



SLPC2022
The 4th Smart Laser Processing Conference
 Organized by Japan Laser Processing Society (JLPS)
 Co-organized by Joining and Welding Research Institute, Osaka University

Date April 19-21, 2022 **Venue** Pacifico Yokohama, Japan

Co-located with OPIC2022 -OPTICS & PHOTONICS International Congress 2022 (April 18-22, 2022)

Conference Website: <http://www.jlps.gr.jp/slpc2022/>



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.

SLPC2022 deals with science and technology of smart laser materials processing including micro and macro laser processing. SLPC2022 is planned as a three-day event with a plenary session, oral sessions 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 SLPC2022 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.

During the SLPC2022 conference, OPTICS & PHOTONICS International Congress 2022 (OPIC2022) will be held jointly. SLPC2022 attendees can join the other conferences of OPIC2022 free of charge since SLPC2022 is one of the conferences of OPIC2022. (<https://opicon.jp/>)

Note: SLPC2022 will be presented as a hybrid event - a combination of in-person and virtual participation options. Considering the current restrictions on entry into Japan, there is no other way but to give lectures and participate in lectures by overseas residents, but in principle, domestic residents give lectures and participate in a face-to-face manner. In addition, please note that it may be changed depending on the situation of the COVID-19 pandemic in the future. It is still not easy to hold a conference, but we will do our best to prevent corona infection, and we ask for your active participation and support.



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 Laser
- Others



IMPORTANT DATES

One-page digest submission due date (Extended)	February 4, 2022
Early-Bird Registration	On/Before April 7, 2022
SLPC2022 conference dates	April 19-21, 2022

Online Submission & Registration: Available at the following OPIC2022 website.

One-Page Digest Submission: <https://opicon.jp/submission/>

Registration: <https://opicon.jp/registration/>

INVITED SPEAKERS

- PLENARY SPEAKERS -

Professor Emeritus Reinhart Poprawe (Senior Advisor Fraunhofer Gesellschaft;
Chair for Lasertechnology RWTH Aachen, Germany)

Prof. Yohei Kobayashi (The University of Tokyo, Japan)

Prof. Hideki Kyogoku (Kindai University, Japan)

- INVITED SPEAKERS-

Dr. Dinh Thanh-Hung (National Institutes for Quantum Science and
Technology, Japan)

Dr. Satoshi Hasegawa (Utsunomiya University, Japan)

Dr. Yusuke Ito (The University of Tokyo, Japan)

Dr. Markus Kogel-Hollacher (Precitec GmbH & Co. KG, Germany)

Dr. Reina Miyagawa (Nagoya Institute of Technology, Japan)

Dr. Tsuyoshi Nakamura (TRUMPF Corporation, Japan)

Prof. Timotius Pasang (Oregon Institute of Technology, USA)

Dipl. -Ing. Markus Rütering (Laserline GmbH, Germany)

Mr. Natsuki Suzuki (Hamamatsu Photonics K.K., Japan)

Dr. Tomomichi Yasuoka (FURUKAWA ELECTRIC CO., LTD., Japan)

COOPERATING SOCIETIES

Deutsche Gesellschaft für Materialkunde e.V., DGM-Inventum GmbH,
Germany

Japan Welding Society, Laser Platform Association, Japan

Smart Processing Society for Materials, Environment & Energy, Japan

Swissphotonics, Verein Schweizer Laser und Photonik Netz VSLP, Switzerland

The Association of Industrial Laser Users (AILU) , UK

The Japan Welding Engineering Society, Japan

The Laser Society of Japan

Wissenschaftliche Gesellschaft Lasertechnik e.V. (WLT), Germany



COMMITTEE

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Rudolf Weber, *University of Stuttgart, Institut für Strahlwerkzeuge (IFSW), Germany*



CONTACT

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