

International POLLASNET Workshop

Level of development of laser technologies in EU countries, potential powers of selected Polish companies as well as role of institutions supporting development of laser technologies - were the main subjects of international workshop "Laser and Optical Technologies - Implementation in Industry and SME's", organized on 11-12 Dec 2006 by Polish Laser Technologies Network POLLASNET, coordinated by the Institute of Optoelectronics, Military University of Technology (IOE), Warsaw, Poland.

During the first part of workshop, invited guests from Belgium, Lithuania, Germany and Spain presented selected problems of laser machining and range of activity/output volume of laser SMEs in their countries. Polish experience was represented by spin-off companies TopGaN and IMPLaser as well as by LASERINSTRUMENTS - Center for Laser Technique.



Prof. Jose Luis Ocana, Centro Láser U.P.M., Madrid, presenting lecture "Laser technologies implemented in Industry and SMEs in Spain".

Second part of workshop was dedicated to R&D and advanced applications of laser technique. Manfred Berger from Il-VI Deutschland presented actual directions of development of solid-state lasers and Dr Michael Duka from SPI, UK characterized advanced micromachining technologies utilizing fiber lasers. State of art in the field of modern solid state lasers in Poland and Czech was presented by Dr Jan Jabczyński (IOE) and future applications of laser generated EUV radiation were discussed by Dr Henryk Fiedorowicz - IOE director.

Third part of workshop was connected with description of structures and mechanisms supporting development of optoelectronics. Dr Marek Strzelec and Dr Zbigniew Patron summarized five years of international and domestic activity of POLLASNET, supported international projects and connections with other European and national laser networks. Krzysztof Lebkowski from Polish Federation of Engineering Associations presented aims and tasks of Polish Opto and Nano-Electronics Technological Platform. Regional strategy for support of innovation aimed at the creation of thematic regional clusters was presented by Dr Maria Antosik from Mazovian Voivodeship Office. Important supplement to further discussions contributed presentations of Dr Piotr Dumania - MNT ERA_NET, Mr Jerzy Tokarski - EUREKA Initiative and Prof. Jose Luis Ocana - coordinator of European Laser Network EULASNET II.

Round Table discussion, organized during the second day of workshop after visiting TopGaN and LASERINSTRUMENTS companies, summarized the all venture by underlining needs and expectations of SMEs addressed to universities and research centers as well as by drawing frames of more businesslike cooperation between science and industry. Event was attended by 40 participants from 6 countries, representing wide range of laser experts from science and industry, laser technology end users, laser networks and government agencies. The presentations given at the workshop can be accessed on the network website: <http://www.pollasnet.org.pl>.

The mission of Polish Laser Network POLLASNET is focused on concentrating the knowledge and correlating the efforts at national level for the development of the scientific and technological domain of lasers and optoelectronics, closely collaborating with the corresponding national networks BELASNET, Belgium, HULASNET, Hungary, LITHLASNET, Lithuania and European Umbrella EULASNET II, coordinated by Spain. The main objectives of network, apart from concentration of optoelectronic knowledge and know-how, consist in integration of domestic scientific and industrial society, promotion the collaboration with SMEs, support the participation to national and international project proposals, initiation of new activities and determination of new directions of investigations.

POLLASNET is coordinated by the Institute of Optoelectronics of the Military University of Technology, one of the biggest Polish optoelectronic centers, institution that has been investigated and developed lasers and optoelectronic devices for many years. IOE is also experienced in lasers application in many branches and has numerous contacts in Poland and in European laser technology centers.

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XVIII Workshop on Supervising and Diagnostics of Machining Systems, which will be held from the 12th to 15th of March 2007 in Karpacz, Poland. We are convinced that your or your co-workers' contribution to the Workshop will be of great interest and we believe it will be of considerable value to you. We would be very grateful for your prompt reply.

Relevant topics for the XVIII Workshop include:

High precision HSC machines for intelligent flexible machining systems; Hybrid machines design for intelligent manufacturing; Manufacturing holistic design methodology and systems; Process planning advanced procedures and systems; Integrated machining and assembly systems; AI tools application for manufacturing design; Intelligent manufacturing efficiency; Intelligent alignment, fixing and clamping of precise workpiece difficult to cut-design, optimization and monitoring; Automatic alignment and fixing modelling and efficiency; Offline and online optimization of machining; Control problems of advanced intelligent manufacturing; Errors model based compensation in intelligent manufacturing.; The papers usually accepted are related to the general topic of the Workshop – diagnostics and supervision of machining systems.

All information concerning the conference are available at the conference web site: <http://www.itma.pwr.wroc.pl>

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