

Community

News from the European Optical Society

DOI 10.1515/aot-2014-0034

Memorandum of understanding with the Chinese Optical Society

To strengthen relations with the Asian photonics community, the EOS has signed Memorandum of Understanding (MoU) with the Chinese Optical Society (COS). The Chinese Optical Society began in 1979 and has more than 15,000 members.

The MoU between the COS and the EOS gives advantages for members of either society, which are similar to the privileges given to their own members. It is strictly symmetric; hence, both societies and their members are treated equally.

A similar memorandum was signed between the Japan Society of Applied Physics and the EOS in 2013.

Year of the Light 2015

What is “photonics”? Hopefully, after next year, the vast majority of people on earth will know. The year 2015 will be celebrated as the International Year of Light and Light-Based Technologies (YIL 2015). The proclamation was made by the United Nations General Assembly last December. YIL 2015 commemorates the achievements of light science and its applications, and its many contributions to humankind. YIL 2015 will be administered by an International Steering Committee convened by John M. Dudley, who is also the President of the European Physical Society (EPS). In close collaboration with the EPS, the European Optical Society (EOS) will participate and manage various events all over Europe.

EOS improves its social media presence

The EOS has modernized its communication by opening Twitter and Facebook pages. Follow us on Twitter at @myeos or like us on Facebook at EuropeanOpticalSociety.

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Annual meeting of the EOS: EOSAM2014

The EOSAM2014 will be held from September 16 to 19 in Berlin Adlershof (Figure 1). The General Chairs are Paul Urbach, Delft University of Technology (NL), and Seppo Honkanen, University of Eastern Finland (FI). The Local Scientific Chair will be Rainer Schuhmann, Berliner Glas KGaA (DE). The practical organization is being coordinated by Elina Koistinen (koistinen@myeos.org) from the EOS support company (the so-called EOS Oy) in Joensuu. Updated information on the conference program, the exhibition, and housing and registration details are available from www.myeos.org/events/eosam2014.

Annual assembly

The Annual Assembly of the EOS will be held on the evening of the first day of the EOSAM2014, i.e., on Tuesday, September 16. During the Annual Assembly, the state of affairs of the Society will be reviewed, the treasurer will present the financial report of 2013 and the budget for 2014, and new fellows will be elected. The year 2013 was a year of many changes for the EOS. The previous managing director of the society, Klaus Nowitzki, stepped down, and Prof. Jyrki Saarinen of the University of Eastern Finland, Joensuu, took over. Furthermore, the office in Hannover transferred the main tasks such as membership administration, sustaining the website, running our open access journal JEOS:RP and organizing EOS events to the new office based in Joensuu. This transfer was certainly not easy, but it has been completed successfully.

The conference

The opening talk will be given by the Deputy Head of Unit Photonics of the EU, Dr. Ronan Burgess, who will speak about Photonics in Horizon2020.

Other plenary speakers are:

- Jeremy Baumberg (GB)
- Ian Neil (CH)



Figure 1 The EOSAM conference will take place in the WISTA area of Berlin Adlershof (Photo con.vent).

- Webster Cash (US)
- Vasilis Ntziachristos (DE)
- Alard Mosk (NL)
- Bert Offrein (CH)
- David Shafer (US)
- H. Philip Stahl, President SPIE (US)
- Martin Wegener (DE).

The second call for papers has been sent out. The extended deadline is June 30. Papers should be submitted through the website www.myeos.org/events/EOSAM2014.

Grand challenges of photonics

As in previous EOSAMs, there will again be a session on *Grand Challenges of Photonics*, this time with the following four talks:

- Tobias Kippenberg (EPFL, CH): “The mechanical properties of light”
- Ferenc Krausz (MPQ, LMU, DE): “Attosecond photonics”
- Aristide Dogariu (CREOL, UCF, USA): “Electromagnetic forces in complex fields”
- Markus Weber (Carl Zeiss, DE): “Future trends and upcoming technologies”.

Topical meetings

There will be 11 Topical Meetings (TOMs) with an impressive list of invited speakers:

1. *Guided Wave Optics*. Chair: Seppo Honkanen (Joensuu, FI), Co-chair: Franko Küppers (Darmstadt, DE).

