



The 22nd International Symposium on Laser Precision Microfabrication June 8 to June 11, 2021, Web "On-Demand" conference

<http://www.jlps.gr.jp/lpm/lpm2021/>

LPM2021 -The 22nd International Symposium on Laser Precision Microfabrication will be held from June 8 to June 11, 2021. Initially, the organizing committee was planning to hold it in Hirosaki city of Aomori Prefecture, Japan, as a "Real Conference" on site. However, due to the recent context of COVID-19, there is no choice but to do it as "Web-Conference" instead. Considering the time difference, **"On-Demand" presentations**, questions and answers will be appropriate. At the same time, we will try to seek the possibility on "LIVE Remote presentations at GMT time zone" only for Plenary Session. Oral presentations including invited talks will be done by "On-Demand" method. Traditional poster session will not be arranged this time. Instead of that, Short Note (5 minutes oral presentation) will be welcomed.

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 and Dresden (Web Conference). 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 manufactures. We expect that LPM2021 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.

ABSTRACT ONLINE SUBMISSION: <http://www.jlps.gr.jp/lpm/lpm2021/abstract/>

IMPORTANT DATES:

MARCH 8, 2021, JST:	Abstract Submission Due Date
APRIL 9, 2021, JST:	Deadline for Presenting Authors' registration
MAY 10, 2021, JST:	Registration Due Date

TYPE OF PRESENTATION:

Plenary Talk (Live-remote talk for 40 minutes, Time zone: GMT)

Invited Talk (On-Demand MP4 video for 25 minutes)

Full Oral Presentation (On-Demand MP4 video for 15 minutes)

Short Oral Presentation (On-Demand MP4 video for 5 minutes)

- Poster session is not arranged in LPM2021.

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: "Photoacoustic Phenomena in Materials"
(Special Session Organizer: Prof. Craig B. Arnold, Princeton University, USA)

REGISTRATION FEE:

Invited speaker		Resident of Japan: JPY 38,500 Non-Resident of Japan: JPY 35,000
Full Registration	JLPS Member	Resident of Japan: JPY 38,500 Non-Resident of Japan: JPY 35,000
	Non-Member	Resident of Japan: JPY 44,000 Non-Resident of Japan: JPY 40,000
Retired person		Resident of Japan: JPY 27,500 Non-Resident of Japan: JPY 25,000
Student		Resident of Japan: JPY 27,500 Non-Resident of Japan: JPY 25,000

*For non-resident of Japan: Sales tax VAT 10% is not included in the registration fee.

ONLINE REGISTRATION: <http://www.jlps.gr.jp/lpm/lpm2021/registration/>

SPECIAL THANKS FOR GRANTS:

THE AMADA FOUNDATION

Foundation for Promotion of Material Science and Technology of Japan

Nippon Sheet Glass Foundation for Materials Science and Engineering
(NSG Foundation)

Tokuyama Science Foundation

COMMITTEE CORE MEMBERS:

General Chair: Dr. Hiroyuki Niino, AIST, Japan

Co-Chairs: Dr. Yasuhiro Okamoto, Okayama University, Japan

Prof. Yongfeng Lu, University of Nebraska-Lincoln, USA

Prof. Michael Schmidt, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Program Committee Chair: Dr. Yasuhiro Okamoto, Okayama University, Japan

Steering Committee Chair: Prof. Yasutaka Hanada, Hirosaki University, Japan

Treasurer Leader: Prof. Mitsuhiro Terakawa, Keio University, Japan

Submission System Leader: Prof. Tetsuya Makimura, University of Tsukuba, Japan

ORGANIZED BY:

Japan Laser Processing Society (JLPS)

c/o JWRI, Osaka University, 11-1 Mihogaoka, Ibaraki, Osaka 567-0047, Japan

TEL/FAX: +81-6-6879-8642, E-mail: lpm2021@jlps.gr.jp