AKL - INTERNATIONAL LASER TECHNOLOGY CONGRESS

MAY 9 -11, 2012 IN AACHEN
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’12.

For the ninth time, laser manufacturers and laser users from various branches will meet at the biannual International Laser Technology Congress AKL. Featuring over 500 participants, around 70 speakers and over 30 sponsors, the AKL has established itself as the leading forum for applied laser technology in Germany. Supporting organizations include European Commission, European Photonics Industry Consortium EPIC, the Arbeitskreis Lasertechnik e.V., European Laser Institute as well as industrial associations such as SPECTARIS, VDA, VDMA and VDI.

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 70 live presentations of the Fraunhofer ILT.

We look forward to seeing you there!

Prof. Dr. rer. nat. Reinhart Poprawe M.A.
Director of the Fraunhofer Institute for Laser Technology ILT
The Laser Technology Conference AKL’12 provides a comprehensive overview of current developments in laser materials processing in the macro and micro areas and the laser beam development. Moreover, it offers laser manufacturers and users an ideal platform to intensively exchange ideas and experience.

At the accompanying Sponsors’ Exhibition, noteworthy companies from laser engineering show innovative products and processes, encompassing all aspects of laser technology, to interested congress participants.

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.

You have little or no experience in how laser technology can be used? Then you can obtain the foundations on how lasers work and where they can be applied in the Laser Technology ABC’s seminar.

The EU Innovation Forum »Laser Additive Manufacturing (LAM) in Aeronautics and Power Generation« offers experts from the aeronautics and energy sector the opportunity to exchange information in the area of additive manufacturing.

The EU Innovation Forum »Perspectives of Polymer Welding with Lasers« is directed toward manufacturing technologists, material experts, designers and developers who deal with plastics processing in the manufacturing industries.

The Focus Seminar »Foundations and New Developments in Ultrashort Pulse Laser Technology« offers laser users from the sectors of micro, solar, medicine and tool technology the opportunity to intensively discuss the current applications and perspectives of the innovative USP lasers.

Social Program
- Dinner in the sophisticated and historical ambience of the Coronation Hall of Aachen’s Town Hall with presentation of the »Innovation Award Laser Technology« on May 9, 2012 www.innovation-award-laser.org
- Get-Together on May 10, 2012 at the »Ludwig Forum for International Art«

Conference Language
- Lectures are presented in English and German with simultaneous interpreting.
## EU INNOVATION FORUM 1 - Laser Additive Manufacturing (LAM) in Aeronautics and Power Generation (in English)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Registration and Coffee Reception</td>
</tr>
<tr>
<td>09:00</td>
<td>Welcome&lt;br&gt;Chairman: Dr. Ingomar Kelbassa, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>09:15</td>
<td>Opening Speech&lt;br&gt;Tii Jürimäe, Director Unit Aeronautics, EU Commission</td>
</tr>
<tr>
<td>09:30</td>
<td>EU Project MERLIN&lt;br&gt;Needs and Demands for the Manufacture of Next Generation Jet Engine Components - Market Pull&lt;br&gt;Dr. Jeffrey Allen, Rolls Royce plc., Derby (UK)</td>
</tr>
<tr>
<td>09:45</td>
<td>Laser Additive Manufacturing as a Key Enabler for the Manufacture of Next Generation Jet Engine Components - Technology Push&lt;br&gt;Dr. Carl Hauser, TWI Technology Centre (Yorkshire) Ltd, Rotherham (UK)</td>
</tr>
<tr>
<td>10:00</td>
<td>Additive Manufacturing of Turbine Engine Parts by Selective Laser Melting&lt;br&gt;Dr. Wilhelm Meiners, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>10:15</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>10:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:00</td>
<td>Innovation Impact of LAM&lt;br&gt;Additive Manufacturing in Turbo-Engine Applications&lt;br&gt;Dr. Andres Gasser, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>11:30</td>
<td>Laser Metal Deposition for Maintenance, Repair and Overhaul at Siemens Power Generation&lt;br&gt;Dr. Dimitrios Thomaidis, Siemens AG, Energy Sector Fossil Power Generation Division, Berlin (D)</td>
</tr>
<tr>
<td>12:00</td>
<td>Laser Based MRO of Compressor and Steam Turbine Components at MAN Diesel &amp; Turbo SE&lt;br&gt;Christoph Korbmacher, MAN Diesel &amp; Turbo SE, Oberhausen (D)</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00</td>
<td>Shuttle from Eurogress to Fraunhofer ILT</td>
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<tr>
<td>14:30</td>
<td>Live Presentations at Fraunhofer ILT</td>
</tr>
<tr>
<td>16:30</td>
<td>Shuttle back to Eurogress</td>
</tr>
<tr>
<td>19:00 - 23:00</td>
<td>Dinner with Presentation of the »Innovation Award Laser Technology 2012« in the Coronation Hall of Aachen’s Town Hall</td>
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</table>

