

## Community

## Conference Notes

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## Review: International Conference on Optics-Photonics Design and Fabrication (ODF)

Weingarten, Germany, February 28–March 2, 2016

ODF'16 was the 10th event of its kind and it was celebrated with a rich academic and social conference program. It started on February 28 with a set of tutorials at the marvellous site of Schloss Rauenstein, a neo-baroque villa on the shores of Lake Constance. The topics of the workshops ranged from Optical Glass to Aspheric Optics and Precision Optics Fabrication.

The main conference started in the rooms of the university for applied sciences in Ravensburg-Weingarten. It

focused on the more regular fields of optics design and manufacturing:

- Optical Design/Simulation (Lens Design, Illumination Simulation, Nonimaging Optics, Lens Design Theory, Fabrication and Testing, Simulation Software)
- Optical Components/Devices (Diffractive Optics and Holography, Thin Films,
- Fiber Optics, Integrated Optoelectronics, Optical Waveguide, Active Optical Components, Optical MEMS, Illumination Optical Components, Polarization Optics, Photonic Crystals, Lasers and Laser Optics, Detectors)
- Optical Systems (Illumination Optics, Information Optics, Optical Data Storage, Optical Lithography, Microscopy, Displays, Computational Photography, Automotive Optics, Bio-Medical Optics, Optofluidics, Measurement and Sensing, Cameras)
- New Technologies (Nonlinear Optics, Ultrafast Optics, Metamaterials, Plasmonics, Near-field Optics, Quantum



Established in 1998 in Tokyo by the Optical Design Group (ODG) of today's Optical Society of Japan (OSJ), ODF is an international biannual conference series on optics and photonics design and fabrication.

[www.degruyter.com/aot](http://www.degruyter.com/aot)

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Optics, Nano Structures, Cloaking, other future science and technology available to optics design and fabrication)

Most remarkable among the presentations were certainly the keynotes by John Rogers (Important Milestones in Optical System Design and Future Trends), Jun Tanida (Computational Imaging with Multiaperture Optics) and Martin Wegener (Three-dimensional Nanostructures for Photonics). The latter explained how real world devices such as head-up displays benefit from nanostructures.

### Special prizes for best contributions

The prize for the best poster went to a German-Dutch team of authors: 'A ray based method for diffraction simulation' B.M. Mout<sup>1,2</sup>, M. Wick<sup>1</sup>, J. Petschulat<sup>1</sup>, F. Bociourt<sup>2</sup> and H.P. Urbach<sup>2</sup> from <sup>1</sup>Carl Zeiss AG, Oberkochen and <sup>2</sup>Delft University of Technology

The prize for the best paper was presented to J. Heber<sup>1</sup>, F. Rückerl<sup>2</sup>, D. Berndt<sup>1</sup>, J. Schmidt<sup>1</sup>, S. Below<sup>2</sup>, J.Y. Tivenez<sup>2</sup>, J. Knobbe<sup>1</sup>, S. Shorte<sup>2</sup> and M. Wagner<sup>1</sup> from <sup>1</sup>IPMS/Germany and <sup>2</sup>Institut Pasteur/France, for their paper 'Spatio-angular illumination control using diffractive micromirror arrays'.

### Social program and excursion to Oberkochen and Jena

It was a special moment for the foreign visitors as well as for the Germans when the conference participants enjoyed an organ concert at night in the huge Basilica of St. Martin in Weingarten. The original Baroque organ of 1737 is one of the most famous in Germany and comprises not only 6,666 pipes but also a special feature, the 'vox humana', where the beat frequency of two pipes sounds like a singing human voice.

Many of the conference attendees used the chance and participated in a 2 days' journey to see some of Germany's most outstanding addresses in optics. On March 3, the Carl Zeiss campus in Oberkochen was visited. The next day, the Fraunhofer IOF's research labs in Jena were on the list. At both locations the scientists enjoyed some more optics lectures. Furthermore, they had the chance to see the new Zeiss museum in Oberkochen as well as the famous Optics Museum in Jena.

