



Karlsruhe Days of Optics & Photonics

November 24 - 25, 2015

Karlsruhe Days of Optics & Photonics Fortbildungszentrum für Technik und Umwelt (FTU)/

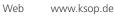
Center for Advanced Technological and Environmental Training
Campus North of the Karlsruhe Institute of Technology (KIT)
Hermann-von-Helmholtz-Platz 1
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Organization

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Register online until September 30th, 2015

http://ksop.idschools.kit.edu/KDOP_2015.php



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With great pleasure we invite you to the

5th Karlsruhe Days of Optics & Photonics

on November 24 and 25, 2015

at the Center for Advanced Technological and Environmental Training (FTU) at Campus North of the Karlsruhe Institute of Technology (KIT), Germany

For the fifth time, KSOP organizes the two-day symposium Karlsruhe Days of Optics & Photonics (KDOP). Within the scope of the International Year of Light, we are especially proud of presenting both interesting speeches on brand new research results in the broad field of Optics and Photonics as well as creating a platform to establish and deepen your international network with representatives of academia and industry.

Our speakers highlight the five KSOP Research Areas while doctoral candidates showcase their research projects in a poster session and share their view on the future of O&P with you.

Next year, the Karlsruhe School of Optics & Photonics celebrates its tenth anniversary. Even if the Excellence Graduate School of the Karlsruhe Institute of Technology is rather young, we consider the combination of basic and applied research in an international environment as well as the excellence in education the key success factors of KSOP.

We invite you to explore the fascinating world of Optics & Photonics with us during these two days!



M. Lunner

Prof. Dr. Uli Lemmer, Coordinator of the Karlsruhe School of Optics & Photonics (KSOP)

Tuesday, November 24

9.00 a.m.	Welcome and introduction Prof. Dr. Uli Lemmer - Light Technology Institute / Institute of Microstructure Technology, Karlsruhe Institute of Technology (KIT)
	Research Area I: Photonic Materials & Devices
9.15 a.m.	Time-modulation, gain and nonlinearity: new venues for metamaterials and plasmonics Prof. Dr. Andrea Alù - Electrical & Computer Engineering department, University of Texas at Austin
10.15 a.m.	Tailoring the optical response from photonic nanostructures Prof. Dr. Carsten Rockstuhl - Institute of Theoretical Solid State Physics, KIT
11.15 a.m.	Coffee break
	Research Area II: Advanced Spectroscopy
11.30 a.m.	Ultrafast dynamics of molecular, biological and nano-systems studied from the IR to the X-ray range Prof. Dr. Majed Chergui - Laboratory of Ultrafast Spectroscopy, Ecole Polytechnique Fédérale de Lausanne
12.30 p.m.	Lunch break
1.45 p.m.	Optics and spectroscopy for remote-sensing of the Earth's atmosphere Prof. Dr. Johannes Orphal - Institute for Meteorology and Climate Research - Atmospheric Trace Gases and Remote Sensing, KIT
2.45 p.m.	Poster session (Research Areas I-III) & coffee break
	Research Area III: Biomedical Photonics
4.15 p.m.	Using light to dissect and direct cellular organization and dynamics Prof. Dr. Lukas Kapitein - Cell Biology, Faculty of Science, Universiteit Utrecht
5.15 p.m.	Fourier Domain Mode Locking (FDML): A new laser for Megahertz optical coherence tomography (OCT) and molecular stimulated Raman imaging Prof. Dr. Robert Huber - Institute of Biomedical Optics, Universität zu Lübeck
6.15 p.m.	Buffet & Award International Year of Light Video Contest

Wednesday, November 25

9.00 a.m.	Welcome
	Research Area IV: Optical Systems
9.15 a.m.	A photonic microscope-in-a-needle takes high-resolution optical microscopy to deep, dark places in tissues Prof. David Sampson - School of Electrical, Electronic and Computer Engineering, University of Western Australia
10.15 a.m.	LiDAR: A modern optical tool for distance and speed measurement of fluids and solids Prof. Dr. Wilhelm Stork - Institute for Information Processing Technologies, KIT
11.15 a.m.	Poster session (Research Areas IV-V) & coffee break
12.30 p.m.	Lunch break
	Research Area V: Solar Energy
1.30 p.m.	Light absorption in perovskite and silicon solar cells Prof. Dr. Kylie Catchpole - College of Engineering and Computer Science, Australian National University
2.30 p.m.	Efficiency enhancement of solar cells via spectral conversion Prof. Dr. Bryce Richards - Institute of Microstructure Technology, KIT
3.30 p.m.	KSOP PhD Alumni Certificates Bestowal & Graduation Ceremony M.Sc. Program Prof. Dr. Michael Kaschke - Chairman Carl Zeiss AG
5.30 p.m.	Farewell
6.00 p.m.	Buffet