## EU INNOVATION FORUM 2 - Perspectives of Polymer Welding with Lasers (in English)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>11:30</td>
<td>Registration and Light Refreshments</td>
</tr>
<tr>
<td>12:30</td>
<td>Tailored Laser Sources for Polymer Welding&lt;br&gt;Chairman: Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>12:30</td>
<td>POLYBRIGHT Project Overview&lt;br&gt;Extending the Process Limits of Laser Polymer Welding with London High-brilliance Beam Sources&lt;br&gt;Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>13:00</td>
<td>Beam Shaping and Simultaneous Exposure by Diffractive Optical Element in Laser Plastic Welding&lt;br&gt;Dr. Daniel Vogler, Leister Process Technologies AG, Kaegiswil (CH)</td>
</tr>
<tr>
<td>13:30</td>
<td>Advanced Signal Analysis Method to Evaluate the Laser Welding Quality&lt;br&gt;Dr. Giuseppe D’Angelo, Centro Ricerche FIAT, Orbassano (I)</td>
</tr>
<tr>
<td>14:00</td>
<td>High-brilliance Fiber Laser Sources with New NIR Wavelengths&lt;br&gt;Tim Westphäling, IPG Laser GmbH, Burbach (D)</td>
</tr>
<tr>
<td>14:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:00</td>
<td>Process Optimization in Polymer Welding&lt;br&gt;Chairman: Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>15:00</td>
<td>Adapted White Color Formulations for Laser Welding of Whitegood Components&lt;br&gt;Dr. Sibylle Glaser, TREFFERT GmbH &amp; Co. KG, Bingen (D)</td>
</tr>
<tr>
<td>15:30</td>
<td>High Resolution Mask Welding by Well Collimated Beam from Fiber Laser&lt;br&gt;Ulrich Gubler, Leister Process Technologies AG, Kaegiswil (CH)</td>
</tr>
<tr>
<td>16:00</td>
<td>M-shaping of Diode Laser Radiation as a Process Optimization for Polymer Welding Techniques&lt;br&gt;Frauke Legewie, LIMO Lissotschenko Mikrooptik GmbH, Dortmund (D)</td>
</tr>
<tr>
<td>16:30</td>
<td>Panel Discussion</td>
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### EVENING EVENT

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<tr>
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<tbody>
<tr>
<td>19:00 - 23:00</td>
<td>Dinner with Presentation of the »Innovation Award Laser Technology 2012« in the Coronation Hall of Aachen’s Town Hall</td>
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<tr>
<td>doors open 18:30</td>
<td></td>
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</tbody>
</table>