- Invited speakers: Nasser Peyghambarian (University of Arizona, US), Stefan Wabnitz (Universita di Brescia, IT), Goëry Genty (Tampere University of Technology (FI), Jean-Emmanuel Broquin (IMEP-LAHC, Grenoble, FR), Maria-Pilar Bernal (Femto-ST, Besancon, FR), Emiliano Descrovi, (Polytechnico di Torino, IT).
2. *Silicon Photonics* (PICs, optical computing, monolithic and hybrid optical sources and detectors, assembly and packaging). Chair: Ralf Bergman, (BIAS Bremen, DE), Co-chair: Graham Reed, (University Southampton, UK). Invited speakers: Dries van Thourhout (University of Ghent, BE), Lars Zimmermann (IHP Leibniz – Institut für Innovative Mikroelektronik, Frankfurt Oder, DE), Lionel Kimerling (MIT, US), Ivo Rendina (Institute of Microelektronik and Microsystems, Napoli, IT), Martijn Heck, (Aarhus University, DK), Pol van Dorpe (IMEC, Leuven, BE).
3. *Optical System Design and Tolerancing* (including both imaging and non-imaging optics). Chair: Wilhelm Ulrich (Carl Zeiss AG, DE), Co-chair: Kimio Tatsuno (KRI, JP). Invited speakers: Alexander Epple (Carl Zeiss SMT AG, DE), Alois Herkommer (University of Stuttgart, DE), Andy Harvey, (University of Glasgow, UK), Anurag Gupta (Google, US), Chir-Weei Chang (ITRI, TW), David Aikens (Savvy Optics, US), Dewen Cheng and Yongtian Wang (Beijing Institute of Technology, CN), Hiroki Ono (Nikon, JP), Jan ten Thije Boonkkamp, (Technical University of Eindhoven, NL), Jannick Rolland (University of Rochester, US), John Rogers (Synopsys, US), Keishi Kubo (Panasonic Corp., JP), Kevin Thompson (Synopsys, US), Koichi Takahashi (Olympus Corp., JP), Masaki Isshiki (Isshiki Optics Inc., JP), Massimiliano Pindo (TPI, Dresden, DE), Oliver Dross (Philips Lighting, NL), Stephan Berlitz (Audi AG, DE), Takashi Inoue (Hamamatsu, JP), Thomas Nobis, Carl Zeiss AG, DE), Toyohiko Yatagai (Utsunomiya University of Tokyo, JP), Willem Vos (University of Twente, NL), Wolfgang Vollrath (KLA-Tencor, DE), Zenta Ushiyama (Tyco Corp., JP).
4. *Biophotonics and Medical Optics*. Chairs: Johannes de Boer (Free University of Amsterdam, NL), Martin Leahy (National University of Ireland, Galway, IE). Invited speakers (not all confirmed and to be completed): Francesco Pavone (University of Florence, IT), Juergen Popp (Institute of Photonic Technology, DE), Michael Pircher (Medical University Vienna, AT).
5. *Meta-materials, Photonic Crystals, and Plasmonics: Fundamentals and Applications*. Chair: Philippe Lalanne (Institut d’Optique, FR), Co-chairs: Xiacong Yuan (Shenzhen University, CN), Paul Urbach (Delft University of Technology, NL). Invited speakers:

