



FOREWORD

Are you looking for a forum where users, manufacturers and developers can intensively exchange ideas on the current state and perspectives of laser technology? Do you appreciate personal networking of technology suppliers and customers, all to develop new strategies for your area of responsibility and to profit from experience from this sector? Then you have found the right event, the AKL'16.

For the 11th time, laser manufacturers and laser users from various branches will meet at the biannual International Laser Technology Congress AKL. Featuring over 600 participants, around 70 speakers and over 40 sponsors, the AKL has established itself as the leading forum for applied laser technology in Europe. Supporting organizations include European Commission, European Photonics Consortium EPIC, the Arbeitskreis Lasertechnik e.V., European Laser Institute, OptecNet as well as industrial associations such as SPECTARIS, VDA, VDMA and VDI.

Join us and profit from AKL's international character, thanks to its simultaneous translations in German and English. In addition, you can use the environment of the congress to find out more about the newest technological breakthroughs in over 70 live presentations of the Fraunhofer ILT.

We look forward to seeing you there!



Prof. Dr. rer. nat. Reinhart Poprawe
Director of the Fraunhofer Institute for Laser Technology ILT

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ANNOUNCEMENT

AKL – INTERNATIONAL LASER TECHNOLOGY CONGRESS

APRIL 27 - 29, 2016 IN AACHEN

Organization

Fraunhofer Institute for Laser Technology ILT
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Supporting Organizations

- Arbeitskreis Lasertechnik e.V.
- ELI – European Laser Institute
- EPIC – European Photonics Industry Consortium
- European Commission
- OptecNet – Innovation Networks for Optical Technologies
- SPECTARIS – German Industry Association for Optical, Medical and Mechatronical Technologies
- VDA – German Association of the Automotive Industry
- VDI Technology Center
- VDMA – German Engineering Federation

Media Partner



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AKL'16
INTERNATIONAL LASER
TECHNOLOGY CONGRESS



AKL'16 – INFORMATION, INSPIRATION, NETWORKING

AKL'14 - FACTS AND FIGURES

- 629 Participants
- 74 Speakers
- 86 Live Presentations
- 47 Exhibitors

The **Technology Business Day** is directed at leading managers and marketing directors who want specific information on the status and perspectives in the European, American and Asian laser markets.

You have little or no experience in how laser technology can be used? Then you can obtain the foundations on how lasers work and where they can be applied in the **Laser Technology ABC's** seminar.

- Forum „Process Control“ **NEW!**
- Forum „Laser Additive Manufacturing“ **NEW!**

If you would like to delve deeper into **Process Control** or **Laser Additive Manufacturing**, you can get a comprehensive overview on the state of the art and current developments in two separate forums. As well as useful contacts to designated experts.

→→ www.lasercongress.org



Laser Technology Conference AKL'16

Over 70 experts from research and industry will bring you up to date on the current trends in laser technology. In particular, practitioners and strategists from the automotive industry, the aviation and machine construction, electronic as well as medical technology can obtain new ideas for their individual applications through practical examples. In professional lectures and discussion forums or at the live demonstrations, experience what is current and relevant for the future in laser technology.

Subject to minor changes.

At the accompanying **Sponsors' Exhibition**, noteworthy companies from laser engineering show on all three days innovative products and processes, encompassing all aspects of laser technology, to interested congress participants.

Laser Technology Live

Over 70 Live presentations will take place at the Application Center of the Fraunhofer Institute for Laser Technology ILT.

MAIN TOPICS

Gerd Herziger Session

- Laser Technology Trends and R&D Demands

Laser Beam Sources

- Solid State and Fiber Lasers
- Ultrashort Pulsed Lasers
- Lasers with Tailored Wavelengths
- Diode Lasers

Laser Manufacturing Processes in Macro Areas

- Laser Welding and Laser Cutting
- Selective Laser Melting
- Laser Material Deposition

Laser Manufacturing Processes in Micro Areas

- Microstructuring
- Polishing and Thin Film Processes
- Micro Joining
- Applications in Ultrafast Lasers