**Ankündigung**

**eu innovation Forum 1 - Laser Additive manufacturing (LAm) in Aeronautics and Power generation**

**eu innovation Forum 2 - Perspectives of Polymer Welding with Lasers**

**New!**

**Wednesday, May 9, 2012**

**Wednesday, May 9, 2012**
**PROGRAM**

**WEDNESDAY, MAY 9, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td><strong>SEMINAR LASER TECHNOLOGY ABC'S</strong></td>
<td><strong>TECHNOLOGY BUSINESS DAY</strong></td>
</tr>
<tr>
<td>from 11:30</td>
<td>Registration and Light Refreshments</td>
</tr>
<tr>
<td>12:30</td>
<td><strong>How does Laser Materials Processing Work?</strong></td>
</tr>
<tr>
<td>Dr. Stefan Kaierle, European Laser Institute ELI / LZH Laser Zentrum Hannover e.V., (D)</td>
<td>Dr. Christoph Ullmann, VDMA / Laserline GmbH, (D)</td>
</tr>
<tr>
<td>13:00</td>
<td><strong>Which Laser for which Application?</strong></td>
</tr>
<tr>
<td>Dr. Alexander Knitsch, TRUMPF Laser- und Systemtechnik GmbH, Ditzingen (D)</td>
<td><strong>The Chinese Laser Market</strong></td>
</tr>
<tr>
<td>13:30</td>
<td><strong>Where is Laser Technology utilized in Industry?</strong></td>
</tr>
<tr>
<td>Markus Rütering, Laserline GmbH, Mülheim-Kärlich (D)</td>
<td><strong>Panel Discussion</strong></td>
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<tr>
<td>14:00</td>
<td><strong>Panel Discussion</strong></td>
</tr>
<tr>
<td>14:30</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td><strong>Seminar Laser Technology ABC's - Part A</strong></td>
<td>for Laser Applications</td>
</tr>
<tr>
<td>Chairman: Dr. Stefan Kaierle, European Laser Institute ELI / LZH Laser Zentrum Hannover e.V., (D)</td>
<td>Chairman: Prof. Peter Loosen, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>Beam Shaping: Which Optics are used in Laser Material Processing?</strong></td>
</tr>
<tr>
<td>Dr. Björn Wedel, HIGHYAG Lasertechnologie GmbH, Berlin (D)</td>
<td>Dr. Martin H. Sommer, SGL CARBON GmbH, Wiesbaden (D)</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>How are Laser Manufacturing Processes Monitored and Controlled?</strong></td>
</tr>
<tr>
<td>Dr. Otto Märtten, PRIMES GmbH, Pfungstadt (D)</td>
<td>Prof. Oliver Kraft, Institut für angewandte Materialien, KIT, Karlsruhe (D)</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>Recent Developments in Laser Technology</strong></td>
</tr>
<tr>
<td>Christian Hinke, PhotonAix e.V., Aachen (D)</td>
<td>Heiko Specht, Heraeus Holding GmbH, Hanau (D)</td>
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<tr>
<td>16:30</td>
<td><strong>Panel Discussion</strong></td>
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**EVENING EVENT**

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<tr>
<td>doors open 18:30</td>
<td>in the Coronation Hall of Aachen’s Town Hall</td>
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**WEDNESDAY, MAY 9, 2012**

<table>
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<tr>
<td><strong>Seminar Laser Technology ABC's - Part B</strong></td>
<td><strong>Seminar Laser Technology ABC's - Part A</strong></td>
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<tr>
<td>Chairman: Dr. Stefan Kaierle, European Laser Institute ELI / LZH Laser Zentrum Hannover e.V., (D)</td>
<td>Chairman: Dr. Stefan Kaierle, European Laser Institute ELI / LZH Laser Zentrum Hannover e.V., (D)</td>
</tr>
<tr>
<td>12:30</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td><strong>Material Trends and Technological Challenges for Laser Applications</strong></td>
<td>for Laser Applications</td>
</tr>
<tr>
<td>Chairman: Prof. Peter Loosen, Fraunhofer ILT, Aachen (D)</td>
<td>Chairman: Prof. Peter Loosen, Fraunhofer ILT, Aachen (D)</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>Carbon for Cutting-edge Technologies</strong></td>
</tr>
<tr>
<td>Dr. Martin H. Sommer, SGL CARBON GmbH, Wiesbaden (D)</td>
<td>Dr. Martin H. Sommer, SGL CARBON GmbH, Wiesbaden (D)</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Material Developments in Micro- and Nano Technology</strong></td>
</tr>
<tr>
<td>Prof. Oliver Kraft, Institut für angewandte Materialien, KIT, Karlsruhe (D)</td>
<td>Prof. Oliver Kraft, Institut für angewandte Materialien, KIT, Karlsruhe (D)</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>Materials for Medical Implants</strong></td>
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<tr>
<td>Heiko Specht, Heraeus Holding GmbH, Hanau (D)</td>
<td>Heiko Specht, Heraeus Holding GmbH, Hanau (D)</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>Panel Discussion</strong></td>
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</table>
Focus Seminar - Foundations and New Developments in Ultrashort Pulse Laser Technology

