











AKL - INTERNATIONAL LASER TECHNOLOGY CONGRESS

MAY 9 -11, 2012 IN AACHEN



SPONSORS AKL'12

Are you interested in a sponsorship of the AKL'12? Contact: akl@lasercongress.org

STATUS: NOVEMBER 2011































































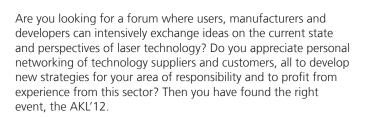












For the ninth time, laser manufacturers and laser users from various branches will meet at the biannual International Laser Technology Congress AKL. Featuring over 500 participants, around 70 speakers and over 30 sponsors, the AKL has established itself as the leading forum for applied laser technology 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!

Perihat Jossaur

Prof. Dr. rer. nat. Reinhart Poprawe M.A. Director of the Fraunhofer Institute for Laser Technology ILT

NETWORKINGIN AACHEN



AKL'12 - INFORMATION, INSPIRATION, NETWORKING

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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.

PROGRAM MAY 9 - 11, 2012

PROGRAM

WEDNESDAY, MAY 9, 2012

in the Coronation Hall of Aachen's Town Hall

WEDNESDAY, MAY 9, 2012

EU INNOVATION FORUM 1 - Laser Additive Manufacturing (LAM) in Aeronautics and Power Generation (in English)		EU INNOVATION FORUM 2 - Perspectives of Polymer Welding with Lasers (in English)		
from 08:30	Registration and Coffee Reception	from 11:30	Registration and Light Refreshments	
9:00	Welcome Chairman: Dr. Ingomar Kelbassa, Fraunhofer ILT, Aachen (D)		Tailored Laser Sources for Polymer Welding Chairman: Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)	
9:15	Opening Speech Tiit Jürimäe, Director Unit Aeronautics, EU Commission	12:30	POLYBRIGHT Project Overview Extending the Process Limits of Laser Polymer Welding	
9:30	EU Project MERLIN Needs and Demands for the Manufacture of Next		with London High-brilliance Beam Sources Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)	
0.45	Generation Jet Engine Components - Market Pull Dr. Jeffrey Allen, Rolls Royce plc., Derby (UK)	13:00	Beam Shaping and Simultaneous Exposure by Diffractive Optical Element in Laser Plastic Welding	
9:45	Laser Additive Manufacturing as a Key Enabler for the Manufacture of Next Generation Jet Engine Components - Technology Push	13:30	Daniel Vogler, Leister Process Technologies, Kaegiswil (CH) Advanced Signal Analysis Method to Evaluate the Laser Welding Quality	
10:00	Dr. Carl Hauser, TWI Technology Centre (Yorkshire) Ltd, Rotherham (UK) Additive Manufacturing of Turbine Engine Parts by Selective Laser Melting	14:00	Dr. Giuseppe D'Angelo, Centro Ricerche FIAT, Orbassano (I) High-brilliance Fiber Laser Sources with New NIR Wavelengths	
10:15	Dr. Wilhelm Meiners, Fraunhofer ILT, Aachen (D) Panel Discussion		Tim Westphäling, IPG Laser GmbH, Burbach (D)	
10:30	Coffee Break	14:30	Coffee Break	
11:00	Innovation Impact of LAM Additive Manufacturing in Turbo-Engine Applications		Process Optimization in Polymer Welding Chairman: Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)	
11:30	Dr. Andres Gasser, Fraunhofer ILT, Aachen (D) Laser Metal Deposition for Maintenance, Repair	15:00	Adapted White Color Formulations for Laser Welding of Whitegood Components	
	and Overhaul at Siemens Power Generation Dr. Dimitrios Thomaidis, Siemens AG, Energy Sector Fossil Power Generation Division, Berlin (D)	15:30	Dr. Sibylle Glaser, TREFFERT GmbH & Co. KG, Bingen (D) High Resolution Mask Welding by Well Collimated Beam from Fiber Laser	
12:00	Laser Based MRO of Compressor and Steam Turbine Components at MAN Diesel & Turbo SE Christoph Korbmacher, MAN Diesel & Turbo SE, Oberhausen (D)	16:00	Ulrich Gubler, Leister Process Technologies, Kaegiswil (CH) M-shaping of Diode Laser Radiation as a Process Optimization for Polymer Welding Techniques	
12:30	Lunch	16:30	Frauke Legewie, LIMO Lissotschenko Mikrooptik GmbH, Dortmund (D) Panel Discussion	
14:00 14:30	Shuttle from Eurogress to Fraunhofer ILT Live Presentations at Fraunhofer ILT	EVENING EVENT		
16:30	Shuttle back to Eurogress			
doors open 18:30	Dinner with Presentation of the »Innovation Award Laser Technology 2012«		Dinner with Presentation of the »Innovation Award Laser Technology 2012« in the Coronation Hall of Aachen's Town Hall	



