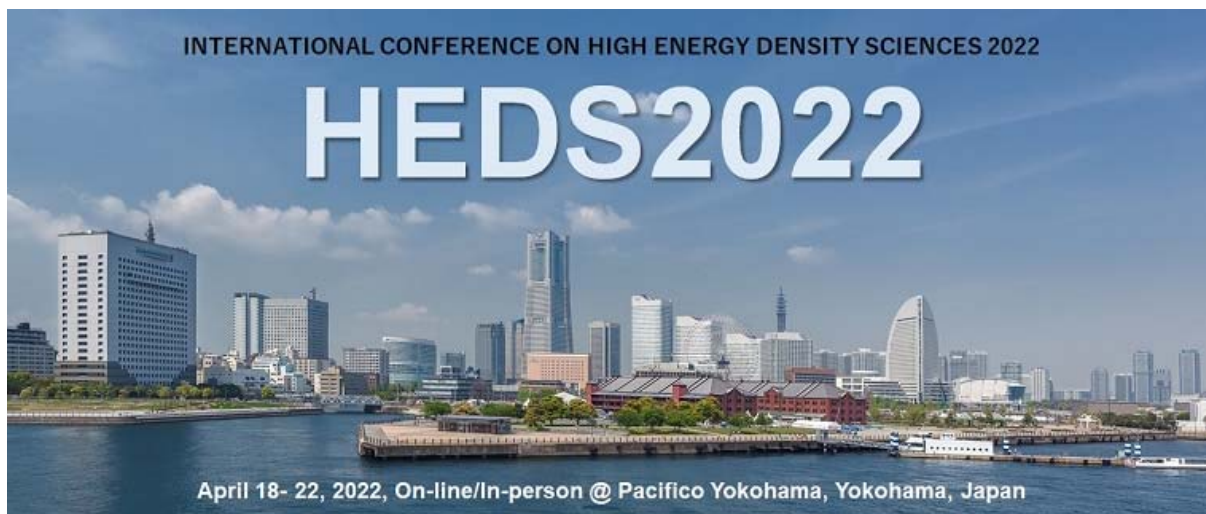


## Submission Deadline: 4 February 2022

<http://opicon.jp/>

<https://www.ile.osaka-u.ac.jp/heds2022/>



### OBJECTIVE

Recent progress in high-power laser technology and the advent of X-ray free electron lasers have energetically advanced our understanding of matter in extreme environments. Materials dynamically compressed by high-power laser irradiation, which reach ultra-high pressure and temperature states or warm dense matter states, are closely related not only to plasma physics and material science but also to earth and planetary science and inertial confinement fusion researches. Since such materials are highly complex systems, they are interdisciplinary research interests where both experimental and computational contributions are essential. In the scientific research area, we recognize that it is beneficial to hold a conference to promote international and interdisciplinary collaboration and overview the current status and prospects of the related fields. Thus, we propose to hold an international conference at the annual HEDS meeting with a topical focus on "Matter in Extreme Conditions". The conference aims to discuss a definite theme with distinguished overseas scientists with experiences in high-pressure science, shock physics, materials science, earth and planetary science, first-principles calculations, high-power lasers, and X-ray free electron lasers, increasing the number of foremost participants in related fields.

INTERNATIONAL CONFERENCE ON HIGH ENERGY DENSITY SCIENCES 2022 (HEDS2022) is organized to share recent advances in science and technology on the matter under extreme high-energy-density conditions. The conference will be held on April 18- 22, 2022, both online and in-person, with the sponsorship of the Laser Society of Japan, and Institute of Laser Laboratory, Osaka University.

### SCOPE

HEDS2022 covers the high energy density sciences with high power lasers and its application in the following major topical fields;

- A) Dynamic and static high pressure
- B) Warm dense matter
- C) Simulation and modeling
- D) Planetary science
- E) Material sciences and applications
- F) Facility, diagnostics, and other technological advances

### COMMITTEE MEMBERS

Conference Chair

Keisuke Shigemori (Osaka Univ.)

Ryosuke Kodama (Osaka Univ.)

Steering Committee Chair

Norimasa Ozaki (Osaka Univ.)



Contact address : [heds2022@lie.osaka-u.ac.jp](mailto:heds2022@lie.osaka-u.ac.jp)

## REGISTRATION

### Registration Fees

		On/Before 7 April 2022	After 8 April 2022
Member*	General	¥50,000	¥55,000
	Student	¥13,000	¥16,000
Non-Member	General	¥60,000	¥65,000
	Student	¥16,000	¥18,000
	Remote, Non-Author Student	¥2,000	¥2,000

\*Member of specialized International Conference Organizations

### OPTICS&PHOTONICS International Congress 2022 (OPIC2022) <http://opicon.jp/>

15 international conferences held simultaneously. By registering for this conference, you can participate in all international conferences.

- ALPS - The 11th Advanced Lasers and Photon Sources
- HEDS - International Conference on High Energy Density Science 2022
- ICNN - International Conference on Nano-photonics and Nano-optoelectronics 2022
- IP - Information Photonics 2022
- LDC - Laser Display and Lighting Conference 2022
- LEDIA - The 9th International Conference on Light-Emitting Devices and Their Industrial Applications
- LIC - Tiny Integrated Laser and Laser Ignition Conference
- LSC - Conference on Laser and Synchrotron Radiation Combination Experiment 2022
- LSSE - Laser Solutions for Space and the Earth 2022
- OMC - The 9th Optical Manipulation Conference and Structured Materials
- OPTM - Optical Technology and Measurement for Industrial Applications 2022
- OWPT - Optical Wireless and Fiber Power Transmission Conference 2022
- SLPC - The 5th Smart Laser Processing Conference
- SI-Thru - Conference on Sensing and Imaging through Scattering and Fluctuating Field
- XOPT - International Conference on X-ray Optics and Applications 2022

### SUBMISSION OF PAPERS

A 300-word abstract form should be submitted through OPIC2022 web. If you have anything to ask, please contact to "heds2022@lie.osaka-u.ac.jp". The abstract template will be available through the Web site.

### POSTER SESSION

The author(s) of poster presentations will be informed of the size of bulletin board for displaying summary, figures, tables, etc., when selected as poster papers.

### POST DEADLINE PAPERS

A limited number of post deadline papers will be accepted for presentation at post deadline sessions.

### OFFICIAL LANGUAGE

The official language of HEDS2022 is English.

### PLENARY, INVITED TALKS and FURTHER INFORMATION

The speaker and latest information on the conference will be presented on the Web site,

"<https://www.ile.osaka-u.ac.jp/heds2022/>".

### LOCATION OF CONFERENCE SITE

The HEDS2022 takes place online and at Pacifico Yokohama, Yokohama city, Kanagawa prefecture, JAPAN. Yokohama city, the center of Kanagawa prefecture is located south of Tokyo. Pacifico Yokohama is conveniently located about 40 min. by Limousine Bus from Haneda Airport and 90 min. from Narita Airport.

#### **Pacifico Yokohama**

<http://www.pacifico.co.jp/english/index.html>

1-1-1 Minato Mirai, Nishi-ku, Yokohama 220-0012, Japan

Transportation Guide: TEL +81-45-221-2166, Info.:+81-45-221-2155& FAX +81-45-221-2136