

EOS NEWSLETTER

THE OFFICIAL PUBLICATION OF THE EUROPEAN OPTICAL SOCIETY

EOS seeks board nominations

The EOS is looking for candidates to fill the five vacant seats on its board.

2008 is an election year and the EOS invites all of its members to nominate eligible candidates to fill the five vacant seats on the EOS board. Why not take advantage of this opportunity?

Every EOS member can suggest up to three candidates for election to the board. Please note that three EOS members must support the nomination of each candidate and that nominations may be submitted by letter or by e-mail.

When nominating by post, the three EOS members that are supporting the candidate must sign a letter, but not the nominee. A letter from the candidate accepting the nomination should

be included at this time, although it can be sent separately if required.

In the case of nomination by e-mail, each of the three EOS members supporting the candidate must send in a separate e-mail including the name of the nominated person. This is important as each e-mail is accepted instead of a signature. In addition, the candidate must also send an e-mail accepting the nomination. Please note that all four people involved (the candidate and the three supporters) must be either full or associate members of the EOS. The closing date for nominations is 31 March 2008.

EOS annual meeting alongside OPTO 2008

Join us in Paris for the 2008 EOS annual meeting.

The 2008 EOS annual meeting will again be held alongside the OPTO exhibition in Paris, France. The EOS meeting will be held between 29 September and 2 October 2008.

This arrangement was a great success in 2006 when it was tried for the first time. OPTO 2008 will take place in Paris-Nord Villepinte, Parc d'Expositions et Centre de Conventions, a modern location that is less than two miles from Charles de Gaulle airport.

There will be seven topical meetings and a workshop: TOM 1: Biophotonics – chairs: Gert v Bally, Ivo Rendina and Paul French; TOM 2: Terahertz science and technology – chair: Paul Planken; TOM 3: Nanophotonics, photonic crystals and metamaterials – chairs: Concita Sibilina and Richard De La Rue; TOM 4: Micro- and nanoscale photonic systems – chairs: Juergen Jahns, Hugo Thienpont and Erez Hasman; TOM 5: Organic photonics – chair: Guglielmo Lanzani; TOM 6: Nonlinear optics: from sources to



The Paris-Nord Villepinte exhibition centre in Paris.

guided waves – chairs: Cornelia Denz, Gilles Pauliat and Robert Kuszelewicz; TOM 7: Dynamical optics – chairs: Gordon Love, Michael Totzeck and Chris Dainty; Workshop: Education: the 4th level education in photonics. Masters and PhD training issues – chair: Chris Dainty.

More details will be available soon at: www.myeos.org/events.

Brussels is the venue for Photonics21's annual meeting.

Photonics21 annual meeting

Representing 900 members from industry and research, the Photonics21 annual meeting has become a major event in the European photonics community's calendar. This year, the event will take place at the Radisson SAS Royal Hotel in Brussels, Belgium on 5–6 December. Starting with an evening reception in the conference hotel on 5 December, all participants will have the

opportunity to discuss and network with other members of the platform in a relaxed atmosphere. On 6 December there will be presentations covering topics such as: Photonics21 research strategy recommendations and an analysis of the photonic proposals submitted and supported in the first calls of FP7. Strategic planning for 2008 will be also discussed. For more information visit www.photonics21.org.

OPERA2015 presents results

OPERA2015 invites you to its meeting at Photonics Europe in April 2008.

OPERA2015 will present the results that it has achieved over the last few years on 9 April 2008 at Photonics Europe. The OPERA2015 summit meeting will be divided into two parts.

The first part will include a general introduction as well as a presentation of the aims, results and future goals of OPERA2015. This will be followed by an analysis of the current state of the European optics and photonics market, and finally, a demonstration of the OPERA2015 website, the most extensive forum for optics and photonics in Europe.

The second part of the meeting will include a discussion regarding the future of research and development in optics and photonics across Europe. This will be led by renowned experts and scientists who will present strategic opportunities and sustainable business models that take competition with Asian and North American countries into account.

OPERA2015 plays an important role in European research into optics and photonics. Why not attend the event and convince yourself? For more information see www.opera2015.org. Photonics Europe will be held in Strasbourg, France, between 7 and 11 April 2008.



Alexander von Witzleben, Photonics21 president (and managing director of Jenoptik) and Viviane Reding, the European commissioner for information society and media, attending Photonics Europe in 2006.

OPERA2015 website promotes interaction

OPERA2015 website increases the number of collaborating partners.