WEDNESDAY, MAY 9, 2012

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from 11:30	Registration and Light Refreshments		
	Seminar Laser Technology ABC's - Part A		
	Chairman: Dr. Stefan Kaierle, European Laser Institute ELI /		
	LZH Laser Zentrum Hannover e.V., (D)		
2:30	How does Laser Materials Processing Work?		
	Dr. Stefan Kaierle, European Laser Institute ELI /		
	LZH Laser Zentrum Hannover e.V., (D)		
13:00	Which Laser for which Application?		
	Dr. Alexander Knitsch, TRUMPF Laser-		
13:30	und Systemtechnik GmbH, Ditzingen (D) Where is Laser Technology utilized in Industry?		
13:30	Markus Rütering, Laserline GmbH, Mülheim-Kärlich (D)		
14:00	Panel Discussion		
	- 		
14:30	Coffee Break		
	Seminar Laser Technology ABC's - Part B		
	Chairman: Dr. Stefan Kaierle, European Laser Institute ELI /		
	LZH Laser Zentrum Hannover e.V., (D)		
15:00	Beam Shaping: Which Optics are used		
	in Laser Material Processing?		
	Dr. Björn Wedel, HIGHYAG Lasertechnologie GmbH, Berlin (D)		
15:30	How are Laser Manufacturing Processes		
	Monitored and Controlled?		
16.00	Dr. Otto Märten, PRIMES GmbH, Pfungstadt (D)		
16:00	Recent Developments in Laser Technology Christian Hinke, PhotonAix e.V., Aachen (D)		
16:30	Panel Discussion		

19:00 - 23:00 Dinner with Presentation of the »Innovation Award

TECHNOLOGY BUSINESS DAY

	Lasermarkets in Europe, USA and China Chairman: Prof. Peter Loosen, Fraunhofer ILT, Aachen (D)		
12:30	Worldwide and European Laser Markets Dr. Christoph Ullmann, VDMA / Laserline GmbH, (D)		
13:00	Laser Markets in USA David A. Belforte, Belforte Associates, Sturbridge (USA)		
13:30	Laser Markets in China Günther Weinmann, TRUMPF China Co. Ltd., Shanghai (CN)		
14:00	Panel Discussion		
14:30	Coffee Break		
***************************************	Material Trends and Technological Challenges for Laser Applications		
	Chairman: Prof. Peter Loosen, Fraunhofer ILT, Aachen (D)		
15:00	Carbon for Cutting-edge Technologies Dr. Martin H. Sommer, SGL CARBON GmbH, Wiesbaden (D)		
15:30	Material Developments in Micro- and Nano Technology Prof. Oliver Kraft, Institut für angewandte Materialien, KIT, Karlsruhe (D)		
16:00	Materials for Medical Implants Heiko Specht, Heraeus Holding GmbH, Hanau (D)		

19:00 - 23:00 Dinner with Presentation of the »Innovation Award

in the Coronation Hall of Aachen's Town Hall

doors open 18:30 Laser Technology 2012«



WEDNESDAY, MAY 9, 2012

WEDNESDAY, MAY 9, 2012

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 Stucturing 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			

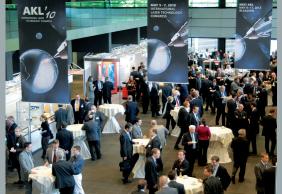
	Basics and New Developments in Ultrashort Pulse
	Laser Technology Chairman: Dr. Arnold Gillner, Fraunhofer ILT, Aachen (D) Results Presentation of the BMBF joint project PIKOFLAT
15:00	High Power Picosecond Lasers for Micro Machining Dr. Ralf Knappe, Lumera Laser GmbH, Kaiserslautern (D)
15:25	Process Development for High-Power Laser Ablation
	Stephan Eifel, Fraunhofer ILT, Aachen (D)
15:45	Machine Development for the Laser Machining
	with Ultrashort Pulsed Lasers
	Michael Kuhl, SAUER GmbH Lasertec, Pfronten (D)
16:05	3D-micro-structuring of Embossing Cylinders
	with Ultrashort Pulse Lasers
	Stephan Brüning, Schepers GmbH & Co. KG, Vreden (D)
16:25	Amplification of Ultrashort Pulses by Innoslab Technology
	Dr. Keming Du, EdgeWave GmbH, Würselen (D)

EVENING EVENT

NEW!

