



CALL FOR PAPERS III DEADLINE: JANUARY 15, 2010



LPM 2010

11th International Symposium
on Laser Precision Microfabrication
June 7-10, 2010
in Stuttgart, Germany



Japan Laser Processing Society

co-located with



International trade fair for system
solutions in laser material processing

INTERCHANGE BETWEEN RESEARCH AND INDUSTRY

Miniaturization and high precision are rapidly becoming a requirement in many industrial processes and products. As a result, there is greater interest in the use of laser micro fabrication approaches to achieve these goals. The International Symposium on Laser Precision Microfabrication (LPM) is annually held to provide a forum for research and technology development in the area of **laser micro/nano fabrication**. The unique aspect of this symposium is the **interchange between fundamental research and industrial applications**.

LPM is held alternatively in Japan and in other host countries. To date, LPM has been successfully hosted in Omiya, Singapore, Osaka, Munich, Nara, Williamsburg, Kyoto, Vienna, Quebec and Kobe. In 2010 it will be held in the International Congress Center (ICS) on the Stuttgart trade fairgrounds, concurrently with the international trade fair for system solutions in laser material processing, Lasys, and the Stuttgart Laser Technology Forum (SLT).

Stuttgart, well known as car capital is also the center of one of the most advanced regions in the field of manufacturing with lasers. Suppliers like Trumpf and pioneering users like Daimler and Bosch are located here and benefit from renowned research infrastructure.

SPECIAL SESSIONS

50 years of LASER

The 50th birthday of the LASER will be celebrated in a session giving worldwide known pioneers the opportunity to look back to the origins and to the enormous development since.

Lasers for micro fabrication

This session co-organized with SLT gives an overview of recent progress and expected developments of laser sources for micro applications.

Industrial applications

In this session co-organized with SLT numerous application success stories show the importance of micro fabrication for production of automobile, photovoltaic and electronic products.

LPM Topics

1. Fundamental aspects (dynamic, modeling, simulation, etc.)
2. Process monitoring and control
3. Nano technology
4. Direct write process (MAPLE-DW, LIFT, etc.)
5. Ultra short pulse laser processing
6. VUV laser processing
7. Surface treatment (texturing, cleaning, annealing, modification, etc.)
8. Micro patterning and micro structuring
9. Micro machining
10. 3-D micro and nano fabrication
11. Drilling and cutting
12. Welding and bonding
13. Micro forming
14. Wafer dicing
15. Marking and trimming
16. Packaging and mounting process
17. Lithography (including EUV source and application)
18. Manufacture of micro devices and systems
19. Film deposition and synthesis of advanced materials (PLD, CVD, etc.)
20. Nano and micro particles
21. Medical and biological applications
22. Optics and systems for laser micro processing
23. Laser devices
24. Industrial applications
25. Photochemistry
26. Free electron laser material processing
27. High-power single-mode fiber lasers
28. Glass/ceramic processing
29. Others

ABSTRACTS

The organizing committee invites all interested individuals to present their latest research findings in any aspects of laser advanced materials processing covering precision micro fabrication. Those who wish to make a presentation should submit abstracts to be considered for oral/poster presentation.

SUBMISSION DUE DATE: JANUARY 15, 2010

- All abstracts must be submitted online: <http://www.lpm2010.org/abstracts>
- Neither fax nor e-mail submission will be accepted.
- Further information and format instructions also under <http://www.lpm2010.org/abstracts>

Organizers

JLPS Japan Laser Processing Society
Landesmesse Stuttgart GmbH

General Chair

Koji Sugioka (RIKEN, Japan)

Honorary Chair

Isamu Miyamoto (Osaka University, Japan)

Co-chairs

Friedrich Dausinger
(Dausinger+Giesen GmbH, Germany)
Hiroyuki Niino (AIST, Japan)
Alberto Pique (NRL, USA)
Kazuyoshi Itoh (Osaka University, Japan)
Seiji Katayama (Osaka University, Japan)
Arnold Gillner (Fraunhofer ILT, Germany)



PRICES LPM

Early bird (3 months before)	550 EUR
Post deadline	620 EUR
Student	350 EUR

JLPS members discount 10 %

HOTELS

Watch out for our special offers for travel and accommodation / hotel reservation. Offers available starting March 2010 at www.lasys-messe.de

A HIGH-TECH TRADE FAIR IN THE CENTRE OF EUROPE

The perfect transport links of the New Stuttgart Trade Fair Centre are absolutely unique. The Airport is only 200 metres from the New Stuttgart Trade Fair Centre while the journey to Stuttgart Main Railway Station takes just 20 minutes on the rapid-transit railway. There are direct connections to all major cities in Europe. Anyone coming by car to the New Stuttgart Trade Fair Centre will have an easy journey thanks to its direct proximity to the A8 motorway.

The New Stuttgart Trade Fair Centre is therefore the ideal location for a symposium such as LPM, whose catchment area for both exhibitors and visitors includes the whole of Europe.

ABSTRACT DUE DATE: JANUARY 15, 2010

Contact: JLPS Japan Laser Processing Society, LPM 2010 Office, teraoka@jlps.gr.jp
www.lpm2010.org

Position at October 2009. Landesmesse Stuttgart GmbH.
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