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Community

News from The European Optical Society

New representative of Affiliated Societies elected onto EOS Board The EOS Affiliated Societies elected Professor Irina Livshits from ROS, Rozhdestvensky Optical Society, as their new representative in the EOS Board of Directors for the next two years. In her new office, the Research Director of the Engineering Center OPTICA at the National Research University ITMO, Russia, she acts as intermediary between the representatives of the Affiliated Societies and the EOS Board and represents the interests of the societies within the EOS and vice versa. Since 2009, Irina Livshits has been well known to the EOS as a member of the Advisory Committee.

Irina Livshits is among others also the head of the Laboratory of Computer Aided Design of Opto-information and Energy saving Systems and acts as the Director of the Russian-Korean Optical Design Center ITMO-KPU. Her research interests include imaging and non-imaging optical systems, expert systems and genetic algorithms for optical design, optical design software and optoelectronic computing.

JEOS:RP section editor Fredrik Laurell elected Fellow of the Optical Society of America With the citation "For pioneering contributions to the development of periodically poled materials and important contributions to laser physics and nonlinear optics" the OSA has elected Prof. Laurell as a Fellow. The chairman of the Swedish Optical Society, SOS, and professor for laser physics at KTH, Sweden, is well-known within the EOS too. Since December 2011 he has acted as a section editor for the Journal of the European Optical Society: Rapid Publications (JEOS:RP, **www.jeos.org**), before that he held the position as chairman of the EOS Advisory Committee. Fredrik Laurell's research spans studies of optical materials, nonlinear optics and laser physics.

EOS Student Clubs: Call for Applications, open until 16 April 2012 To encourage and support students in continuing their study in optics and photonics and to start a successful career, the EOS has launched a Student Programme in 2011 and now calls again for applications for the foundation of further EOS Student Clubs.

Up to now, seven Student Clubs have been established to focus on the special concerns and needs of students in optics and photonics and to provide a platform for networking. To facilitate contacts between students and industry the EOS arranges an annual EOS Student Assembly. This year's assembly will be held alongside EOSAM 2012 (EOS Annual Meeting) in Aberdeen, Scotland.

The EOS Student Programme is open to all undergraduate, graduate and PhD students who are members of the EOS. The Programme is organized in regional and topical Student Clubs and supported by the National Optical Societies. Applications for the foundation of an EOS Student Club will be accepted until 16 April 2011. The EOS Student Programme is coordinated by Roberta Ramponi, Politecnico di Milano, Italy. For more information see **www.myeos.org**.

EOS Events April – June 2012

2nd EOS Conference on Laser Ablation and Nanoparticle Generation in Liquids (ANGEL 2012)
Taormina (Sicily), Italy
22–24 May 2012
www.myeos.org/events/angel2012

ANGEL 2012 focuses on aspects of the fundamentals of laser ablation in liquids as well as novel applications. Conference topics are:

- Modeling and fundamentals of laser ablation and particle fragmentation in liquids.
- Nanoalloys, core-shell particle.
- Nanohybrids, conjugation with organic molecules and biomolecules.
- Laser-generated nanocomposites.
- Laser nanoparticle heating/phototherapy.
- Pulsed laser optoporation with nanoparticles.
- Nanoparticle productivity/scaleup.
- Semiconductor and dielectric nanoparticles.

3rd EOS Topical Meeting on Terahertz Science & Technology (TST 2012)
Kaiserstejnsky Palace, Prague, Czech Republic
17–20 June 2012
www.myeos.org/events/tst2012

TST 2012 focuses on the latest results in the generation, detection and use of THz radiation in science and technology. Meeting topics are:

- Emission of THz radiation (QCLs, HEMTs, FELs, synchrotrons, nonlinear optics, etc.).
- Detection of THz radiation (quantum dots, single-photon detectors, time-gated, HEMTs, etc.).
- THz integrated optics, waveguiding, plasmonics, metamaterials, photonic crystals.
- Interaction of THz radiation with matter (dielectrics, semiconductors, nanostructured materials, liquid-state dynamics, chemistry, biology, ultrafast spectroscopy, etc.).
- Nonlinear phenomena induced by THz radiation.
- THz far-field and near-field imaging, THz microscopy and microspectroscopy.
- Remote sensing of gases and chemical/biological agents.
- THz applications (security, telecom, remote detection, etc.).