19:00 - 23:00 Dinner with Presentation of the »Innovation Award doors open 18:30 Laser Technology 2012«

in the Coronation Hall of Aachen's Town Hall





THURSDAY, MAY 10, 2012

THURSDAY, MAY 10, 2012

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.

AKL'12 - LASER TECHNOLOGY CONFERENCE

from 08:00	Registration and Coffee Reception
8:30	Welcome Chairman: Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)
8:40	Opening Speech Svenja Schulze - Ministry of Innovation, Science and Research
9:00	Challenges and Perspectives of Production Technology in the Automotive Industry
9:30	Dr. Dieter Steegmüller, Daimler AG, Stuttgart (D) The Societal of Laser Technology: Trends and Perspectives Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)
10:00	Coffee Break - Visit of the Sponsors Exhibition
	Gerd Herziger Session - Laser Solutions for Industrial Challenges of the 21st Century Chairman: Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)
11:00	Dr. Michael Mertin Jenoptik AG, Jena (D)
11:30	Dr. Christian Schmitz TRUMPF Laser- und Systemtechnik GmbH, Ditzingen (D)
12:00	Thorsten Frauenpreiß ROFIN-SINAR Laser GmbH, Hamburg (D)
12:30	Dr. Lutz Aschke LIMO Lissotschenko Mikrooptik GmbH, Dortmund (D)
13:00	Lunch - Visit of the Sponsors Exhibition

SESSIONS 1 - 3 PARALLEL

Get-Together at »Ludwig Forum for International Art«

20:00Open doors 19:30

THURSDAY, MAY 10, 2012 THURSDAY, MAY 10, 2012 THURSDAY, MAY 10, 2012

	Session 1: Laser Material Processing - Macro		Session 2: Laser Material Processing - Micro		3 Session 3 - Laser Sources
	Welding Chairman: Dr. Dirk Petring, Fraunhofer ILT, Aachen (D)		Micro- and Nano Structuring Chairman: Dr. Jens Holtkamp, Fraunhofer ILT, Aachen (D)		Solid State and Fiber Lasers Chairman: Hans-Dieter Hoffmann, Fraunhofer ILT, Aachen (I
14:30	Progress in Laser Welding of Copper	14:30	Precision Laser Micromachining - The Balance	14:30	High-Performance Fiber Lasers
15:00	Dr. Dirk Herrmann, Wieland-Werke AG, Ulm (D) Application of Laser Technologies in the Process Chain		between Speed and Quality Nadeem Rizvi, Laser Micromachining Ltd., Denbighshire (UK)	15:00	Dr. Stefan Ruppik, ROFIN-SINAR Laser GmbH, Hamburg (Fiber Lasers based on Beam Quality Converters
13.00	of Hot Forming and the Subsequent Processing	15:00	Application Development for Micromachining and	13.00	for Diode Lasers
	Stefan Wischmann, ThyssenKrupp Steel Europe, Duisburg (D)	.5.00	Surface Texturing Using Ultrashort Pulsed Lasers		Volker Krause, Laserline GmbH, Mülheim (D)
15:30	High Power Laser Applications in Mitsubishi		Max Groenendijk, Lightmotif B.V., Enschede (NL)	15:30	Micro Lasers, Inherent Benefits and Limitations
	Heavy Industries	15:30	Laser in the Thin Film Photovoltaics		Dr. Stefan Spiekermann, InnoLight GmbH, Hannover (D)
	Dr. Takashi Ishide, Mitsubishi Heavy Industries, Ltd., Hyogo (J)		Dr. Marco Lentjes, 4JET Technologies GmbH, Alsdorf (D)	16:00	Coffee Busely Minist of the Commence Fushibition
16:00	Coffee Break - Visit of the Sponsors Exhibition	16:00	Coffee Break - Visit of the Sponsors Exhibition	16:00	Coffee Break - Visit of the Sponsors Exhibition
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	Session 1: Laser Material Processing - Macro		2 Session 2: Laser Material Processing - Micro		Ultrafast Lasers
	Cutting		Polishing and Thin Film Processing		Chairman: Dr. Peter Rußbüldt, Fraunhofer ILT, Aachen (D
	Chairman: Prof. Wolfgang Schulz, Fraunhofer ILT, Aachen (D)		Chairman: Dr. Jochen Stollenwerk, Fraunhofer ILT, Aachen (D)		enannan 211 reter nassarat, naamore 121, naemen (e
	• •			17:00	Ultrafast Lasers with Highest Average Ouput Powe
17:00	A Commercial and Technical Comparison of Fiber Laser	17:00	Overview on Laser Polishing and Thin Film Processing		Dr. Torsten Mans, AMPHOS GmbH, Aachen (D)
	and CO ₂ Laser Cutting Machines	47.00	Dr. Edgar Willenborg, Fraunhofer ILT, Aachen (D)	17:30	Ultrafast Disk Lasers
	Dr. John Powell / Prof. Alexander Kaplan, Lulea University of Technology, Lulea (S)	17:30	Machine Tool for Laser Polishing Thomas Arnold, K.H. Arnold GmbH & Co. KG, Ravensburg (D)		Dr. Dirk Sutter, TRUMPF Laser GmbH + Co. KG, Schramberg (D)
17:30	Laser Applications in Manufacturing	18:00	Laser Based Manufacturing of Coatings	18:00	fs Solid State and Fiber Lasers
17.50	of High Strength Body Parts	10.00	for Automotive Applications	10.00	Clemens Hönninger, Amplitude Systèmes, Pessac (F)
	Dr. Steffen Kulp, Volkswagen AG, Wolfsburg (D)		Jürgen Windrich, Schaeffler KG, Herzogenaurach (D)		J., p,,,
18:00	Precision Cutting Advances by Laser Micro Jet			18:30	End of Sessions
	Dr. Bernold Richerzhagen, SYNOVA S.A., Ecublens (CH)	18:30	End of Sessions	***************************************	
18:30	End of Sessions		EVENING EVENT		EVENING EVENT
10.30	Elia di Sessidis		EVENING EVENT	20:00	Get-Together
	EVENING EVENT	20:00	Get-Together	Open doors 19:30	at »Ludwig Forum for International Art«
		Open doors 19:30	at »Ludwig Forum for International Art«	-p-:: -3013 13.30	21 _22g . 2 221100101017.00



