

# SLPC2024

## The 5th Smart Laser Processing Conference

Organized by Japan Laser Processing Society (JLPS)

Co-organized by Joining and Welding Research Institute (JWRI), Osaka University

**Date** April 23-25, 2024 **Venue** Pacifico Yokohama, Japan

Co-located with OPIC2024 - OPTICS & PHOTONICS International Congress 2024 (April 22-26, 2024)

## AIM AND SCOPE

Laser beam processing is played an important role in industrial fields of not only macro-products but also micro-products, and its technologies are essential to open the new strategies of smart manufacturing such as highly integrated, accurate, efficient processing with low energy consumption.

SLPC2024 deals with science and technology of smart laser materials processing including micro and macro laser processing. SLPC2024 is planned as a three-day event with a plenary session, oral session and poster session.

The aim of this conference is to provide a forum for discussion of fundamental aspects of laser-matter interaction, the state-of-the-art of smart laser processing, and topics for the next generation with fundamental scientists, end users and laser manufacturers.

We expect that SLPC2024 would play an important role not only for understanding fundamental knowledge of laser processing but also forecasting future technologies and the future laser processing fields.

Also, during the SLPC2024 conference, OPTICS & PHOTONICS International Congress 2024 (OPIC2024) will be held jointly in the same venue. SLPC2024 attendees can join the other conferences of OPIC2024 free of charge since SLPC2024 is one of the conferences of OPIC2024. SLPC2024 registration will be available at the OPIC2024 website; <https://opicon.jp/>

Conference Chair: Prof. **Masahiro Tsukamoto**, JWRI, Osaka University, Japan

Steering Committee Chair: Dr. **Yuji Sato**, JWRI, Osaka University, Japan

Program Committee Chair: Dr. **Masahito Katto**, University of Miyazaki, Japan

## TOPICS AND FIELDS

- Cutting
- Welding
- Additive Manufacturing / Selective Laser Melting
- Cladding / Laser Metal Deposition
- Functional Surface Manufacturing
- Laser Peening and Related Phenomena
- Laser Polishing / Cleaning
- Short Wavelength Application
- Micro Nano Processing
- Ultrashort Pulsed Laser Processing
- Advanced Lasers and Optical Technologies
- CFRP Processing
- Industrial Applications
- AI / CPS Laser Processing
- High Power Blue and Green Lasers
- Others

### CONTACT

SLPC2024 Secretariat, 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: [slpc@jlps.gr.jp](mailto:slpc@jlps.gr.jp)

<http://www.jlps.gr.jp/slpc2024/>