

# 18<sup>th</sup> International Conference on Liquid and Amorphous Metals

## LAM18 Hiroshima



(Photo of Atomic Bomb Dome)

September 4 – 9  
2022

JMS Aster Plaza  
Hiroshima International Youth House

Japan

*First Circular*

### CONFERENCE ORGANIZATION

#### LOCAL ORGANIZING COMMITTEE

Chair (General): M. Inui (Hiroshima Univ.)  
Chair (Program): F. Shimojo (Kumamoto Univ.)  
Co-Chair: S. Hosokawa (Kumamoto Univ.)  
Co-Chair: H. Kato (Tohoku Univ.)

Y. Kajihara and S. Munejiri (Hiroshima Univ.)  
S. Ohmura (Hiroshima Inst. of Technology)  
S. Kohara (NIMS)  
H. Masai and T. Morishita (AIST)  
Y. Kawakita (J-PARC)  
K. Matsuda (Kumamoto Univ.)  
S. Tahara (Univ. of Ryukyus)  
H. Shimakura (Niigata Univ. of Pharmacy &  
Applied Life Sciences)  
T. Usuki (Yamagata Univ.)  
T. Iwashita (Oita Univ.)  
J. Saida (Tohoku Univ.)  
T. Otomo (KEK)  
K. Fuchizaki (Ehime Univ.)  
K. Kimura (Univ. of Tokyo)  
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#### INTERNATIONAL ADVISORY BOARD

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#### INTERNATIONAL PROGRAM COMMITTEE

T. Bryk (Ukraine)	F. Demmel (UK)
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P. Svec (Slovak Republic)	H. Kato (Japan)

### SCOPE OF CONFERENCE

Since the 60s the state-of-the-art in the field of liquid and amorphous metals and alloys is the focus of an international conference, the "Liquid and Amorphous Metals conference" (LAM), which is in its 18th conference. Born as a conference on liquid metals in 1966 at Brookhaven, since 1980 it has been renewed including amorphous metals (1980, Grenoble, France) and then has continued a three years basis, with the last three editions held in Beijing, China, in 2013, in Bonn, Germany, in 2016 and in Lyon, France, in 2019.

The aim of the LAM conferences is to bring together scientists working in the field of liquid and amorphous metals in order to discuss new advances and future directions in this intriguing field of condensed matter physics, chemistry and materials sciences. Although primarily aimed at discussing the hottest topics in liquid and amorphous metals including semiconductors, molten salts, quasicrystals, complex systems, and some non-metallic systems such as molecular glasses, polymers, and colloids have in the past found their place in the conference, with the aim of stimulating discussions and brainstorming.

The conference includes the following topics:

- Structure
- Dynamics
- Atomic transport and diffusion phenomena
- Microstructure – heterogeneities
- Modelling and simulations
- Electronic structure and transport
- Thermodynamics.
- Surface and interfacial properties
- Magnetic properties
- Mechanical properties
- Solidification
- Glass transition
- Metal-nonmetal transition
- Amorphous and quasicrystals
- Exotic phenomena
- Experiments performed in space
- Hyper-order investigation
- Industrial applications

## CONFERENCE LOCATION

The conference will be held at JMS Aster Plaza near Peace Memorial Park in Hiroshima City. The city of Hiroshima is located at a west part in the main island of Japan, 700 km from Tokyo and 300 km from Osaka, facing the Seto inland sea. Itsukushima Shrine on Miyajima Island, a world Heritage Site, is located only 15 km far from the city (about 1 hour by public transportation). Hiroshima is the first city targeted by a nuclear weapon. The conference venue is very close to Atomic Bomb Dome and Peace Memorial Park. Additional information on the city and Miyajima Island are available on the following websites.

About Hiroshima

[https://visithiroshima.net/plan\\_your\\_trip/](https://visithiroshima.net/plan_your_trip/)

<https://www.hiroshima-navi.or.jp/en/information/>

About Miyajima Island

<https://www.miyajima.or.jp/english/>

Japan National Tourist Organization

<https://www.japan.travel/en/plan/>

Transportation in Hiroshima

<https://www.hiroshima-navi.or.jp/en/transportation/>

## CONFERENCE DETAILS

**Registration fee:**

General: 54,000 JPY per participant.

Retired: 49,000 JPY per participant.

Student: 34,000 JPY per participant.

Conference Dinner: 11000 JPY per participant

(Miyajima viewing cruise ship at night)

**Official Language:** English

**Welcome Party:** September 4, evening

**Start of 1st session:** September 5, morning.

**End of last session:** September 9.

Conference Dinner: September 7.

**Accommodation:** Hiroshima International Youth House offers less expensive rooms with priority given to students.

## MANUSCRIPT

The special issue on 18th International Conference on Liquid and Amorphous Metals (LAM18) is published by J. Phys.: Condensed Matter, similarly to LAM17. The deadline of the submission will be in November after LAM18 conference. All relevant researchers, regardless of whether they participated in LAM18 or not, are eligible to present their research in the special issue.

## SCHEDULE

**January 2022** 2nd Circular with Abstract template

<http://lam-18.hiroshima-u.ac.jp/>

Call for Abstract

**March 31, 2022** Abstract due

**April 30, 2022** Authors notified

**May 30, 2022** Registration start

## CORRESPONDENCE AND INFORMATION

**General:**

Prof. Masanori INUI

Grad. Sch. of Adv. Sci. & Eng., Hiroshima University,  
1-7-1 Kagamiyama, Higashi-Hiroshima 739-8521,  
Japan.

TEL: +81 (0)824 24 6555

FAX: +81 (0)824 24 0757

Email: masinui@hiroshima-u.ac.jp

**Program:**

Prof. Fuyuki SHIMOJO

Fac. of Adv. Sci. & Tech., Kumamoto University.

Email: shimojo@kumamoto-u.ac.jp

**Official Contact** (Abstract Submission):

Email: office@lam-18.hiroshima-u.ac.jp

Web: <http://lam-18.hiroshima-u.ac.jp/>

## Note on COVID-19

We are planning to organize on-site conference, but the period of the conference will be shortened if the number of participants is small. In this case, Hiroshima International Youth House (upper floors in JMS Aster Plaza) is the conference venue. In the abstract template, participants can choose 'on-site' or 'remote' participate,

if arrival from abroad is still difficult due to COVID-19. Organization with a formal hybrid mode is very difficult due to financial problem, but we are considering to hold online night session in Japan local time.

Fee of Conference Dinner is separated because of the case that a party in larger numbers is prohibited due to COVID-19.

## World Heritage in Hiroshima



(Photo of Itsukushima Shrine in Miyajima Island)



(Photo of O-Torii (Grand Torii Gate) of Miyajima and a cruise ship for our Conference Dinner)