The OPERA2015 website is the ideal platform for European researchers in optics and photonics to interact.

Thanks to a joint strategy involving both research and industry, an increasing number of organizations, companies and projects are joining OPERA2015 and benefiting from the platform's advantages. Some collaborating partners are outlined below:

- PHOLOGIC (Nanophotonic logic gates) explores the mass-manufacturing compatibility of nonlinear photonic materials and their associated CMOS fabrication processes using a highly scalable photonic logic gate structure as a functional validation device.
- SABIO (Ultrahigh sensitivity slot-waveguide biosensor on a highly integrated chip for simultaneous diagnosis of multiple diseases) involves the emerging fields of micro- and nano-technology, photonics, fluidics and bio-chemistry, and is aiming to develop intelligent diagnosis equipment for healthcare.
- MONA (Merging optics and nanotechnologies) bridges the gap between photonics and nanotechnology and seeks to increase the impact and efficiency of investment on European research. The aim is to produce a European roadmap for photonics and nanotechnologies.
- PhOREMOST (Nanophotonics to realise

molecular scale technologies) aims to enhance European research into nanophotonics by involving both students and scientific researchers. The goal is to understand the underpinning science and engineering for molecular-based optical components.

- HIBISCUS (Hybrid integrated bio-sensor created by ultrafast laser sources) proposes to use high-intensity femtosecond laser pulses to provide an integrated platform for the fabrication of biochips with photonic functionalities.
- POF-ALL (Paving the optical future with affordable lightning-fast links) deals with the development of a low-cost broadband solution based on plastic optical fibre.
- NANO-UB-SOURCES (Ultrabroad bandwidth light sources based on nano-structuring devices) is aiming to develop a new generation of broad bandwidth, compact, cost-effective and user-friendly lasers based on photonic device technology. Such sources would enable significant improvement in early cancer diagnosis and monitoring of retinal diseases.

For further information on any of the projects please contact irenesanchez@idetra.com or wilkens@vdi.de. To keep up to date with the OPERA2015 project or to add your research group or company details to its database, please visit <http://www.opera2015.org>.

Kista: Sweden's Silicon Valley

The KPRC is Sweden's largest photonics research centre.

Kista Photonics Research Center (KPRC), formed in 2002, is known as a joint research unit. KPRC is an umbrella organization that facilitates the collaboration between the Royal Institute of Technology (KTH) and the private research institute Acreo AB in the field of photonics.

Kista is a northern suburb of Stockholm and is sometimes known as the Swedish Silicon Valley. Close to 20 000 people work in this area for ICT-related companies, most of them with R&D activities. It is easy to see why the founders of KPRC chose to base in Kista, but in addition there are around 40 KTH optics researchers in Stockholm, and a large number of companies benefit from the centre.

With about 120 researchers, PhD students and supporting personnel, KPRC is the largest research centre in photonics in Sweden and a major player in Europe in the field of optical communications. The majority of the research at KPRC is related to semiconductor- and glass-based materials and components. In addition, there is an element of more basic research into topics such as quantum optics and quantum cryptography. When researchers from Ericsson joined KPRC in 2002, this added a competence in high-capacity transmission, optical networking and service-related technologies.

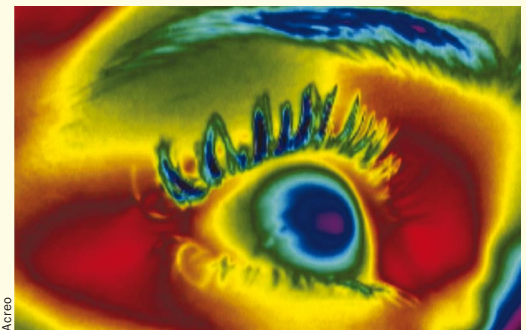
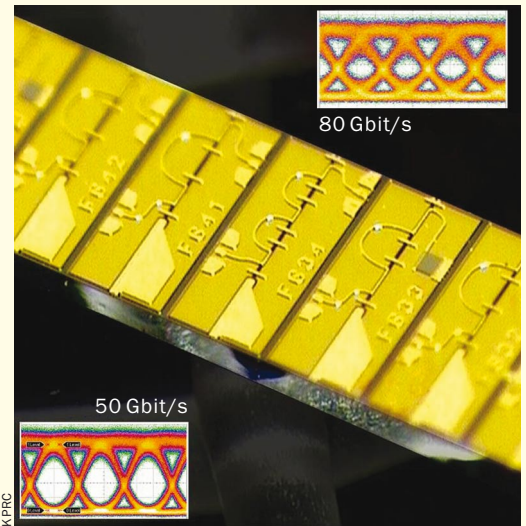
In 2004, KPRC successfully organized the 30th European Conference on Optical Communication in Stockholm with the support of Ericsson and Telia. From 2005, KPRC has been heavily involved in the highly successful Photonics21 technology platform.

