LPM2024

The 25th International Symposium on Laser Precision Microfabrication

June 11th-14th, 2024
San Sebastián, Spain

Organizers

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MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

JLPS

Aim & 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 aim of the **International Symposium on Laser Precision Microfabrication (LPM)** 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 **LPM2024** 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.

Commitee Chairs

General Chair:

- Dr. Yasuhiro Okamoto, Okayama University, Japan.

LPM2024 Co-chair and Program Committee Chair:

- Prof. Dr. Santiago M. Olaizola

Co-Chairs:

- Prof. Yongfeng Lu, University of Nebraska-Lincoln, USA.
- Prof. Dr. Michael Schmidt, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany.
- Prof. Mitsuhiro Terakawa, Keio University, Japan.

Honorary Chair:

- Prof.Dr. Isamu Miyamoto
- Dr. Koji Sugioka
- Dr. Hiroyuki Niino

About San Sebastián

San Sebastian, also known as Donostia / San Sebastián, is a captivating coastal city in the Basque Autonomous Region, Spain. It's the capital of Gipuzkoa province and home to 188,102 residents 2021. Despite its size, San Sebastian boasts four universities and numerous research institutes, making it a vibrant hub for academics and researchers.

Topics

1 | Fundamental aspects (Dynamics, modelling, 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: TBA.