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Press release

LASER World of PHOTONICS

Supporting program for LASER World of PHOTONICS 2015

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From June 22 to 25, [LASER World of PHOTONICS](#) 2015 in Munich will be the meeting place for the international photonics industry. More than 1,180 exhibitors and 27,000 visitors are expected. The supporting program reflects current industry trends and provides an opportunity for technical dialog. With its eight conferences and approximately 2,700 lectures, the [World of Photonics Congress](#), being held in the ICM - Internationales Congress Center München from June 21 to 25, is one of the most important scientific platforms in the world.

2015: International Year of Light and Light-based Technologies

The 2015 LASER World of PHOTONICS and World of Photonics Congress are dominated by the [International Year of Light and Light-Based Technologies](#) (IYL). The UNESCO initiative is intended to highlight to the citizens of the world the importance of light and optical technologies in their lives, for their futures, and for the development of society.

Opening ceremony of the trade fair and congress on June 22

The LASER World of PHOTONICS and World of Photonics Congress will open on 22 June at 09:00 a.m. in the ICM - Internationales Congress Center München under the motto “Light Solutions for the Society Challenges of our World”. The welcoming addresses will acknowledge the political, economic and societal position and importance of optical technologies. Special guest speakers are: Dr. Flavia Schlegel (UNESCO), Dr. Lawrence Goldberg (National Science Foundation, USA), Dr. Yanne Chembo (African Physical Society), Prof. John Dudley (Chairman of the International Year of Light Steering Committee).

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The subsequent guided tour “Light Solutions for the Society Challenges of our World” uses concrete applications on exhibitors' stands to showcase the photonics world.

NEW: STARTUP World and PHOTONICS Award in Hall B3.325

For the first time LASER World of PHOTONICS will be offering a dedicated marketplace for young up-and-coming companies. There will be a new exhibition space “[STARTUP World](#)” in Hall B3.325, a collaborative venture with [Anwendungszentrum GmbH Oberpfaffenhofen](#) (AZO). This is where start-up companies can present their products to a wide industrial audience and get in touch with potential investors. On June 24, from 10:30 to 12:00, the PHOTONICS Award will honor the best ideas. The PHOTONICS Award covers the entire gamut of optical technologies in two categories. In addition to the cross-disciplinary category “Optical Technologies”, for the first time there is also a prize category majoring on 3D printing.

NEW: special show “Photonics Applications in Automotive Sector”

The new special show “[Photonics Applications in Automotive Sector](#)” in Hall A3.533 showcases the most diverse photonics application areas in automotive manufacturing, live and in a practical setting. For example, there will be a BMW i8 on display, the first vehicle to feature the all-new light technology, laser light. LASER World of PHOTONICS is sending a clear signal with the new special show: the world's leading photonics trade fair is the perfect meeting place for users and automotive industry suppliers and a must for trade visitors. The special show's sponsors and exhibitors are BMW Group, JENOPTIK Optical Systems GmbH, KUKA Industries, Reis GmbH & Co. KG Maschinenfabrik, LIMO Lissotschenko Mikrooptik GmbH, Newport Spectra-Physics GmbH, Polytec GmbH, ROFIN-SINAR Laser GmbH, Trioptics GmbH and TRUMPF Laser- und Systemtechnik GmbH.

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Special show “Photons in Production” in Hall A2.524

The special show “[Photons in Production](#)” in Hall A2.524 showcases laser application areas in industrial production under the banner “Next Generation”.

The key areas of the live demonstration are:

- Laser live demonstration: process acceleration by innovative system technology
- Laser welding: using adapted intensity distribution
- Metal-plastic composites: laser-based joining of laser-structured metals and thermoplastics
- Joining lithium-ion cells: laser welding in battery production
- Laser safety: testing laser material-processing systems
- Additive manufacturing: using laser melting to manufacture components
- Small and nice: laser micro material processing
- Two become one: laser beam joining of dissimilar materials

Cooperation partners of Messe München are the Institut für Werkzeugmaschinen und Betriebswissenschaften of the TU Munich (iwb) (Institute for Machine Tools and Industrial Management) and the Bayerische Laserzentrum Erlangen (blz) (Bavarian Laser Center).