- Jaime Gomez Rivas (AMOLF, NL), Javier Garcia de Abajo (ICFO, ES), Jesper Mørk (Technical University of Denmark, DK), Lei Zhou (Fudan University, CN), Mario Agio (National Institute of Optics CNR-INO, IT), Martin van Exter (Leiden University, NL), Pavel Belov (ITMO, St. Petersburg, RU), Susumu Noda and Takashi Asano (Kyoto University, JP), Uwe Zeitner (Fraunhofer Institute for Applied Optics and Precision Engineering, DE).
6. *Optics for Cinematography and Video* (optics for digital cinematography, illumination design, screen technology for cinema and video, etc.). Chair: Matthias Pesch (ARRI, Muenchen, DE), Co-chair Peter C. Slansky (HFF-University of Television and Film Munich, DE). Invited speakers: Christian Iseli (Zurich University of the Arts ZHdK, CH), Jon Fauer (Film and Digital Times Inc., US) N.N. (ARRI, DE), Peter C. Slansky (HFF – University of Television and Film, Munich, DE).
 7. *Energy Harvesting and Organic Photonics* (light-manipulating organic materials and devices, organic photovoltaic, organic semiconductors for sensing, OLEDs). Chair: Guglielmo Lanzani (Istituto Italiano di Tecnologia, IT), Co-chairs: David Lidzey (University of Sheffield, GB), Davide Comoretto (University of Genova, IT). Invited speakers: Frederik Krebs (Technical University of Denmark, OPV, DK), Gianluca Farinola (University of Bari, IT), Graham Turnbull (University of St. Andrews, GB), Ned Thomas (Rice University, US), Stephane Kena-Cohen (Imperial College, GB).
 8. *Adaptive and Active Optics*. Chair: Jörg Petschulat (Carl Zeiss AG, DE), Co-chair: Chris Dainty (University College London, GB). Invited speakers: Alexander Rohrbach (University of Freiburg, DE), Alfredo Dubra (Medical College of Wisconsin, US), Changhui Yang (California Institute of Technology, US), Martin Booth (University of Oxford, GB), Michel Verhaegen (Delft Center for Systems and Control, NL).
 9. *Frontiers in Optical Metrology*. Chair: Bernd Bodermann (Physikalisch-Technische Bundesanstalt PTB, DE), Co-chair: Omar El Gawhary (TU Delft, NL). Invited speakers: Dr. Jan Hendrik Peters (Carl Zeiss SMS GmbH, DE), John Rodenburg (University of Sheffield, GB), Mathias Richter (PTB, DE), Gunther Notni (Fraunhofer IOF, DE), Vittorio Giovannetti (Scuola Normale Superiore of Pisa, IT).
 10. *Diffraction Optics*. Chairs: Pierre Chavel (Institut d'Optique, FR), Jari Turunen (University of Eastern Finland, FI). Invited speakers (not all confirmed and to be completed): Webster Cash (University of Colorado, US), Andrew Forbes (Council for Scientific and Industrial Research, ZA), María Gladis Mínguez Vega (Universitat Jaume I de Castelló, ES), Juan Liu, Beijing Institute of Technology (CN), Kenneth J. Weible (SUSS MicroOptics, CH), Leonid L. Doskolovich (Russian Academy of Sciences, RU), Piotr Wróbel (University of Warsaw, PL), Zeev Zalevsky (Bar-Ilan University, IL).
 11. *Special TOM for Partners in an EU Project to Disseminate Their Results*. Chairs: Paul Urbach (Delft University of technology, NL), Seppo Honkanen (University of Eastern Finland, FI). TOM11 is a special session because it offers an excellent opportunity to partners in an EU project on photonics to disseminate their project to a wide audience by organizing a 1-h session with, say, three or four talks. A project can apply for a dissemination session in TOM11 by submitting through the website mentioned above.

Day of lectures before EOSAM2014

Prof. Patricia Segonds (CNRS, FR) organizes on behalf of the EOS a day of lectures related to the TOMs aimed at newcomers to the field. This day is free for all participants of EOSAM2014 and will be attractive in particular for students. The lectures are held at the grounds of PTB (Physikalisch Technische Bundesanstalt) in Adlershof, Berlin. Those who would like to attend (some of) the lectures have to register for this additional event on the website www.myeos.org/events/eosam2014.

The program of the day is as follows:

Monday morning

8:30–10:00: Tutorial on guided wave optics (TOM1) and Silicon photonics (TOM2) by Jean-Emmanuel Broquin, IMEP-LAHC, Grenoble, France

10:00–10:30 Coffee break

10:30–11:30: Tutorial on biophotonics and medical applications (TOM4) by Michael Pircher, Medical University Vienna, Austria

11:30–12:30: Tutorial on photonic crystals and plasmonics (TOM5) by Rachel Grange, Friedrich-Schiller-University Jena, Germany

12:30–13:30 Lunch break

Afternoon

13:30–15:00: Tutorial on optics for cinematography (TOM6) by Peter C. Slansky, University of Television and Film, Munich, Germany

15:00–16:00: Tutorial on organic optoelectronics and photonics (TOM7) by Wolfgang Kowalski, Heidelberg, Germany

16:00–16:30 Coffee break

16:30–18:30: Tutorial on active and adaptative optics (TOM8) by Michel Verhaegen, Delft University of Technology, The Netherlands

In parallel (afternoon)

Tutorial on Optics Fabrication (TOM3) by Oliver Föhnle, Fisba, Switzerland and Tutorial on utilizing Aspheres in Optical Design (TOM3) by Ulrike Fuchs, Asphericon, Germany

Last but not least, there will be several social and networking events during the EOSAM2014, and a special cinematic event is planned in a studio in Berlin on Friday evening. So there are many reasons to go to Berlin for the week of September 16.

Paul Urbach
President of the EOS.