

7th International Symposium on Laser Precision Microfabrication

# LPM2007

<http://www.jlps.gr.jp/lpm/lpm2007/>

**24. - 28. April 2007, University of Vienna, Vienna, Austria**

**Abstract Submission Due Date:** Dec. 1, 2006

**Proceedings Submission Due Date:** April 24, 2007

**Organizers:**

**JLPS**, Japan Laser Processing Society, Japan

**University of Vienna**, Department of Physical Chemistry, Vienna, Austria

**Austrian Laser Association** (ARGELAS), Vienna, Austria

**Vienna University of Technology**, Department for Forming and High Power Laser Technology, Austria

**AIST**, National Institute of Advanced Industrial Science and Technology, Japan

**RIKEN**, The Institute of Physical and Chemical Research, Japan

**General Chair:**

Isamu Miyamoto, Osaka Univ., Japan

**Co-Chairs:**

Wolfgang Kautek, Univ. of Vienna, Department of Physical Chemistry, Vienna, Austria

Koji Sugioka, RIKEN, Japan

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Friedrich H. Dausinger, Univ. of Stuttgart, Institut für Strahlwerkzeuge, IFSW, Stuttgart, Germany

Henry Helvajian, The Aerospace Corporation, El Segundo, California, USA

Kazuyoshi Itoh, Osaka Univ., Japan

Seiji Katayama, Osaka Univ., Japan

**Aim and Scope:**

Miniaturization and high precision are rapidly becoming a requirement on many industrial processes and products. As result, there is greater interest in the use of laser micro/nanofabrication 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/nanofabrication. The topics encompass novel developments in hardware, software and in the fundamental chemistry/physics that buttress laser material interaction processes. The unique aspect of this conference is the interchange between fundamental research and industrial applications.

LPM is held in Japan in even years and in other host countries in odd years. To date, LPM has been successfully hosted in Omiya/Japan (2000), Singapore (2001), Osaka/Japan (2002), Munich/Germany(2003), Nara/Japan (2004), Williamsburg/USA (2005), and Kyoto/Japan (2006).

The aim of LPM2007 is to provide a forum for discussion on the fundamental aspects of laser/material interaction, the state of the art of laser materials processing and the germination of next-generation ideas that arises from collaborating scientists, end users and laser manufacturers. The LPM2007 Proceedings will be published online. We extend a welcome and hope that you will join us at LPM2007.



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Lecture Hall

## **LPM Topics:**

1. Fundamental aspects (Dynamics, modelling, simulation, etc.)
2. Process monitoring and control
3. Laser- and Photochemistry
4. Nanotechnology
5. Ultra-short pulse laser processing
6. VUV laser and X-ray processing
7. Advanced laser processing (fibre laser, disc laser, FEL, etc.)
8. Surface treatment (Texturing, cleaning, annealing, modification, etc.)
9. Micro-patterning and micro-structuring
10. Micro-machining
11. 3-D micro- and nano-fabrication
12. Laser-based direct-write techniques
13. Glass/Ceramic processing
14. Drilling and cutting
15. Welding and bonding
16. Micro-forming
17. Wafer dicing
18. Marking and trimming
19. Packaging and mounting process
20. Lithography (including EUV source and application)
21. Manufacture of micro devices and systems
22. Film deposition and synthesis of advanced materials (PLD, CVD, etc)
23. Nano- and micro-particles
24. Medical and biological applications
25. Optics and systems for laser microprocessing
26. Laser devices
27. Industrial applications
28. Others

## **Tourist and logistics organization:**

Vienna Convention Bureau ([www.vienna.convention.at](http://www.vienna.convention.at))

## **Vienna, Austria:**

[www.wien.gv.at/english/](http://www.wien.gv.at/english/)

[www.info.wien.at](http://www.info.wien.at)



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