Special show “3D Printing – Additive Manufacturing” in Hall A3.541

The special show “[3D Printing – Additive Manufacturing](#)” showcases the production chain from digital data to customized or complex components. This is where trade visitors can find out about the advantages of 3D printing for the design and production of bespoke components. Cooperation partners of Messe München are: the Fraunhofer Institut für Lasertechnik (ILT) (Fraunhofer Institute for Laser Technology), the Bayerische Laserzentrum Erlangen (blz) (Bavarian Laser Center), the Chair of Photonics Technologies of the University of Univer-

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sität Erlangen-Nürnberg (LPT), the Institut für Werkzeugmaschinen und Betriebswissenschaften TU Munich (Institute for Machine Tools and Industrial Management) (iwb Anwenderzentrum Augsburg), the Fraunhofer-Institut für Werkzeugmaschinen und Umformtechnik (IWU) (Fraunhofer Institute for Machine Tools and Forming Technology), the Fraunhofer-Institut für Werkstoff- und Strahltechnik (IWS), (Fraunhofer Institute for Material and Beam Technology), the special “Additive Manufacturing” Research Center 814 and industrial partners.

Practical lectures at the photonics forums (Halls A2, A3, B3)

The World of Photonics Congress is once again using the practical lectures as a vehicle for integrating application-oriented lecture series into its program, bridging the gap between theory and practice. The Application Panels at the Photonics Forums in Halls A2, A3 and B3 offer all visitors, exhibitors and congress participants free lectures on current topics such as biophotonics, additive manufacturing, optical metrology, laser processing of glass and much else besides. In 2013 approximately 1,700 participants attended the practical lectures. They are sub-divided into four fields.

Photonics Forum “Biophotonics and Medical Applications” (Hall B3.561):

- Laser Advanced New Methods for Diagnostics and Therapeutics (Monday, 22.06.2015, 12:20–14:40)
- Laser Applications in Optical Diagnostics and Ophthalmology (Monday, 22.06.2015, 14:40–17:00)
- Visions for Future Diagnostics – Infectious Diseases (Tuesday, 23.06.2015, 10:00–12:20)
- Innovation and Trends for Laser Solutions in Life Science and Bioinstrumentation (Tuesday, 23.06.2015, 12:20–14:40)

Photonics Forum “Laser and Optics” (Hall B3.561)

- Pico- and Femtosecond Lasers—Status and Prospects (Tuesday, 23.06.2015, 14:40–17:00)

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- CW (and Long-Pulse) Diode-Pumped Solid State Lasers and Fiber Lasers—Status and Prospects (Wednesday, 24.06.2015, 10:00–12:20)
- High-Power Diode Lasers: Edge Emitters and Vertical Emitters—Status and Prospects (Wednesday, 24.06.2015, 14:40–17:00)

Photonics Forum “Industrial Laser Applications” (Hall A3.533)

- Advanced Applications of Ultrashort Pulsed Laser Systems (Monday, 22.06.2015, 14:40–17:00)
- 3D-Printing: Laser-Based Additive Manufacturing for Production of Metal Parts (Tuesday, 23.06.2015, 10:00–12:20)
- Ultrafast Laser Beam Deflection and Transportation (Tuesday, 23.06.2015, 14:40–17:00)
- Lasers in Microelectronics: The Smart World Approaching (Wednesday, 24.06.2015, 10:00–12:20)
- Increased Automotive Efficiency Enabled by Laser Technology (Wednesday, 24.06.2015, 14:40–17:00)
- Laser Processing of Glass (Thursday, 25.06.2015, 10:00–12:20)

Photonics Forum “Optical Metrology and Imaging” (Hall A2.250)

- Contact-Free 3D Measurement Methods Ranging from Laser-Scanning to Imaging (Monday, 22.06.2015, 14:40–17:00)
- High-Coherence Metrology from Long-Distance to Nanoscale Dimensions (Tuesday, 23.06.2015, 10:00–12:20)
- Terahertz Spectroscopy and Inspection in Industrial Applications (Tuesday, 23.06.2015, 14:40–17:00)

[Application Panels Overview](#): All lectures in detail.

NEW: Industry 4.0 in the optics industry

Optical components and systems are essential building blocks in delivering flexible, networked production solutions as part of Industry 4.0 The forum “Industry 4.0 in the Optics Industry”, organized by Spectaris, is dedicated to the manufac-

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turing of optical systems, and manufacturing with optical systems based on selected examples. Speakers will be discussing requirements, solutions and gaps, to make Industry 4.0 a success story in the key technology that is photonics.