EOSAM 2012 moves to Aberdeen
Aberdeen Exhibition and Conference Centre, Scotland, UK
25–28 September 2012
Abstract deadline: 7 May 2012
www.myeos.org/events/eosam2012

Launched in 2006, and since then hosted every even year by the OPTO exhibit in Paris, the EOS Annual Meeting (EOSAM) has established itself as a major European event with about 700 attendees. In 2012, EOSAM moves to Aberdeen in Scotland, to reach out into the wider European community and broaden the appeal to those not directly connected with the EOS.

Located on the North Sea coast, Aberdeen is the centre for Europe's oil and gas industry, and is now the focus of Scotland's blossoming renewable-energy industry.

As a novelty in 2012, EOS organizes its own exhibition with a particular emphasis on offshore applications, the core industrial activity of Aberdeen. It will be held alongside the Annual Meeting to bridge the gap between science and industry and to enable the attendees to interact with a new client set.

EOSAM 2012 will be composed of seven Topical Meetings (TOMs), a Grand Challenges of Photonics session and a Workshop on Continuing Education focusing on several short courses for industry.

TOM 1 – Biophotonics This Topical Meeting aims at covering several aspects from the fundamental studies at the cellular level to clinical applications of various optical technologies. Topics range from OCT to optogenetics, photoporation, optofluidics, microfluidic biosensors, biomarkers, etc.

TOM 2 – Silicon Photonics Topics include, but are not limited to, the design, simulation, modeling and fabrication of optical interconnects. Also (CMOS-compatible) optical sources and detectors and the optimization of light emission and absorption for data processing using materials such as SiGe or III/Vs, etc. will be discussed. Advanced monolithic or hybrid processing techniques for the fabrication of photonic structures on Si such as 3D laser lithography, nanoimprint techniques or self-assembly will be considered.

TOM 3 – Nanophotonics and Metamaterials This Topical Meeting will cover all experimental and theoretical aspects of light interaction with nanoscale objects and nanostructured materials, new optical properties of nanostructured matter and their applications. Topics are, among others, photonic crystals on wires, optical microcavities, quantum dots, plasmonic guides and crystals, etc.

TOM 4 – Micro-Optics This Topical Meeting covers a wide range of topics within the field of micro-optics, from fundamental theory and research to applications and systems. Potential topics include, but are not limited to, theory, design and modeling, materials, measurements, applications as well as packaging and integration.

TOM 5 – Organic Photonics and Electronics This Topical Meeting aims to provide a forum for high-level presentations that focus on the fundamental properties or use of organic semiconducting or dielectric materials in electronics or photonics. Contributions that address fundamental materials properties through optical spectroscopy or theoretical investigations are particularly welcome.

TOM 6 – Nonlinear Photonics Recent advances in nano- and microscale fabrication of photonic structures and materials have created a wave of research on nonlinear and quantum effects. More traditional areas of nonlinear optics, such as fiber optics, nonlinear optics of gases and crystals, and sources of coherent radiation not only underpin these advances, but make remarkable progress in their own right. Metamaterials and plasmonic-based nanostructures compete with the semiconductor waveguides and microcavities to provide the best confinement of photons and for boosting strength of the

light-matter interaction. Fundamental nonlinear physics in optical fibers is enjoying its renaissance through the advent of microstructured fibers. Contributions in all these and many other subareas of nonlinear photonics are welcome.

TOM 7 – Optical Systems for the Energy and Production Industries This Topical Meeting will address fundamental aspects of optical systems engineering and their application in the energy and production industries. Proven technologies will be discussed but also new ideas, new applications and those that extend the application of optics to its limits. TOM 7 welcomes papers that apply optics in hazardous or difficult industrial and field environments. In the offshore oil and gas sectors, optical processing or nondestructive evaluation is beginning to gain prominence as its advantages for nondestructive or nonintrusive evaluation become better known.

Grand Challenges of Photonics Session World-class speakers will discuss technologies that are revolutionary, uncommon and not realizable to date, but can pave the way for an even brighter future in optics and photonics.

Workshop on Continuing Education: Short Courses for Industry This one-day workshop will gather together training providers, employers and potential trainees with various experience of the process of continuing education. Ideas will be shared to boost initiatives.