KPRC is a member of the executive board of Photonics21 and leads one of its seven working groups, dealing with photonic components and sub-systems. KPRC actively works for better coordination of research resources both internally and at the European level to increase the competitiveness of the European photonics industry.

About Acreo (www.acreo.se)

Headquartered in Kista, Acreo offers contract R&D and production services in areas ranging from microelectronics and optics to communication technology. Its activities range from basic R&D through to the final stage of production. Bridging the gap between academic research and commercial products, Acreo provides innovative technology solutions that contribute to growth and profitability.

Acreo specializes in semiconductor technology, organic electronics, fibre optics, optical networking and nanotechnology. One example of research that was commercialized successfully is work regarding quantum-well infrared photo-detectors (QWIPs). Academic research into QWIPs began 10–15 years ago and today Acreo



KPRC is a major player in optical communications (top). Acreo has commercialized QWIP research (bottom).

has spun-out these activities into a company called IRnova AB.

Acreo also provides solutions for future broadband technology including all aspects from networking to transmission technology and services. Specifically, Acreo develops the open network concept that makes it possible for any service provider to reach, or be reached, by any end user. Acreo's National Broadband Testbed provides an open forum for system vendors, operators, service providers and academia. New products, services and solutions, which include real end users or test pilots, can be evaluated in the test bed.

About KTH (www.kth.se)

KTH is Sweden's leading technical university and provides undergraduate and postgraduate courses in architecture, engineering and technology, and a broad range of masters programmes in English. KTH is a technical university with a strong international character. A steadily increasing number of overseas students and researchers are contributing to its success.

Pierre-Yves Fonyallaz is director of Kista Photonics Research Center.

Calendar

DATE	EVENT	LOCATION
31 March – 2 April 2008	EOS Topical Meeting on Photonic Devices and their Application in Health and Medicine	Utrecht, the Netherlands
7–11 April	Photonics Europe 2008	Strasbourg, France
16–18 April	3rd Pacific International Conference on Applications of Lasers and Optics – PICALO 2008	Beijing, China
12–15 May	2nd International Topical Meeting on Optical Sensing and Artificial Vision – OSAV 2008	St Petersburg, Russia
25–28 June	1st Mediterranean Photonics Conference	Ischia, Italy
2–4 July	Advanced Imaging Techniques 2008	Jena, Germany
29 September – 2 October	EOS Annual Meeting 2008	Paris, France

For more information on any of these events, please visit www.myeos.org.

Are you a member of the EOS?

Look at the benefits

Individual members are eligible for:

- reduced fees for JEOS:RP at www.jeos.org;
- a regular EOS Newsletter e-mail;
- reduced conference fees;
- reduced prices for EOS journals;
- free subscription to *Optics & Laser Europe*;
- and, for those living outside Germany, a 50% discount on a subscription to the German-language journal *Photonik*, published by AT-Fachverlag.

Additional benefits for corporate members:

- a company profile in the EOS directory;
- a presence on the EOS website;
- free advertisements for jobs in the EOS market;
- reduced conference fees for all employees.



EOS 2008 membership fees

Individual members (who do not belong to a branch or affiliated society of the EOS):

€40

Students (who do not belong to a branch or affiliated society of the EOS):

€10

Corporate members (regardless of the number of employees of the company or members of the institute):

€200

Individual members of the branches SFO (France), DgaO (Germany), HOS (Hungary), SIOF (Italy), LAS (Russia), SOS (Sweden), SSOM (Switzerland) and the Optical Group IOP (UK) are automatically full individual members of the EOS. Individual members of the affiliated societies Promoptica and CBO-BCO (Belgium), CSSF (Czech and Slovak Republic), DOPS (Denmark), FOS (Finland), the Optics Division of the Norwegian Physical Society (Norway), the Optics Division of the Polish Physical Society (Poland), ROS (Romania) and SEDO (Spain) are automatically associate members of the EOS.

Membership information

To find out more about joining the EOS, contact Klaus Nowitzki, executive director, Hollerithallee 8, D-30419 Hanover, Germany (tel +49 (0)511 2788 115; e-mail info@myeos.org; web www.myeos.org).

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