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ORGANIZATION Fraunhofer Institute for Laser Technology ILT
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www.lasercongress.org

PARTICIPANTS 691 Participants (as of May 2, 2016)

LECTURES 79 Speakers and 17 Chairmen

CONFERENCE STRUCTURE

Wednesday, April 27, 2016

- 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 2016"

Thursday, April 28, 2016

- AKL'16 – Laser Technology Conference
- Accompanying Sponsors' Exhibition
- "Laser Technology Live" at Fraunhofer ILT
- Inauguration of the Photonics Cluster at RWTH Aachen Campus

Friday, April 29, 2016

- AKL'16 – Laser Technology Conference
- Accompanying Sponsors' Exhibition

TOPICS: April 27, 2016

Seminar Laser Technology ABC's

- Functioning of the Laser Processing Methods
- Application Areas of Lasers and Practical Industrial Examples
- Laser Technology for Industry 4.0
- Monitoring and Control of Laser Manufacturing Processes
- Current Trends in Laser Technology

Technology Business Day

- International Laser Market
- Laser Markets in Europe, America, China and Japan
- Trends of Laser Processing in Electronic, Aircraft and Metalworking Industries

Forum Laser Additive Manufacturing

- Overview of SLM and LMD Manufacturing Processes and Fields of Application
- Serial Additive Manufacturing and Production Systems
- Integration of Additively Manufactured Components in Aviation Industries
- Presentation of the Aachen Networks ACAM and ICTM

Forum Process Control

- Process Monitoring and Control in Laser Material Processing
- Sensor and System Components for Laser Process Monitoring and Areas of Application
- Process Monitoring in Automotive and Electronics Production

TOPICS: April 28 – 29, 2016 – LASER TECHNOLOGY CONFERENCE

- Gerd Herziger Session**
- Current Perspectives and Challenges for Laser Technology
 - Digital Photonic Production and Industry 4.0
- Laser Beam Sources**
- Solid State and Fiber Lasers
 - Ultrafast Lasers
 - Lasers with Tailored Wavelengths
 - Diode Lasers
- Laser Material Processing Macro**
- Selective Laser Melting
 - Laser Cutting
 - Laser Welding
 - Laser Material Deposition
- Laser Material Processing Micro**
- Micro Structuring
 - Micro Joining
 - Material Processing with USP-Lasers
 - Polishing and Thin Film Processes

Further Information and Photos at: www.lasercongress.org

LASER TECHNOLOGY LIVE

91 Live Presentations and Exhibits at the Fraunhofer Institute for Laser Technology ILT and Companies in the Institute's Application Center

EXHIBITION

52 Laser, Component and System Manufacturers showcase their Products at the Accompanying Conference Exhibition

SUPPORTING ORGANISATIONS

- 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

INNOVATION AWARD

The 10,000 € doped "Innovation Award Laser Technology" is a European research prize awarded every other year by the associations Arbeitskreis Lasertechnik e.V. and the European Laser Institute ELI. 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 April 27, 2016 at the Evening Event of the AKL'16 in the Coronation Hall of Aachen's Town Hall.

1st Prize: Team Dr. Ir. A. Pruijboom, Philips GmbH Photonics Aachen, Germany

2nd Prize: Team Dr.-Ing. J. Weberpals, Audi AG, Neckarsulm, Germany

3rd Prize: Team Dr. rer.nat. R. Delmdahl, Coherent LaserSystems GmbH & Co. KG, Göttingen, Germany

Further Information and Photos at: www.innovation-award-laser.org

PHOTONICS CLUSTER AT RWTH AACHEN CAMPUS

Owing to RWTH Aachen Campus a dynamic technology-oriented research landscape has emerged. On this campus, a total of 16 specialized research clusters are planned: in the "Photonics Cluster", which Fraunhofer ILT is coordinating, optical technologies are at the center of focus. The first building, designed by KPF Architects, has been inaugurated on April 28, 2016, during the AKL'16. Here, on around 7,000 square meters of office and laboratory space, companies and their own R&D teams can develop – in close cooperation with Fraunhofer ILT – new laser processes and systems. The Photonics Cluster will be extended step-by-step, creating a total research space of 40,000 square meters.

Further Information at: www.dpp.rwth-campus.com