonstrations about the fabrication and testing of optical components, e.g. lenses made of glass. Topics:

1. Optical shop optimization techniques (mass- production versus state-of-the-art single piece production)
2. Polishing research (FJP: a novel finishing method for high end optics)
3. On machine monitoring of surface roughness during polishing and grinding

Date and time

10 May: 9.00 - 17.00

11 May: 9.00 - 17.00

Location

FISBA Optik AG, St .Gallen, Switzerland

Registration

The total number of participants is limited to 40.

Early-bird registration until 31 March 2007:

Regular attendees: 300 Euro
 Students: 200 Euro

Registration until 7 May 2007:

Regular attendees: 350 Euro
 Students: 250 Euro

Contact

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EOS_events

Advance notice: 6th EOS Topical Meeting on Diffractive Optics (DO 2007)

DO 2007 will be held in Barcelona, Spain, from 21 - 23 November 2007. The call-for-papers will be published soon.

This meeting will be the sixth in the series of EOS Topical Meetings on Diffractive Optics. The previous meetings took place in Savonlinna (1997), Jena (1999), Budapest (2001), Oxford (2003) and Warsaw (2005). The main topics are design, fabrication, and applications of diffractive optics.

Sub-topics

- Modeling of DOEs by rigorous and approximate techniques
- DOE design theory and techniques
- Fabrication of DOEs
- Characterization of DOEs



Venue: University of Barcelona, Spain

- System integration
- Modeling of optical systems that include DOEs
- Programmable DOEs
- Sub-wavelength structures
- Photonic crystals
- Novel materials
- Metamaterials
- Shaping and homogenization of optical beams
- Diffractive optics for extreme wavelengths
- Measurement techniques for

near field of DOE

- Diffractive optics for life sciences and security applications

Invited speakers

Olivier Parriaux (TSI, Saint-Etienne, FR)
 Robert Brunner (Carl Zeiss Jena, DE)
 Tapani Levola (Nokia Research Center, FI)
 Fredrik Nikolajeff (Ångström Laboratory, Uppsala University, SE)

This EOS Topical Meeting will be held at the University of Barcelona. A list of appropriate hotels in Barcelona will be provided soon at

www.myeos.org/barcelona.

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EOS_events

EOS Topical Meeting on Advanced Imaging Techniques

Abstract submission deadline: 13 April 2007

This meeting will be the third in the series of EOS Topical Meetings "Advanced Imaging Techniques". Two previous ones took place in Delft (2003) and London (2005).

The main topics of the Lille meeting are (i) image creation (ii) object reconstruction and (iii) new technologies. Date and venue: 12 - 14 September 2007, Lille, France.

Sub-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

Confirmed invited speakers

Claude Boccara, ESPCI, FR
 Laurent Cognet, University of Bordeaux, FR
 Jesper Glückstad, Risø National Laboratory, DK
 Philippe Gondoin, European Space Agency, NL
 Herbert Gross, Carl Zeiss, DE
 Michael Kempe, Carl Zeiss, DE
 Pierre Kern, Observatory of Grenoble, FR
 Eric Lantz, University of Besançon, FR
 Luigi Lugiato, University of Como, IT
 Alfredo Luis, Univ. Complutense, ES
 Carl Paterson, Imperial College, GB
 Alexander Rohrbach, University of Freiburg, DE
 Michael Scalora, US Army Aviation and Missile Command, US

Ekaterina Shamonina, University of Os-nabrück, DE
 Michael Totzeck, Carl Zeiss, DE
 Nicolas Treps, University of Paris VI, FR

For more detailed information, please visit the topical meeting website at www.myeos.org/lille.

Abstract submission

Deadline for abstract submission: 13 April
 Notification to authors: 1 May
 Mailing of final programme: 21 May 2007
 Deadline for early-bird registration: 30 June 2007
 Abstracts shall be submitted online at www.myeos.org/lille.
 The online submission will be opened at the beginning of April 2007.

Contact

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EOS_co-sponsored events

Upcoming co-sponsored events

All EOS members are entitled to reduced registration fees for the following EOS co-sponsored events.

