

Call for Paper

Laser Solutions for Space and the Earth 2026

Conference

April 20-24, 2026, Pacifico Yokohama, Yokohama, Japan

Objectives

The aim of “*Laser Solutions for Space and the Earth*” (LSSE) is to discuss the application of emerging laser technologies to solve various problems for sustainable developments of space and the earth.

The featured topics of LSSE2026 include “Carbon Neutral”, “Space Technology”, “Remote Sensing”, “Industrial Application”, and “Agri-Photonics”. In addition, LSSE2026 will host a planned session on “Laser Acceleration”, focusing on novel schemes of particle acceleration and their applications to space propulsion and radiation sources. “Agri-Photonics” are joint session with FAAP2026 (*the Future of Agriculture and Advanced Photonics*) that is a conference for the fusion of science and technology for sustainable food production.

The program will feature several keynote lectures and many invited talks.

LSSE2026 is collaborated with OPIC2026¹⁾ (Optics & Photonics international Congress 2026).

OPIC is the largest conference in OPTICS and PHOTONICS in Japan with more than 10 conferences in addition to LSSE. You can also participate in OPIC2026 by participating in LSSE2026. In addition, you can also participate in OPIE²⁾, Japan's largest exhibition in the fields of optical technology and photonics.

We look forward to welcoming you to Yokohama!

Topics (Scope of LSSE2026)

-Space Technology

- Lasers in Space
- Laser debris deorbit
- Optics for space technology

- Carbon Neutral and Renewable Energy

- Biochemical application
- Nuclear Applications

- Remote sensing and Environmental Monitoring

- Inspection of Infrastructures by Quantum beam (Neutron source, Laser, etc)
- Laser induced breakdown spectroscopy

- Industrial application

- Extreme condition
- Robotics
- Infrastructures

- Laser Acceleration (Special Planned Session for LSSE2026)

- Laser Acceleration

- Agri Photonics (Joint session with FAAP2026)

- Future of Agriculture and Advanced Photonics
- • • and more

Official Language

English

Important dates

- Submission Site Open, 9 October 2025
- Submission Deadline, 22 December 2025
- Registration Site Open, 19 January 2026
- Program Site Open, 3 February 2026

1) OPIC2026, <https://opicon.jp/>

2) OPIE2026, <https://www.opie.jp/>