

FACTS AND FIGURES

DATE	<p>May 5, 2010 Seminar Laser Technology ABCs Technology Business Day TBT EU Innovation Forum »Additive Manufacturing in Aeronautics and Power Generation« Presentation of the »Innovation Award Laser Technology 2010«</p> <p>May 6, 2010 AKL'10 International Laser Technology Congress Accompanying Sponsors Exhibition Celebration of the 25th Anniversary of the Fraunhofer ILT</p> <p>May 7, 2010 AKL'10 International Laser Technology Congress Accompanying Sponsors Exhibition »Laser Technology Live« at the Fraunhofer ILT</p>
ORGANIZER	<p>Fraunhofer Institute for Laser Technology ILT Steinbachstraße 15 52074 Aachen, Germany Phone +49 241 8906-0 Fax +49 241 8906-121 akl@lasercongress.org www.lasercongress.org www.ilt.fraunhofer.de</p>
SUPPORTING ORGANIZATIONS	<p>Arbeitskreis Lasertechnik e.V. EUROM - European Industry Association for Precision Engineering and Optics European Commission ELI - European Laser Institute SPECTARIS - German Industry Association for Optical, Medical and Mechatronical Technologies VDA - German Association of the Automotive Industry VDI-Technology Center Physical Technologies VDMA - German Engineering Federation</p>
LECTURES	<p>58 speakers und 10 moderators</p>
TOPICS	<p>SEMINAR LASER TECHNOLOGY ABCs</p> <ul style="list-style-type: none"> - Operating mode of laser materials processing - Fields of application of laser technology - Practical examples - Choice of suitable optics - Monitoring of laser manufacturing processes <hr/> <p>TECHNOLOGY BUSINESS DAY TBT</p> <ul style="list-style-type: none"> - Global laser market - Laser markets in Europe, USA, Japan and China - Challenges and trends of laser materials processing in automotive engineering and power engineering - Prospects for the diode laser market <hr/> <p>EU INNOVATION FORUM</p> <p>Additive Manufacturing in Aeronautics and Power Generation</p> <ul style="list-style-type: none"> - Final presentation of EU project FANTASIA - Laser metal deposition in turbo machinery - Laser deposition in component repair and tooling applications

TOPICS**AKL'10 INTERNATIONAL LASER TECHNOLOGY CONGRESS****Laser beam sources**

- Promotion laser technology: fiber - disk – slab – rod – diode
Next generation high power lasers (Gerd Herziger Session)
- High brightness diode lasers
- High power ultra fast pulsed lasers
- New lasers for new applications

Laser material processing

- Laser welding and laser cutting
- System technology and quality control
- Laser assisted additive manufacturing
- Functional surfaces and thin films
- Laser drilling and ablation
- Ultra precision processing
- Laser processing in solar technology

Laser Measuring Technology

- Processes and systems for clinical diagnostics and bioanalytics

Further information and fotos at www.lasercongress.org

PRESENTATIONS

80 live presentations and exhibits at the Fraunhofer Institute for Laser Technology ILT and at the companies of the Laser Application Center

EXHIBITORS/SPONSORS

34 laser, component and system manufacturers showcase their products at the sponsors exhibition

PARTICIPANTS

500

**INNOVATION AWARD
LASER TECHNOLOGY**

The Innovation Award Laser Technology is an 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 international jury nominated 3 Innovation Teams:

- First Winner: Q-switched INNOSLAB lasers for high quality micro processing
Team representative: Dr. rer. Nat. Keming Du, EdgeWave GmbH
- Second Winner: Laser Hybrid welding of thick sheet metals with disk lasers in shipbuilding industry
Team representative: Dipl.-Ing. Jürgen Dupré, Rolls-Royce Deutschland Ltd & Co KG
- Third Winner: New repair technique for aero-engine components using Laser Metal Deposition
Team representative: Dipl.-Ing. Hermann Lembeck, MEYER WERFT Laserzentrum GmbH

The prize winner was honoured on May 5, 2010 at a ceremony of the International Laser Technology Congress AKL'10 in the coronation hall of Aachen's town hall.

Further information and fotos at www.lasercongress.org