Wednesday, June 24, 12:20–14:20, Forum A3.450

12th International Laser Marketplace (conference room, Press Center West)

Co-Organized with Optech Consulting, LASER World of PHOTONICS 2015 is staging the 12th International Laser Marketplace. The seminar on markets and trends in Laser Materials Processing takes place on Wednesday, June 24, 13:00–17:00 in the conference room of Press Center West and addresses executives in the laser industry. Worldwide leading experts will discuss international markets and market trends as well as new applications and technologies.

Additional information and registration [here](#).

Career Center (daily, Hall B1.561)

Once again in 2015, the LASER World of PHOTONICS is putting on the Career Center in collaboration with its career partner beratungsgruppe wirth + partner. The jobs board in the Career Center in Hall B1 is where those who are interested will find current job vacancies as well as trainee and internship opportunities being offered by exhibitors at the LASER World of PHOTONICS. At the same time university graduates and engineers and physicists with professional experience can receive complimentary career advice from experienced personnel experts between 10:00 and 17:00.

Turning research into applications: Biophotonics Innovations for Medicine and Life Sciences (Hall B3.470)

Biophotonics research is one of the driving forces in medical engineering. The market is experiencing rapid development. The trade fair stand showcases current research activities together with product developments from the latest joint projects being funded by the Federal Ministry of Education and Research (BMBF). The exhibits are from the Point-of-Care (POC) diagnostics (e.g. the identification of infective agents), high-resolution microscopy and optical in-vivo imaging fields.

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World of Photonics Congress 2015

The World of Photonics Congress is taking place in parallel with the LASER World of PHOTONICS. It is one of the leading international congresses in Europe and among the Top 3 worldwide. Keynote speeches by Nobel prize-winners, the presentation of innumerable awards, eight conferences and more than 2,700 scientific and practical lectures – this year's World of Photonics Congress is setting new records. In 2013, 5,000 people attended the more than 2,500 lectures.

World of Photonics Congress 2015: [Program Highlights in the International Year of Light](#).

This and other press releases: [here](#)

Photos LASER World of PHOTONICS: [here](#)

Photos World of Photonics Congress: [here](#)

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About LASER World of PHOTONICS

The [LASER World of PHOTONICS](#) is the world's leading get-together of the laser and photonics industry. Europe's largest [World of Photonics Congress](#) will be taking place in parallel with the trade fair. The program comprises five scientific conferences of leading global organizations. Supplementing this [Messe München GmbH](#) will be offering practical lectures on the applications of photonics ("Application Panels"). The combination of trade fair and congress brings together research and application, thereby promoting the use and continued development of optical technologies. In 2013 the trade fair set an exhibitor record with 1,130 exhibitors from 37 countries. A total of 26,582 trade visitors from 72 countries entered the Messe München site.

In 2013 the World of Photonics Congress registered 3,400 participants with an offering of more than 2,800 lectures and presentations including poster presentations.

The LASER World of PHOTONICS has been organized every two years by Messe München International since 1973; the next event will take place in Munich from 22-25 June 2015, the next World of Photonics Congress will take place in parallel from 21-25 June 2015 in the ICM - International Congress Center Munich.

About the LASER World of PHOTONICS global network

The LASER World of PHOTONICS has developed an international network. The [LASER World of PHOTONICS CHINA](#) and the [LASER World of PHOTONICS INDIA](#) are leading regional trade fairs for optical technologies and are staged annually in China (Shanghai) or in India (alternating between Mumbai, Bangalore, New Delhi).

Messe München International

Messe München International is one of the world's leading trade show companies. In Munich alone it organizes around 40 trade shows for capital and consumer goods, and key high tech industries. Each year more than 30,000 exhibitors and around two million visitors take part in the events held at the Messe München exhibition center, the ICM – International Congress Center München, and in the MOC Veranstaltungszentrum München.

The leading international trade fairs of Messe München International are all independently audited.

In addition, Messe München International organizes trade shows in China, India, Turkey and South Africa. With a combination of affiliates abroad – in Europe, Asia and in Africa – and over 60 foreign representatives actively serving over 100 countries, Messe München International has a worldwide business network. The Group also takes a pioneering role as regards sustainability: It is the first trade-fair company to be awarded energy-efficiency certification from the technical inspection authorities TÜV SÜD.

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