Ultrashort pulsed lasers (USP) with pulse durations in the ps and fs range have been described by many as the tool of the future wherever high precision plays an essential role. Such applications range from drilling of nozzles and the manufacture of tools via structuring solar cells and the manufacture of medical-technical components all the way to printing technology and the processing of fiber-composite components in lightweight construction. And with the highest quality.

FOCUS SEMINAR - Foundations and New Developments in Ultrashort Pulse Laser Technology

from 11:30 Registration and Light Refreshments

Basics and New Developments in Ultrashort Pulse Laser Technology
Chairman: Dr. Arnold Gillner, Fraunhofer ILT, Aachen (D)

12:30 Basics in Ultrashort Pulse Laser Technology
Dr. Uwe Stute, LZH Laser Zentrum Hannover e.V., Hannover (D)

13:00 Ultrafast Laser Processing Using Polygon Scanner Technology
Ronny De Loor, NextScan Technology, Silvolde (NL)

13:30 Micromachining with sub-ns Lasers: results and progress in health science and industrial applications
Dr. Antoine Kevorkian / Rainer Höreth, Teem Photonics S.A., Fachingen (D)

14:00 Micro Structuring with Ultra Short Pulse - Ways to Optimize Process Efficiency and Quality
Prof. Beat Neuenschwander, Institute for Applied Laser Photonics & Surface Technologies, Bern (CH)

14:30 Coffee Break

Evening Event

19:00 - 23:00 Dinner with Presentation of the »Innovation Award Laser Technology 2012« in the Coronation Hall of Aachen’s Town Hall
Laser Technology Conference AKL’12
Over 70 experts from research and industry will bring you up to date on the current trends in laser technology. In particular, practitioners and strategists from the automotive industry, the aviation and machine construction, electronic and solar technology as well as medical technology can obtain new ideas for their individual applications through practical examples. In professional lectures and discussion forums or at the live demonstrations, experience what is current and relevant for the future in laser technology.

MAIN TOPICS

Gerd Herziger Session
- Laser Solutions for the Industrial Challenges of the 21st Century

Laser Beam Sources
- Solid State and Fiber Lasers
- Ultrashort Pulsed Lasers
- Frequency-doubled Lasers
- Diode Lasers

Laser Manufacturing Processes in Macro Areas
- Laser Welding and Laser Cutting
- Process Monitoring in Laser Material Processing
- Additive Laser Manufacturing Processes

Laser Manufacturing Processes in Micro Areas
- Micro- and Nanostructuring
- Polishing and Thin Film Processes
- Micro Joining
- Micro Drilling

Laser Technology Live
Over 70 Live presentations will take place at Fraunhofer Institute for Laser Technology ILT and companies of the Application Center.
程 序

14:30 Progress in Laser Welding of Copper
Dr. Dirk Herrmann, Wieland-Werke AG, Ulm (D)

15:00 Application of Laser Technologies in the Process Chain of Hot Forming and the Subsequent Processing
Stefan Wischmann, ThyssenKrupp Steel Europe, Duisburg (D)

15:30 High Power Laser Applications in Mitsubishi Heavy Industries
Dr. Takashi Ishide, Mitsubishi Heavy Industries, Ltd., Hyogo (J)

