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**LOCATION**

Eurogress Aachen, Monheimsallee 48, 52062 Aachen, Germany [www.eurogress-aachen.de](http://www.eurogress-aachen.de)

**ORGANIZATION**

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

**PARTICIPANTS**

Over 600 Participants

**LECTURES**

76 Speakers and 14 Chairmen

**CONFERENCE STRUCTURE**

**Wednesday, May 9, 2012**

- Seminar Laser Technology ABC's
- Technology Business Day TBT
- Focus Seminar "Foundations and New Developments in Ultrashort Pulse Laser Technology"
- EU Innovation Forum 1 "Laser Additive Manufacturing (LAM) in Aeronautics and Power Generation"
- EU Innovation Forum 2 "Perspectives of Polymer Welding with Lasers"
- Award Ceremony of the "Innovation Award Laser Technology 2012"

**Thursday, May 10, 2012**

- AKL'12 – Laser Technology Conference
- Accompanying Sponsors' Exhibition
- Get-Together at "Ludwig Forum for International Art"

**Friday, May 11, 2012**

- AKL'12 – Laser Technology Conference
- Accompanying Sponsors Exhibition
- "Laser Technology Live" at Fraunhofer ILT

**TOPICS: 9. Mai 2012**

**Seminar Laser Technology ABC's**

- Functioning of the Laser Processing Methods
- Application Areas of Lasers
- Practical Examples
- Choice of Suitable Optics
- Monitoring of Laser Manufacturing Processes

**Technology Business Day**

- Worldwide Laser Markets
- Laser Markets in Europe, USA and China
- Material Trends and Technological Challenges for Laser Applications

**EU Innovation Forum 1**

**"Laser Additive Manufacturing (LAM) in Aeronautics and Power Generation"**

- Presentation of the EU Project MERLIN
- Laser Material Deposition in Turbomachinery
- Repair Methods for Engine Components

**EU Innovation Forum 2**

**"Perspectives of Polymer Welding with Lasers"**

- Presentation of the EU Project POLYBRIGHT
- Processes for the Laser Polymer Welding
- Selection of suitable Beam Sources and Process Optimization for Polymer Welding

**Focus Seminar**

**"Foundations and New Developments in Ultrashort Pulse Laser Technology"**

- Basics in Ultrashort Pulse Laser Technology
- Process Optimization of Micromachining with Ultrashort Pulse Laser
- New Laser Beam Sources and Processing Plants in the Ultrashort Pulse Laser Technology

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**TOPICS: May 10 - 11, 2012 – LASER TECHNOLOGY CONFERENCE**
**Laser Beam Sources**

- Solid State and Fiber Lasers
- Ultrashort Pulse Lasers
- Frequency Doubled Lasers
- Diode Lasers

**Laser Material Processing Macro**

- Laser Welding
- Laser Cutting
- Laser Additive Processes
- Process Monitoring in Laser Material Processing

**Laser Material Processing Micro**

- Micro and Nano Structuring
- Polishing and Thin Film Processes
- Micro Joining
- Micro Drilling

Further Information and Photos at: [www.lasercongress.org](http://www.lasercongress.org)

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**LASER TECHNOLOGY LIVE**

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

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**EXHIBITION**

45 Laser, Component and System Manufacturers showcase their products at the Sponsors' Exhibition

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**SUPPORTING ORGANISATIONS**

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

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**INNOVATION AWARD**

The Innovation Award Laser Technology 2012, initiated by the associations Arbeitskreis Lasertechnik e.V. and the European Laser Institute ELI and provided with 10,000 Euros prize money, has been conferred to Dr. Stephan Brüning, responsible for R&D Laser applications within Schepers GmbH & Co. KG, Vreden, Germany on May 9, 2012 in Aachen's town hall. Dr. Stephan Brüning and his team have applied to the open call for proposals with the innovation "3D micro-structuring of large scale metal surfaces for embossing and printing applications with high power ultrashort pulse-lasers". In the historical ambience of the "Coronation Hall" around 300 guests attended the awarding ceremony.

Further Information and Photos at: [www.innovation-award-laser.org](http://www.innovation-award-laser.org)