

LPM2027

The 28th International Symposium on
Laser Precision Microfabrication



Date

June 1-4, 2027

Venue

LIGHT CUBE UTSUNOMIYA, Utsunomiya-city, Tochigi, Japan <https://light-cube.jp/>

Organizer

Japan Laser Processing Society (JLPS) <http://www.jlps.gr.jp/>

Aim and Scope

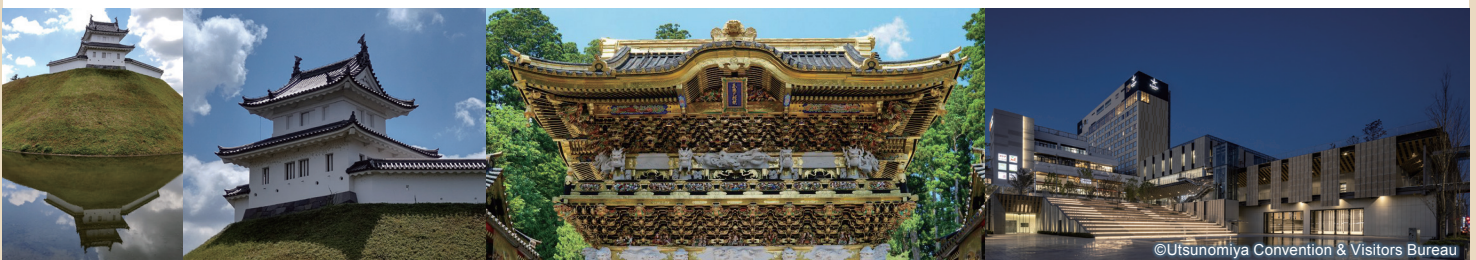
Miniaturization and high precision are rapidly becoming requirements in many industrial processes and products. As a result, there is greater interest in the use of laser micro fabrication approaches to achieve these goals. The International Symposium on Laser Precision Microfabrication (LPM) is alternatively held in Japan and in other host countries.

To date, LPM has been successfully hosted in Omiya, Singapore, Osaka, Munich, Nara, Williamsburg, Kyoto, Vienna, Quebec, Kobe, Stuttgart, Takamatsu, Washington D.C., Niigata, Vilnius, Kokura, Xi'an, Toyama, Edinburgh, Hiroshima, Dresden, Hirosaki, San Sebastian, Ise, and Greenville, South Carolina, USA.

The aim of this symposium is to provide a forum for discussion of fundamental aspects of laser-matter interaction, the state-of-the-art of laser materials processing, and topics for the next generation with fundamental scientists, end users and laser manufacturers. We expect that LPM2027 would play an important role not only for understanding fundamental knowledge of laser precision microfabrication but also forecasting future technologies to be developed and the future laser market.

Committee Members

- **General Chair** : Prof. **Yasuhiro Okamoto**, Hiroshima University, Japan
- **Co-chairs** : Prof. **Mitsuhiro Terakawa**, Keio University, Japan (Program Committee Chair)
Prof. **Yongfeng Lu**, University of Nebraska-Lincoln, USA
Prof. **Dr. Ing. Michael Schmidt**, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- **Treasurers** : Prof. **Yasutaka Hanada**, Hirosaki University, Japan
Prof. **Mizue Mizoshiri**, Tohoku University, Japan
- **Steering Committee** :
Steering Committee Chair : Assoc. Prof. **Satoshi Hasegawa**, Utsunomiya University, Japan
Executive Advisor : Prof. **Yoshio Hayasaki**, Utsunomiya University, Japan
- **Honorary Chairs** :
Emeritus Prof. **Isamu Miyamoto**, The University of Osaka, Japan
Dr. **Koji Sugioka**, RIKEN, Japan
Dr. **Niino** (Former AIST, Japan)



Congress website

<http://www.jlps.gr.jp/lpm/lpm2027/>

LPM2027 TOPICS

1. Fundamental aspects (Dynamics, modeling, simulation, etc.)
2. Laser and photochemistry
3. Ultra-short pulse laser processing
4. Burst ablation
5. Advanced laser processing (Fiber laser, disc laser, FEL, etc.)
6. Glass/Ceramic processing
7. VUV laser and X-ray processing
8. Nanotechnology
9. Nano ripple formation
10. Nano- and micro-particles (including laser synthesis and processing in liquids)
11. Micro-machining
12. Micro-drilling and micro-cutting
13. Micro-welding and micro-bonding
14. Micro-forming
15. Micro-patterning and micro-structuring
16. Surface processing (Texturing, cleaning, annealing, modification, etc.)
17. 3-D micro- and nano-fabrication
18. Film deposition and synthesis of advanced materials (PLD, CVD, etc.)
19. Laser-based direct-write techniques
20. Laser-induced forward transfer (LIFT) techniques
21. Lithography (including EUV source and application)
22. Laser devices
23. Beam shaping
24. Optics and systems for laser microprocessing
25. Process monitoring and control
26. Packaging and mounting process
27. Manufacture of micro devices and systems
28. Medical and biological applications
29. Industrial applications
30. Others
31. Special Session

CONTACT

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