16:00 Coffee Break - Visit of the Sponsors Exhibition

17:00 A commercial and Technical comparison of fiber Laser and co2 Laser cutting Machines
Dr. John Powell / Prof. Alexander Kaplan, Lulea University of Technology, Lulea (S)

17:30 Laser Applications in Manufacturing of High Strength Body Parts
Dr. Steffen Kulp, Volkswagen AG, Wolfsburg (D)

18:00 Precision Cutting Advances by Laser MicroJet
Dr. Bernold Richerzhagen, SYNOVA S.A., Ecublens (CH)

18:30 End of Sessions

19:30 Get-Together
at »Ludwig Forum for International Art«
PROGRAM

SESSIONS 1 - 3 PARALLEL

FRIDAY, MAY 11, 2012

1 Session 1: Laser Material Processing - Macro

from 08:00 Registration and Coffee Reception

08:30 Laser Additive Manufacturing
Chairman: Dr. Konrad Wissenbach, Fraunhofer ILT, Aachen (D)

09:00 Aero Engine Parts Made of SLM - Status Quo and Future Potential
Thomas Heß, MTU Aero Engines GmbH, München (D)

09:30 Development of Laser Additive Repair Technologies for Compressor B Unreal Materials
Ian Michtell, Rolls Royce plc, Derby (UK)

10:00 Coffee Break - Visit of the Sponsors Exhibition

10:30 Process Control in Laser Manufacturing
Chairman: Peter Abels, Fraunhofer ILT, Aachen (D)

11:00 Industrial Application of Quality Control in Laser Materials Processing: From Lab to Serial Production
Dr. Markus Kogel-Hollacher, PRECItec Optronik GmbH, Rodgau (D)

11:30 Quality Assurance of Laser-Welded Automotive Seat Structures
Dr. Geert Verhaeghe, Faurecia Autositze GmbH & Co.KG, Stadthagen (D)

12:00 Process Monitoring in Large Scale Production
Eckhard Lessmüller / Christian Truckenbrodt, Lessmüller Lasertechnik GmbH, München (D)

12:30 Outlook
Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)

FRIDAY, MAY 11, 2012

2 Session 2: Laser Material Processing - Micro

Micro Joining
Chairman: Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)

08:30 Laser Micro Joining - Processes and Applications in Research and Development
Felix Schmitt, Fraunhofer ILT, Aachen (D)

09:00 Laser Soldering in Photovoltaic Production - Non-contact Controlled Soldering Technology
Thomas Fischer, teamtechnik Maschinen und Anlagen GmbH, Freiberg (D)

09:30 Laser Micro Welding - Research and Industrial Applications
Dr. Henning Hanebuth, Siemens AG, Munich (D)

10:00 Coffee Break - Visit of the Sponsors Exhibition

10:30 Modeling and Simulation for Laser drilling
Urs Eppelt, Fraunhofer ILT, Aachen (D)

11:00 Micro Drilling
Chairwoman: Claudia Anna Hartmann, Fraunhofer ILT, Aachen (D)

11:30 Micro Drilling with Fiber Lasers
Noémie Dury, ROFIN-LASAG AG, Thun (CH)

12:00 Trepanning Optics for Industrial Laser Micro Machining
Florian Lendner, GFH GmbH, Deggendorf (D)

12:30 Outlook
Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)

FRIDAY, MAY 11, 2012

3 Session 3 - Laser Sources

Frequency Converted Lasers
Chairman: Dr. Bernd Jungbluth, Fraunhofer ILT, Aachen (D)

08:30 High Power Thin-Disc Lasers with CW Emission in the Green Spectral Range
Dr. Ivo Zawischa, TRUMPF Laser- und Systemtechnik GmbH, Ditzingen (D)

09:00 Frequency Converted Short-pulse Lasers and Ultrashort Pulse Lasers with High Output Power
Dr. Keming Du, Edgewave GmbH, Würselen (D)

09:30 Highly Reliable UV-lasers with Picosecond Pulses
Dr. Günter Hollemann, Coherent GmbH, Lübeck (D)

