

FACTS AND FIGURES

AKL'22 - International Laser Technology Congress May 4–6, 2022, Aachen, Germany

Contact

akl@lasercongress.org www.lasercongress.org/en

LOCATION	Eurogress Aachen, Monheimsallee 48, 52062 Aachen, Germany, www.eurogress-aachen.de/en			
ORGANIZATION	Fraunhofer Institute for Laser Technology ILT			
	Steinbachstraße 15, 52074 Aachen, Germany			
	Phone +49 241 8906-0			
	www.ilt.fraunhofer.de/en			
	www.lasercongress.org/en			
PARTICIPANTS	Over 500 Participants (as of May 2, 2022)			
LECTURES	85 speakers and 15 chairmen			

CONFERENCE STRUCTURE

Wedneso	lay,	May	4,	2022
---------	------	-----	----	------

- Seminar Laser Technology ABC's
- Technology Business Day
- Forum Quantum Technology & PhotonicsForum Process Control & Digitization
- Forum Laser Additive Manufacturing
- Dinner with Presentation of the Innovation Award Laser Technology
- Accompanying Sponsors' Exhibition

Thursday, May 5, 2022

- AKL'22 Laser Technology Conference
- Accompanying Sponsors' Exhibition
- "Laser Technology Live" at Fraunhofer ILT with opening of the Hydrogen Lab
- AKL'22 Networking with Snacks at the Eurogress Conference Center

Friday, May 6, 2022

- AKL'22 Laser Technology Conference
- Accompanying Sponsors' Exhibition

CHOICE OF TOPICS: May 4, 2022

Seminar Laser Technology ABC's

- Basics of Laser Applications
- Overview and Applications of High Power Lasers
- Modern Scanning Systems for Laser Machining
- Intelligent Quality Assurance
- Radiation Safety Aspects
- Future Trends in Laser Technology

Technology Business Day

- International Laser Market in Europe, America and Asia
- Trends of Laser Processing in Microelectronic, Automotive Industry and Additive Manufacturing
- Challenges and Opportunities of Industrial Laser Processes

Forum Quantum Technology & Photonics

- Introduction, Challenges and Application of Quantum Computing
- Quantum-Save Encryption and Quantum Light for Inline Process Monitoring
- Quantum and Photonics

Forum Process Control & Digitization

- Process Monitoring and Control in Laser Welding with Robotic Guidance
- Al-supported Quality Inspection in Laser Material Processing
- Holisitc, Intelligent and Networked Industrie 4.0

Forum Laser Additive Manufacturing

- Additive Manufacturing of f Rocket Engine Components
- Alloy Development for Coating, Repair and Additive Manufacturing
- Further Developments of EHLA EHLA 3D
- Insights into LPBF

CHOICE OF TOPICS: May 5-6, 2022 - LASER TECHNOLOGY CONFERENCE **Gerd Herziger Session** Perspectives for the Laser Source Development ■ Digitization in Photonic Production **Laser Beam Sources** Solid State and Fiber Lasers Ultrafast Lasers Lasers with Tailored Wavelengths Diode Lasers **Laser Material Processing Macro** Laser Powder Bed Fusion 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 Nearly 60 live demonstrations and exhibits at the Fraunhofer Institute for Laser Technology ILT and LIVE companies in the Institute's Application Center **EXHIBITION** 44 laser, component and system manufacturers showcase their products at the accompanying conference exhibition **SUPPORTING** ■ EPIC – European Photonics Industry Consortium **ORGANISATIONS** European Commission ■ OptecNet Deutschland e. V. – Innovation Networks for Optical Technologies Photonics Germany SPECTARIS – German Industry Association for Optical, Medical and Mechatronical Technologies e. V. ■ VDA – German Association of the Automotive Industry e. V. ■ VDI Technology Center GmbH ■ VDMA – German Engineering Federation e. V. INNOVATION AWARD The 10,000 € doped "Innovation Award Laser Technology" is a European research prize awarded every other year by the associations Arbeitskreis Lasertechnik AKL e. V. and the European Laser Institute ELI e. V. 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 takes place on May 4, 2022 at the evening event of the AKL'22 in the Coronation Hall of Aachen's town hall. The winners of the "Innovation Award Laser Technology" in 2020 and 2022 will be honored.

Further information and photos at www.innovation-award-laser.org