PHASE 2007 and IPSSO 2007 [[more](#)]
 28 - 30 March 2007, Metz, France

Optical Interference Coatings (OIC 2007) [[more](#)]
 3 - 8 June 2007, Tucson, Arizona, USA

Adaptive Optics for Industry and Medicine [[more](#)]
 12 - 15 Jun. 2007, Galway, Ireland

European Conferences on Biomedical Optics 2007 (ECBO) [[more](#)]
 17-21 June 2007, Munich, Germany

SPIE Europe Optical Metrology 2007 [[more](#)]
 18 - 21 June 2007, Munich, Germany

8th International Conference on Correlation Optics [[more](#)]
 11 - 14 September 2007, Chernivtsi, Ukraine

RIAO / OPTILAS 2007 [[more](#)]
 21 - 26 October 2007, Campinas-SP, Brazil



Visit www.myeos.org/events.php for details about upcoming EOS events and co-sponsored events.

SPIE Europe Remote Sensing 2007 [[more](#)]
 17 - 21 September 2007, Florence, Italy

SPIE Europe Microtechnologies for the New Millennium [[more](#)]
 2-4 May 2007, Gran Canaria, Spain

Laser Assisted Net Shape Engineering (LANE 2007) [[more](#)]
 25 - 28 September 2007, Erlangen, Germany

EOS_co-sponsored events

EOS Co-sponsorship

EOS co-sponsorship application available at www.myeos.org

Are you organising a scientific event related to optics and photonics and are you looking for promotional support?

The EOS offers promotional support to the organisers of optics/photonics-related events in turn for presenting the EOS as a co-sponsor and for promoting the EOS e-journal [JEOS:RP](#) among the attendees of the event.

All attendees of EOS co-sponsored events are offered a 20% discount on the JEOS:RP publication rates. The only condition is that the contribution must be submitted no later than six weeks after the end of the event.

More information

You will find more information in the events section at www.myeos.org/events.php

EOS co-sponsorship application form

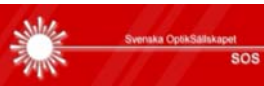
Click here to download the co-sponsorship application as pdf-file (393 kb):
<http://www.myeos.org/files/ApplicationforEOSCo-Sponsorship.pdf>

The MS-Word file (116 kb) is available at:
<http://www.myeos.org/files/ApplicationforEOSCo-Sponsorship.DOC>



Hungarian Optical Society
(HOS)

Institute of Physics



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



POLSKIE TOWARZYSTWO FIZYCZNE
POLISH PHYSICAL SOCIETY



ROMANIAN
OPTOELECTRONICS
SOCIETY (ROS)

SOCIEDAD
ESPAGNOLA DE
OPTICA (SEDO)

JEOS:RP publications

New publications in JEOS:RP

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

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

Axial spectral scans of polarization dependent third harmonic generation in a multi-mode photonic crystal fiber
D. Lorenc, I. Bugar, F. Uherek, M. Szpulak, W. Urbanczyk, A. M. Zheltikov [07001]

Non-Bragg band gaps in 1D metamaterial aperiodic multilayers
J. A. Monsoriu, R. Depine, E. Silvestre [07002]

Concealment by uniform motion
T. G. Mackay, A. Lakhtakia [07003]

Slow light by means of coherent population oscillations: laser linewidth effects
G. Piredda, R. W. Boyd [07004]

Microlenses with annular amplitude and phase masks
V. Paeder, T. Scharf, P. Ruffieux,



JEOS:RP at www.jeos.org

H.P. Herzig, R. Voelkel, K. Weible [07005]

A Model to optimize a microwave PBG accelerator based on generic unit cell
R. Diana, A. Giorgio, R. Marani, V. Passaro, A.G. Perri [07006]

Effects of partial coherence on frequency combs
V. Torres-Company, H. Lajunen, A. T. Friberg [07007]

Strehl ratio and optimum focus of high-numerical-aperture beams
A.J.E.M. Janssen, S. van Haver, J.J.M. Braat, P. Dirksen [07008]

Enhanced transmission through arrays of subwavelength holes in gold films coated by a finite dielectric layer
S. Xiao, N. A. Mortensen, M. Qiu [07009]

Active microcavity and coupled cavities in one-dimensional photonic crystal
D. Biallo, A. D'Orazio, V. Petruzzelli [07010]

JEOS:RP sections

Spectroscopy
Imaging, diffraction, propagation & scattering
Optical processing & computing, information theory
Infrared & terahertz radiation
Atmospheric turbulence, random media & adaptive optics
Biomedical imaging & vision
Photonics & integrated optics
Lasers
Quantum optics Q
Ultrafast & X-ray optics
Coherence & statistical optics
Instruments & components
Nonlinear optics & materials

Publication rates

EOS Member rate: 350 €
Non-member rate: 400 €

Author information

Click [here](#) to read the JEOS:RP author guidelines.