10:00 Coffee Break - Visit of the Sponsors Exhibition

10:30 Cost Efficient Diode Laser Modules of Highest Output Power Delivered by a 100 µm Fiber
Dr. Martin Leitner, JENOPTIK Laser GmbH, Jena (D)

11:00 High Power Vertical Cavity Surface Emitting Lasers for Thermal Processing and Pumping of Solid State Lasers
Dr. Holger Mönch, Philips Research Laboratories, Aachen (D)

11:30 High Brightness Diode Laser Series Based on Modular and Automated Platform
Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)

12:00 Outlook
Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)

13:30 Shuttle to Fraunhofer ILT (till 13:45 h)

14:30 Lunch at Fraunhofer ILT (till 14:45 h)

LASER TECHNOLOGY LIVE

The laser infrastructure of the Fraunhofer ILT sets international standards. Researchers of the Fraunhofer ILT and Chairs of the RWTH Aachen University will demonstrate on the premise the newest laser technology developments of their applied research.

from 13:00 Shuttle to Fraunhofer ILT (till 13:45 h)

14:30 - 17:30 Laser Technology Live at Fraunhofer ILT

15:00 - 18:00 Shuttle to Eurogress

You may find a list of the actual presentations on our web site: www.lasercongress.org
**EU Innovation Forums**
- **Forum 1** - Laser Additive Manufacturing (LAM) in Aeronautics and Power Generation  
  Wednesday, May 9, 2012, 09:00 h - 17:00 h  
  On-site Check In: Eurogress Main Entrance  
  Registration from 08:30 h
- **Forum 2** - Perspectives of Polymer Welding with Lasers  
  Wednesday, May 9, 2012, 12:30 h - 17:00 h  
  On-site Check In: Eurogress Main Entrance  
  Registration from 11:30 h

**Seminar Laser Technology ABC’s**
Wednesday, May 9, 2012, 12:30 h - 17:00 h  
Pullman Quellenhof, Monheimsallee 52, 52062 Aachen  
On-site Check In: Eurogress Main Entrance  
Registration from 11:30 h

**Technology Business Day**
Wednesday, May 9, 2012, 12:30 h - 17:00 h  
On-site Check In: Eurogress Main Entrance  
Registration from 11:30 h

**Focus Seminar USP-Technology**
Wednesday, May 9, 2012, 12:30 h - 17:00 h  
On-site Check In: Eurogress Main Entrance  
Registration from 11:30 h

**AKL’12 - Laser Technology Conference**
Thursday, May 10, 2012, 08:30 h - 18:30 h  
Friday, May 11, 2012, 08:30 h - 13:00 h  
Eurogress Aachen, Monheimsallee 48, 52062 Aachen  
On-site Check In: Eurogress Main Entrance  
Registration May 10/11, 2012 from 8:00 h

**Laser Technology Live**
Friday, May 11, 2012 from 14:30 h to 17:30 h  
Fraunhofer Institute for Laser Technology ILT  
Steinbachstraße 15, 52074 Aachen  
Shuttle between Eurogress and Fraunhofer ILT  
13:00 h - 13:45 h and 15:00 h - 18:00 h

**AKL Sponsors Exhibition**
Thursday, May 10, 2012, 10:00 h - 18:00 h  
Friday, May 11, 2012, 10:00 h - 13:00 h  
Foyer Europa- and Brussels Hall at the Eurogress

**Awards Ceremony with Dinner**
Registration necessary (fee required)  
Wednesday, May 9, 2012  
19:00 h - 23:00 h Uhr (doors open 18:30 h)  
Coronation Hall / Town Hall, Markt, 52062 Aachen

**Get-Together**
Thursday, May 10, 2012  
20:00 h - 23:30 h (doors open 19:30 h)  
Ludwig Forum for International Art  
Jülicher Straße 97-109, 52070 Aachen

**Parking Garages**
near the conference locations:  
- Pullman/Eurogress: Parking Garage Eurogress, Monheimsallee  
- Ludwig Forum: Parking at the Museum, Lombardenstraße  
- Coronation Hall / Town Hall: Parking Garages Mostardstraße and Büchel

For further information regarding parking possibilities in Aachen please visit: [www.apaq.de](http://www.apaq.de)
Early Bird Registration!
Special discounted registration fees until March 23, 2012.

