Organisation
Partner countries
Austria, Belgium, Czech Republic, Switzerland, Spain
Language
Lectures in German or English, slides in English
Organizers
Federal Ministry of Education and Research (BMBF), Bonn
In cooperation with
Fraunhofer Institute for Laser Technology, ILT, Aachen
SPECTARIS – German HighTech Industry Association, Berlin
Contact for event
Dr.-Ing. Alexander Olowinsky
Fraunhofer Institute for Laser Technology, ILT
Steinbachstraße 15, 52074 Aachen, Germany
Phone: +49 241 8906-491, Fax: +49 241 8906-121
E-mail: alexander.olowinsky@ilt.fraunhofer.de
Contact at Project Management Agency Karlsruhe (PTKA)
Dipl.-Ing. Stefan Scherr
Project Management Agency Karlsruhe (PTKA)
Karlsruhe Institute of Technology (KIT)
Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany
Phone: +49 721 608-25286, Fax: +49 721 608-25456
E-mail: stefan.scherr@kit.edu
Costs
There will be a registration fee of 140 Euro.
Registration
Please use the attached form until 11th January 2013 for registration. The number of participants is limited. Registrations are processed in the received order.

Direction to event
www.ilt.fraunhofer.de/en/contact.html

Funding
The german partners of the research and development projects are funded by the German Federal Ministry of Education and Research (BMBF) within the Framework Concept “Research for Tomorrow’s Production” and managed by the Project Management Agency Karlsruhe (PTKA).

The cooperation of the National and Regional Funding Agencies within ERA-NET is funded by the European Commission within the Seventh Framework Programme.

For more information about the event and the funded projects see: www.produktionsforschung.de
Event
The results of transnational projects in MANUNET and MNT-ERA-NET will be presented. The partners of the collaborative projects, launched in spring of 2010 will demonstrate in short talks and in an exhibition the results of their collaborative research. The use of the latest research contributions. Future possibilities for crossborder research will be discussed. The use of collaborative projects, launched in spring of 2010 will demonstrate in short talks and in an exhibition the results of their collaborative research.

Adaptive manufacturing
Chair: Dr.-Ing. Alexander Glowinsky, Fraunhofer Institute for Laser Technology, ILT, Aachen

Program
Theme: Research for Tomorrow’s Production
Innovation in manufacturing by transnational networking in ERA-NET

Registration: at 12:00

22nd January 2013
13:00 Welcome
Prof. Dr. Reinhart Poprawe, Fraunhofer Institute for Laser Technology, ILT, Aachen
Research for Tomorrow’s Production
Federal Ministry of Education and Research (BMBF), Bonn
Innovation in manufacturing for future markets
Dr. Markus Safarzic, SPECTARIS – German HighTech Industry Association

Adaptive manufacturing
Chair: Dr.-Ing. Alexander Glowinsky, Fraunhofer Institute for Laser Technology, ILT, Aachen

13:30 MANUNET-AMADEUS
A robotic multipurpose solution for intralogistics Dipl.-Ing. Lorenz Halt, Fraunhofer Institute for Manufacturing Engineering and Automation, Stuttgart
Integration of the robot arm in an automated guided vehicle Dietz Faude, Faude Automatisierungstechnik GmbH, Gärtringen
Automated guided vehicle with a robotic manipulator and integration in manufacturing execution system Dipl.-Ing. (FH) Wolfgang Reiner, advanced clean production Information Technology AG, Stuttgart

14:45 MANUNET-LASERDAPT
Flexible production for varying parts and lot sizes Dipl.-Ing. Paul Heinen, Fraunhofer Institute for Laser Technology, Aachen
Aspects of image processing in combination with laser scanners Herbert Schulz, Schulz Systemtechnik GmbH, Überschichting
Use of Laserdapt manufacturing technology at RJ Lasertechnik Dipl.-Ing. Ralf Risters, RJ Lasertechnik GmbH, Übach-Palenberg
Exhibition and coffee break MANUNET-ALPINE
Laser polishing in tool and mold making Dr. Edgar Willenborg, Fraunhofer Institute for Laser Technology, Aachen
Machine tool for laser polishing Thomas Arnold, Karl H. Arnold Maschinenfabrik GmbH & Co. KG, Ravensburg
NC-functions for 8-axes simultaneous processing with mechanical and optical axes Dr. Oliver Steffens, Steffens und Fohn NC-Systemtechnik GbR, Herzogenrath

15:30 Exhibition and coffee break MANUNET-QuaMiNet
Design of micro injection molding processes, data acquisition and characterisation Dr.-Ing. Philipp Imgrund, Fraunhofer Institute for Manufacturing Technology and Advanced Materials, Bremen
Mathematical models and software tools Dr. Patrick Bangerter, algorithmica technologies GmbH, Bremen
Test results and evaluation of moulded parts Dipl.-Ing. Björn Dornmann, Kloeckner Desma Schuhmaschinen GmbH, Achim
Exhibition and coffee break MANUNET-SCALAB
Efficient production equipment Chair: Dr.-Ing. Christian Wenzel, Fraunhofer Institute for Production Technology, IPT, Aachen

09:00 MNT-SCALAB
Modular gripping and handling components for micro assembly Prof. Dr. Matthias Haag, SCHUNK GmbH & Co. KG, Lauten am Neckar
Multi-agent approaches for highly modular control system architectures Dipl.-Ing. Christian Schlette, Institute of Man-Machine Interaction, Aachen
Developments for the automated assembly of laser systems Dipl.-Ing. Dipl.-Wirt. Ing. Nicolas Pyschung, Fraunhofer Institute for Production Technology, Aachen

09:45 MNT-METASOLAR
Ultra-short pulse laser ablation for efficient solar cell manufacturing Prof. Dr. Heinz Huber, University of Applied Sciences, Munich
Combined print and laser process machines for patterning of flexible substrates Dipl.-Ing. (FH) Peter Lens, LS Laser Systems Gesellschaft mbH, Munich

10:30 Exhibition and coffee break MNT-SCAN kidn
Inline process metrology system for the control of laser surface structuring processes M. Sc. Guillerme Mallmann, Fraunhofer Institute for Production Technology, Aachen
Verification and testing of measuring system Dipl.-Ing. Stefan Hofmann, Werkzeugbau Siegfried Hofmann GmbH, Lichtenfels