[www.odf16.de](http://www.odf16.de)

## Preview: Stuttgart Laser Technology Forum SLT'16 and LASYS

Stuttgart, Germany, 31 May–2 June 2016

Experts in the field of laser-based manufacturing will meet again in Stuttgart, when the congress Stuttgart Laser Technology Forum SLT takes place in conjunction with the international trade fair for laser material processing LASYS at the Trade Fair Centre Stuttgart (Airport).

The Stuttgart Laser Technology Forum convenes on a biannual cycle, it is aimed at knowledge transfer and is recognized as an essential international user forum of the laser branch. The presentations are held in English and German, with simultaneous translation for the German talks.

As in the past the core topics of the SLT'16 will cover the complete range from micro- to macro-processing together with the required laser sources and beam delivery systems. In addition to the latest developments on the common processes (cutting, welding, drilling, structuring, etc.) the conference will particularly highlight current trends such as additive manufacturing or the system technology required to scale the productivity in micro materials processing. Correspondingly, the latest results in the fields of ultrafast lasers, beam delivery, ultrafast scanners, and beam shaping will also be presented.

This year's highlights include presentations on 'Kagome: Fibre Delivery of Ultra – Short Pulsed Laser Radiation' (Benabid XLIM Research Institute, Limoges, France) and 'The Potential of High Average Power Lasers in Nuclear Decommissioning' (Paul Hilton, TWI Ltd, Cambridge, UK).

An evening event following the first day provides excellent opportunities for exchange with a visit to the laboratory directly at IFSW.

### LASYS

As the only international trade fair, LASYS clearly focuses on system solutions in laser material processing. Since the start of the trade fair in 2008, it has successfully established itself as a user platform for the latest laser systems, machines and processes. LASYS addresses all industries and materials, in particular decision-makers from the international industry. The focus is on all tried-and-tested, but also innovative, manufacturing processes, applications and potential uses of laser in industrial manufacturing.

Around 5500 trade visitors from Germany and abroad came to see 187 exhibitors at LASYS in 2014. Almost every third visitor came from the mechanical engineering sector, 17% from motor vehicle construction followed

by the optical industry, plant and apparatus construction and the metal working and processing industry.

LASYS 2016 is co-located with a number of other trade fairs at the Stuttgart trade fair grounds: the automotive shows with Automotive Testing Expo Europe, Engine Expo, Automotive Interiors Expo, Global Automotive Components and Suppliers Expo, and the Autonomous Vehicle Test & Development Symposium, as well as O&S, the international trade fair for surface treatments and coatings, and parts2clean, the leading international trade fair for industrial parts and surface cleaning.

LASYS takes place at the Stuttgart trade fair centre from 31 May to 2 June 2016. Further information is available online at [www.lasys-messe.de](http://www.lasys-messe.de).

[www.slt.uni-stuttgart.de](http://www.slt.uni-stuttgart.de)

[www.messe-stuttgart.de/lasys/](http://www.messe-stuttgart.de/lasys/)

## Preview: 117. Annual Meeting of the DGaO

Hannover, Germany, 17–21 May 2016

The German Society of Applied Optics (DGaO) and the International Commission for Optics (ICO) jointly organize

The International Conference on Applied Optics and Photonics 2016 and the 117th Annual Meeting of the DGaO, which will be held from May, 17th to May 21st 2016 in Hannover, Germany. Supported by the Volkswagen Stiftung, the event will use the marvelous building for Schloss Herrenhausen as a conference venue.

Schloss Herrenhausen is a reconstructed royal palace, a unique venue offering both historic flair and state-of-the-art facilities for scientific conferences. The original palace was erected in 1640 but completely destroyed in the Second World War. It had been reconstructed recently and opened its doors in 2013.

At the DGaO Meeting, posters and short presentations from the following key topics will be presented:

- Optical Metrology and Sensing
- Optical Modeling and Simulation
- Applied Laser Technologies
- Polymer Optics and Photonics
- Integrated Optics
- Biophotonics

As a UNESCO organization, the ICO conference will add topics such as ‘Optics in developing countries’ and ‘Women in optics’.

[www.dgao.de/de/jahrestagung](http://www.dgao.de/de/jahrestagung)



The 117 Annual Meeting of the DGaO will be co-located with the International Conference on Applied Optics and Photonics 2016 of the ICO at the wonderful Schloss Herrenhausen in Hannover (Photo: James Steakley).