Participation Conditions
The registration fee includes conference proceedings, lunch or light refreshments, coffee breaks on the booked conference day, the participation in the Get-Together on May 10, 2012 at Ludwig Forum for International Art as well as the shuttle service to the Live Presentations of the Fraunhofer ILT.

Please be aware of the special discounted registration fees for Early Bird Registration by March 23, 2012.

For the Awards Ceremony with presentation of the »Innovation Award Laser Technology« on May 9, 2012 a separate registration (fee required) is necessary.

May 9, 2012 - Seminar Laser Technology ABC’s
• 210,- EUR / 189,- EUR (Early Bird Registration)
• 168,- EUR (reduced*)

May 9, 2012 - Technology Business Day
• 300,- EUR / 270,- EUR (Early Bird Registration)
• 240,- EUR (reduced*)

May 9, 2012 - EU Innovation Forum 1 - LAM
• 300,- EUR / 270,- EUR (Early Bird Registration)
• 240,- EUR (reduced*)

May 9, 2012 - EU Innovation Forum 2 - Polymer
• 280,- EUR / 252,- EUR (Early Bird Registration)
• 224,- EUR (reduced*)

May 9, 2012 - Focus Seminar USP-Technology
• 280,- EUR / 252,- EUR (Early Bird Registration)
• 224,- EUR (reduced*)

May 10, 2012 - AKL’12 Conference (Part 1)
• 520,- EUR / 468,- EUR (Early Bird Registration)
• 416,- EUR (reduced*)

May 11, 2012 - AKL’12 Conference (Part 2)
• 470,- EUR / 423,- EUR (Early Bird Registration)
• 376,- EUR (reduced*)

* Reduced registration fee for members of AKL e.V., ELI, PhotonAix e.V. and Public Research Institutes till March 23, 2012 the latest.

Social Program
• Evening Event on May 9, 2012 with dinner and presentation of the »Innovation Award Laser Technology«
  60,- EUR/Person
  60,- EUR/Accompanying Person
• Get-Together on May 10, 2012
  60,- EUR/Accompanying Person

Registration
Please use the registration form in the internet www.lasercongress.org. Please be aware of the special discounted registration fees for Early Bird Registration by March 23, 2012. Upon receipt of your application you will receive a confirmation of your attendance as well as an invoice, which can be paid by credit card (VISA, Mastercard) or bank transfer.

Registration Deadline April 30, 2012.

Program subject to minor changes.
Early Bird Registration!
Special discounted registration fees until March 23, 2012.

Registration On-site
On-site registration you will receive your name badge, the conference proceedings as well as the admission ticket for the booked evening event. Please wear your badge to all conference sessions and events.

Cancellations
Cancellations of participation at the conference are generally asked to be made in writing. In case of cancellation before March 30, 2012 the fee will be refunded less 60,- EUR handling charges. For cancellations received after March 30, 2012 the full fee will be charged. In this case the conference proceedings will be send to you. We also welcome a substitute participant instead.

Organization
Fraunhofer Institute for Laser Technology ILT
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Hotel and Arrival
A certain contingent of hotel rooms with special negotiated prices have been reserved for the participants of AKL’12 valid for bookings from May 8 - 12, 2012. We strongly suggest to make your reservations early in one of the following hotels:

- Pullman Quellenhof Aachen *****
- Novotel Aachen City ****
- Aquis Grana - City Hotel ***
- Mercure am Dom ***
- Ibis Aachen Marschiertor **
- Hotel Lousberg Aachen **

For further information please visit: www.lasercongress.org.

Conference Locations

[Map of Aachen showing conference locations]
Organization
Fraunhofer Institute for Laser Technology ILT
Steinbachstraße 15
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Supporting Organizations
• 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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