15:00 - 18:00

Shuttle to Eurogress

You may find a list of the actual presentations

on our web site: www.lasercongress.org



SESSIONS 1 - 3 PARALLEL

Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D)

FRIDAY, MAY 11, 2012 **AKL'12 - LASER TECHNOLOGY CONFERENCE 3** Session 3 - Laser Sources 2 Session 2: Laser Material Processing - Micro from 08:00 **Registration and Coffee Reception** Micro Joining **Frequency Converted Lasers** Chairman: Dr. Alexander Olowinsky, Fraunhofer ILT, Chairman: Dr. Bernd Jungbluth, Fraunhofer ILT, Aachen (D) 1 Session 1: Laser Material Processing - Macro Aachen (D) 08:30 High Power Thin-Disc Lasers with CW Emission 08:30 Laser Micro Joining - Processes and Applications in the Green Spectral Range Laser Additive Manufacturing Chairman: Dr. Konrad Wissenbach, Fraunhofer ILT, Aachen (D) in Research and Development Dr. Ivo Zawischa, TRUMPF Laser- und Systemtechnik Felix Schmitt, Fraunhofer ILT, Aachen (D) GmbH, Ditzingen (D) Additive Manufacturing for Series Production 09:00 Laser Soldering in Photovoltaic Production -09:00 Frequency Converted Short-pulse Lasers and 08:30 Non-contact Controlled Soldering Technology Ultrashort Pulse Lasers with High Output Power of the Future? Dr. Wilhelm Meiners, Fraunhofer ILT, Aachen (D) Thomas Fischer, teamtechnik Maschinen und Dr. Keming Du, EdgeWave GmbH, Würselen (D) Aero Engine Parts Made of SLM - Status Ouo Anlagen GmbH, Freiberg (D) 09:30 Highly Reliable UV-lasers with Picosecond Pulses 09:00 Laser Micro Welding - Research and Industrial Dr. Günter Hollemann, Coherent GmbH, Lübeck (D) and Future Potential 09:30 Applications Thomas Heß, MTU Aero Engines GmbH, München (D) Dr. Henning Hanebuth, Siemens AG, Munich (D) 10:00 Coffee Break - Visit of the Sponsors Exhibition 09:30 Manufacturing and Repair Applications of Additive **Manufacturing Methods for Aeroengine Components** Dr. Thomas Haubold, Rolls-Royce Deutschland Ltd. & Co. KG, 10:00 Coffee Break - Visit of the Sponsors Exhibition **3** Session 3 - Laser Sources Oberursel (D) 2 Session 2: Laser Material Processing - Micro **Diode Lasers** 10:00 Coffee Break - Visit of the Sponsors Exhibition Chairman: Martin Traub, Fraunhofer ILT, Aachen (D) Micro Drilling 1 Session 1: Laser Material Processing - Macro Chairwoman: Claudia Anna Hartmann, Fraunhofer ILT. 11:00 Cost Efficient Diode Laser Modules of Highest Output Power Delivered by a 100 µm Fiber Aachen (D) Dr. Martin Leitner, JENOPTIK Laser GmbH, Jena (D) **Process Control in Laser Manufacturing** 11:00 Modeling and Simulation for Laser Drilling 11:30 High Power Vertical Cavity Surface Emitting Lasers for Chairman: Dr. Stefan Kaierle, LZH Laser Zentrum Urs Eppelt, Fraunhofer ILT, Aachen (D) Thermal Processing and Pumping of Solid State Lasers Hannover e.V., Hannover (D) 11:30 Micro Drilling with Fiber Lasers Dr. Holger Mönch, Philips Research Laboratories, Aachen (D) 11:00 **Industrial Application of Quality Control in Laser** Noémie Dury, ROFIN-LASAG AG, Thun (CH) 12:00 High