

Press Release

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AKL'10 presents a broad program covering all aspects of laser technology

At the 8th International Laser Technology Congress AKL'10, to be held from May 5 to 7, 2010 in Aachen, around sixty high-caliber experts from research and industry will present information about current trends, new beam sources, practical applications and fundamentals from the laser technology sector. The complete program is now available online at www.lasercongress.org.

Thanks to its balanced and varied program, AKL will provide helpful information to laser users and manufacturers as well as business managers and marketing directors from a wide range of sectors. What's more, it will offer an ideal forum for an intensive exchange of expert knowledge. On May 6, 2010 Prof. Dr. Andreas Pinkwart, Minister of Innovation, Science, Research and Technology, and Prof. Dr. Hans-Jörg Bullinger, President of Fraunhofer-Gesellschaft, will open the Technology Conference held in conjunction with AKL'10. Prof. Dr. Reinhart Poprawe, Director of the Fraunhofer Institute for Laser Technology ILT, will be outlining the future of laser technology in the 'Gerd Herziger Session'. Senior managers from prominent laser manufacturers, including Dr. Peter Leibinger, TRUMPF, and Dr. Ulrich Hefter, ROFIN-SINAR, will be taking a look at the next generation of high-performance lasers.

From solar energy and medical engineering to aircraft construction – laser light is universally deployable!

In specialist sessions experienced speakers will focus on topics such as the high-power ultra-short-pulse laser and ultra-precision machining. For example, Dr. Achim Nebel from LUMERA LASER GmbH will explain the advantages of high-power picosecond laser beam sources for micro material processing. Dr. Keming Du from EdgeWave GmbH

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will illustrate various areas of application for the INNOSLAB laser and the customized properties it offers.

On the system engineering side, the winner of the Innovation Award 2008, Dipl.-Ing. Bertold Hopf from Daimler AG, will inform conference participants about new developments and quality assurance in remote laser welding. Dr. Godehard Schmitz will present concrete insights into the use of ultra-precision machining in industrial practice as reflected at Bosch company. Focusing on the innovation cluster project Integrative Production Technology for Energy-Efficient Turbomachinery (TurPro), which has a budget of 10 million euros, Dr. Andres Gasser from the Fraunhofer ILT will present latest research results in the field of turbine engineering. With reference to current projects, speakers will report on industrial products which have been processed for the first time using new laser techniques. For instance, Dr. Kurt Graichen from Berlin Heart GmbH will present titanium components of a heart support system which were polished by laser beam.

Solar technology holds a particularly important position as a driving force behind laser technology. The Technology Conference is therefore devoting three papers to this sector. Dipl.-Ing. Kai-Uwe Vayhinger from Manz Automation AG, for example, will highlight how laser techniques can be used for the high-throughput manufacture of solar cells. Two blocks of papers on the subject of laser measurement technology will round off the conference program. They will address the use of measurement techniques and systems in clinical diagnosis and bioanalysis.

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From an international perspective: potential and prospects for the laser markets

The Technology Business Day TBT'10 will take place on May 5, 2010, the day before the Technology Conference. It is geared to the needs of business managers and marketing directors seeking specific information on the status of and prospects for the laser markets. Sector experts and market specialists will provide valuable information on the European, American and Asian sales markets for laser technology. They will include prominent figures such as Thomas Merk, ROFIN-SINAR Laser GmbH, David A. Belforte, Belforte Associates, Sturbridge, USA, Dr. Kunihiko Washio, Paradigm Laser Research Ltd., Tokyo, and Ph. D. Bo Gu, IPG Fiber Laser Technology Co. Ltd., Beijing.

Participants who have little or no experience of laser systems can acquire fundamental knowledge about how lasers function and their applications at the Laser Technology ABCs seminars, which also take place on May 5, 2010.

Caption:

Figure 1: Laser Technology Conference at AKL'08.
Source: Fraunhofer ILT.

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