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LOCATION

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ORGANIZATION

Fraunhofer Institute for Laser Technology ILT
Steinbachstraße 15, 52074 Aachen, Germany
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PARTICIPANTS

661 participants from 26 different countries (as of May 7, 2018)

LECTURES

77 speakers and 15 chairmen

CONFERENCE STRUCTURE

Wednesday, May 2, 2018

- Seminar Laser Technology ABC's
- Technology Business Day
- Forum Laser Additive Manufacturing
- Forum Process Control
- Accompanying Sponsors' Exhibition
- Award Ceremony of the "Innovation Award Laser Technology 2018"

Thursday, May 3, 2018

- AKL'18 – Laser Technology Conference
- Accompanying Sponsors' Exhibition
- "Laser Technology Live" at Fraunhofer ILT
- Kick-off I³-Research Center DPP
- AKL'18 Networking with Snacks at Research Campus DPP

Friday, May 4, 2018

- AKL'18 – Laser Technology Conference
- Accompanying Sponsors' Exhibition

CHOICE OF TOPICS: May 2, 2018

Seminar Laser Technology ABC's

- Laser Processing in Industrial Practice
- Form and Guide of Laser Radiation
- Safety, Regulation and Profitableness of Industrial Laser Processes
- Current Trends in Laser Technology

Technology Business Day

- International Laser Market in Europe, America, China and Japan
- Laser Processing in Lightweight Production
- Metal Additive Manufacturing
- Trends of Laser Processing in Microelectronic, Automotive Industry, Aircraft and Energy Technology

**Forum Laser Additive
Manufacturing**

- Software Solutions for Digital AM Process Chains and LMD-Based AM Machines
- Additive Manufacturing of Seal Segments and Big Tools
- Additive and Hybrid-Additive Manufacturing with Laser Material Deposition
- Additive Manufacturing Lightweight Aluminum Construction

Forum Process Control

- Process Monitoring and Control in Laser Material Deposition and Laser Plastic Welding
- New Sensor and System Components for Laser Process Monitoring
- Holisitc, Intelligent and Networked – Industrie 4.0

CHOICE OF TOPICS: May 3–4, 2018 – LASER TECHNOLOGY CONFERENCE

- Gerd Herziger Session**
- Take 5 – Chances and Challenges for Laser Technology
 - Digitization in Photonic Production
- Laser Beam Sources**
- Solid State and Fiber Lasers
 - Ultrafast Lasers
 - High Performance VCSEL
 - Achievements and Perspectives of Quantum Technology
- Laser Material Processing Macro**
- Additive Manufacturing
 - Laser Cutting
 - Laser Welding
 - Laser Material Deposition
- Laser Material Processing Micro**
- Micro Structuring
 - Micro Joining
 - Material Processing with UKP-Lasers
 - Polishing and Thin Film Processes

Further information and photos at www.lasercongress.org

LASER TECHNOLOGY LIVE

Over 100 live presentations and exhibits at the Fraunhofer Institute for Laser Technology ILT and companies in the Institute's Application Center

EXHIBITION

56 laser, component and system manufacturers showcase their products at the accompanying conference exhibition

SUPPORTING ORGANISATIONS

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

INNOVATION AWARD

The 10,000 € doped "Innovation Award Laser Technology" is a European research prize awarded every other year by the associations Arbeitskreis Lasertechnik AKL e. V. and the European Laser Institute ELI e. V. The award can be conferred on an individual researcher or on an entire project group, whose exceptional skills and dedicated work have led to an outstanding innovation in the field of laser technology. The scientific and technological projects in question must center on the use of laser light in materials processing and the methods of producing such light, and must furthermore be of demonstrable commercial value to industry. The Award Ceremony took place on May 2, 2018 at the evening event of the AKL'18 in the Coronation Hall of Aachen's town hall.

1st prize: team Dr. Axel Luft, Laserline GmbH, Mülheim-Kärlich, Germany

2nd prize: team Dr. Gerald Jenke, Saueressig GmbH + Co. KG, Vreden, Germany

3rd prize: team M.Sc. Eng. Alejandro Bárcena, Talens Systems S.L. Etxe-Tar Group, Elgoibar, Spain

Further information and photos at www.innovation-award-laser.org

PHOTONICS CLUSTER IN RWTH AACHEN CAMPUS

On the premises of the Photonics Cluster in the RWTH Aachen Campus, the "Digital Photonic Production DPP Research Campus" explores the use of light as a tool in production of the future. The DPP Research Campus constitutes a new form of long-term and systematic cooperation between RWTH Aachen University, the Fraunhofer-Gesellschaft and around 20 industrial partners under one roof. This innovative form of cooperation is part of the "Research Campus - Public-Private Partnership for Innovation", funded by the German Federal Ministry of Education and Research, BMBF. As a complement to and in the immediate vicinity of the DPP Research Campus, the interdisciplinary, integrative institute "I³ Research Center for Digital Photonic Production RCDPP" will begin working in the summer of 2018. A total of 16 institutes from 6 faculties will link their work directly to the R&D topics of the DPP Research Campus: a strong network for digital photonic production.