Brightness Diode Laser Series Based on Modular Materials Processing: From Lab to Serial Production 12:00 Laser Processing for MWT/EWT Solar Cells and Automated Platform Dr. Markus Kogel-Hollacher, PRECITEC Optronik GmbH, Andreas Büchel, JENOPTIK Automatisierungstechnik GmbH Dr. Jens Biesenbach, DILAS Diodenlaser GmbH, Mainz (D) 12:30 12:30 11:30 **Quality Assurance of Laser-Welded Automotive** Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D) Prof. Reinhart Poprawe, Fraunhofer ILT, Aachen (D) **Seat Structures** Dr. Geert Verhaeghe, Faurecia Autositze GmbH & Co.KG, from 13:00 **Shuttle to Fraunhofer ILT** (till 13:45 h) 13:45 **Lunch at Fraunhofer ILT** (till 14:45 h) Stadthagen (D) **Process Monitoring in Large Scale Production** 12:00 Eckhard Lessmüller / Christian Truckenbrodt, LASER TECHNOLOGY LIVE Lessmüller Lasertechnik GmbH. München (D) 12:30 Outlook 14:30 - 17:30 Laser Technology Live at Fraunhofer ILT

The laser infrastructure of the Fraunhofer ILT sets international standards.

of their applied research.

Researchers of the Fraunhofer ILT and Chairs of the RWTH Aachen University will demonstrate on the premise the newest laser technology developments

GENERAL INFORMATION

On-site Check In: Eurogress Main Entrance Monheimsallee 48, 52062 Aachen



LOCATIONS AND OPENING HOURS

EU Innovation Forums

- Forum 1 Laser Additive Manufacturing (LAM) in Aeronautics and Power Generation Wednesday, May 9, 2012, 09:00 h 17:00 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 08:30 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

WWW.LASERCONGRESS.ORG

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.apag.de

GENERAL INFORMATION

Early Bird Registration!

Special discounted registration fees until March 23, 2012.

INFO

PARTICIPATION CONDITIONS

Patricipation 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*)

WWW.LASERCONGRESS.ORG

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 »Inovation 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.

GENERAL INFORMATION

Early Bird Registration!

Special discounted registration fees until March 23, 2012.

INFO

PARTICIPATION CONDITIONS

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 ask 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 Steinbachstraße 15 52074 Aachen, Germany www.ilt.fraunhofer.de Phone +49 241 8906-0 Fax +49 241 8906-121

Service-Hotline AKL'12

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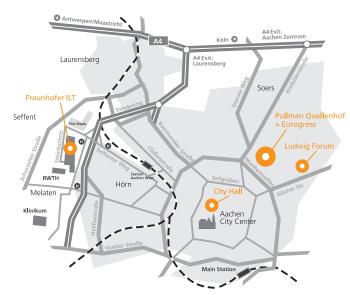
Hotel and Arrival

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 Ouellenhof Aachen *****
- Novotel Aachen City ****
- Aguis Grana City Hotel ***
- Mercure am Dom ***
- Ibis Aachen Marschiertor **
- Hotel Lousberg Aachen **

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Conference Locations



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Supporting Organizations

- Arbeitskreis Lasertechnk 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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