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spotlight_branches

Mario Armenise new SIOF President

The SIOF, the Italian Branch of the EOS, has elected a new Execom and Board for 2007 and 2008.

The Italian Optical Society elected a new Board and Executive Committee. Mario N. Armenise from the Politecnico di Bari has become the SIOF President for the term 2007 and 2008.

He will be supported in the Execom by Anna Consortini from the University of Florence (Past President), Stefano Pelli from the Consiglio Nazio-



Anna Consortini (Past President) and Mario N. Armenise (President of the SIOF)

onale delle Ricerche (Vice President), Caterina Ciminelli from the Politecnico di Bari (Secretary) and Giorgio Marega (Treasurer).

Website: <http://siof.ifac.cnr.it>

SIOF Directory

Directory of Italian optics companies and institutes

Are you looking for a cooperation partner in Italy? The SIOF has compiled a directory of the Italian optics landscape that can be downloaded [here](#) (pdf-file; 633 kb).



spotlight europe

FP7 reimbursement model and selection criteria

EOS EU Representative Peter Seitz compiled valuable information about the FP7 reimbursement model and selection criteria.

With the foundation of the photonics unit and an increase in the funding volume of 40%, photonics has been given a firm place in the 7th Framework Programme and topics, information about the reimbursement model (see table below) and the evaluation and selection criteria are crucial for proposal writers.

Photonics in Call 1

Several photonics-related topics are included in Call 1 (published on 22 December 2006), such as:

- Organic and large-area electronics and display systems (incl. OLEDs)
- The network of the future (broadband networks and ultra high speed)
- Future and emerging technologies (open call)
- Organic materials for electronics and photonics

Photonics in Call 2

Expected topics of Call 2 within the scope of objective 3.3.2.1 "Photonic components and subsystems" (publication exp. for 15 May 2007) are:

- Core photonic components and subsystems



<http://cordis.europa.eu/fp7/photronics/> informs about photonics in FP7

- Application specific components and subsystems
- Underlying technologies
- Complementary and support measures

Evaluation and selection

On the [ICT page](#) of the Cordis website, two documents are listed that will soon be available for download:

- Guidelines on Proposal Evaluation and Selection Procedures
- Handbook on evaluation and selection of proposals

The information about photonics-related topics in Call 1 and Call 2 was given at the 2006 Annual Meeting of the Photonics 21 Technology Platform.

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More information
<http://cordis.europa.eu/fp7/photronics/>

spotlight europe

Photonics Infoday in Brussels

To prepare for call 2, an Information Day on Photonics will take place in Brussels, Belgium, on April 26th 2007.

Call 2 of the ICT programme includes research in the area of photonics components and subsystems. The Call is expected to open on 15 May 2007 and to close on 9 October 2007.

At the Infoday, the photonics topics in the 2007-2008 Workprogramme will be presented, followed by the chance for prospective proposers to present their ideas and meet potential partners.

The agenda is available at www.myeos.org/files/photronics_infoday.pdf.

If you are interested in attending, please register by e-mailing your full contact details to the email address given below. If you would like to present your idea for a research proposal, please submit this to the same address before April 20th. Presentations should be maximum 3 slides in PowerPoint (or equivalent) and include your contact details.

Venue
Avenue de Beaulieu 25, room 0/01,
Brussels, Belgium

Contact
John Magan, European Commission
Information Society and Media DG
info-photronicsinfoday@ec.europa.eu
Tel.: +32 2 296 12 04

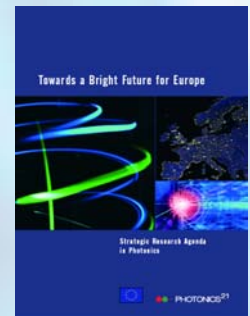
Maximum reimbursement rates of eligible costs	Research & technological development	Demonstration activities	Training activities	Dissemination activities	Consortium Management activities	Other specific activities*
Network of Excellence					100%	100%
Large collaborative projects	Large industrial companies 50% Others 75%	50%	100%	100%	100%	100%
Small collaborative projects	Large industrial companies 50% Others 75%	50%		100%	100%	
Specific research project for SMEs	Large industrial companies 50% Others 75%		100% (for collective research only)		100%	
Coordination or networking actions			100% for CA		100% (indirect costs: flat rate 7%)	100% (indirect costs: flat rate 7%)



... 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