



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'18.

For the 12th 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 50 sponsors and exhibitors, the AKL has established itself as the leading forum for applied laser technology in Europe. Supporting organizations include European Commission, Arbeitskreis Lasertechnik e.V., European Laser Institute, OptecNet as well as industrial associations such as SPECTARIS, VDA, VDMA, VDI and the European Photonics Consortium EPIC.

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 80 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

MAY 2 - 4, 2018 IN AACHEN

### Organization

Fraunhofer Institute for Laser Technology ILT  
[www.ilt.fraunhofer.de](http://www.ilt.fraunhofer.de)

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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

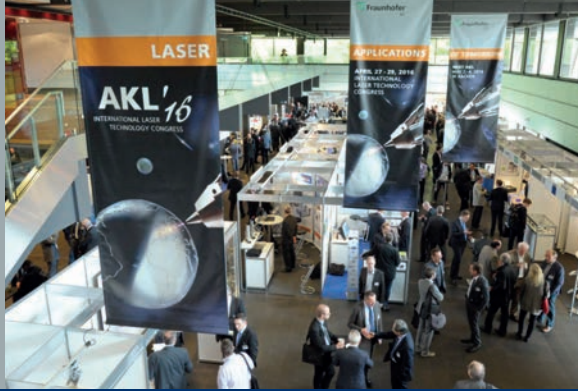
### Media Partner



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**AKL'18**  
INTERNATIONAL LASER  
TECHNOLOGY CONGRESS



AKL'18 – INFORMATION, INSPIRATION, NETWORKING

PROGRAM STRUCTURE – AKL'18

## FACTS AND FIGURES – AKL'16

- 691 Participants
- 79 Speakers
- 91 Live Presentations
- 52 Exhibitors

### AKL'18 – Laser Technology Conference

The AKL'18 Laser Technology Conference provides a comprehensive overview of current developments in laser materials processing in macro and micro areas and in laser beam development. Over 70 experts from research and industry will bring you up to date on the current trends in laser technology. Whether you are active in the automotive or aerospace industry, electrical or power engineering, mechanical engineering or microtechnology – you will get firsthand know-how and practice-relevant suggestions at the AKL'18. Moreover, it offers the ideal platform to intensively exchange ideas and experience.

### Laser Technology Live

Over 80 live presentations will take place at Fraunhofer Institute for Laser Technology ILT and companies of the Application Center.

### Sponsors' Exhibition

International companies from laser engineering show innovative products and processes, encompassing all aspects of laser technology, to interested congress participants.

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### Technology Business Day

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.

### Seminar Laser Technology ABC's

If you have little or no experience in laser technology you can obtain the foundations on how lasers work and where they can be applied in the Seminar Laser Technology ABC's.

### Forums "Process Control" and "Laser Additive Manufacturing"

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

## ACCOMPANYING EVENTS

### Innovation Award Laser Technology 2018

The Innovation Award Laser Technology is an European research prize awarded by Arbeitskreis Lasertechnik e.V. and ELI in recognition of outstandingly innovative work in the field of laser technology. The official presentation of the award will take place at the AKL'18.

### Opening of the "Research Center DPP"

During the AKL'18 we invite you to take part in the inauguration of the "Research Center Digital Photonic Production DPP". This new 4.300 m<sup>2</sup> net floor building features interdisciplinary research competence in Aachen.

Lectures are presented in English and German with simultaneous interpreting.

## WEDNESDAY

Seminar Laser Technology ABC's

Forum Process Control

Technology Business Day

Forum Laser Additive Manufacturing

Sponsors' Exhibition with 50 sponsors

Dinner with Presentation of the "Innovation Award Laser Technology 2018"

## THURSDAY

### Gerd Herziger Session

- Perspectives and Challenges for Laser Technology
- Digital Photonic Production

### Laser Material Processing – Macro

- Selective Laser Melting

### Laser Material Processing – Micro

- Micro Structuring

### Laser Beam Sources

- Solid State and Fiber Lasers

### Laser Technology Live

- Over 80 Live presentations at Fraunhofer ILT & Application Center

Sponsors' Exhibition with 50 sponsors

Official Opening of the "Research Center DPP"

## FRIDAY

### Laser Material Processing – Macro

- Cutting
- Welding
- Laser Material Deposition

### Laser Material Processing – Micro

- Micro Joining
- Ultrafast Lasers – Applications
- Polishing and Thin Film Processing

### Laser Beam Sources

- Ultrafast Lasers – Beam Sources
- Lasers with Tailored Wavelengths
- Diode Lasers

### Outlook

- Prof. Reinhart Poprawe

Program subject to minor changes.