

ICSMA 20

June 2nd – 6th, 2025

Venue: Kyoto International Conference Center, Kyoto, Japan

Introduction

With a 50-year tradition since 1967, ICSMA 20 provides a global platform for the latest advances in materials strength research. The conference covers a wide range of scientific topics, from fundamental issues in materials deformation to applications of engineering materials. With a focus on metals, alloys, composites, biomedical materials, and emerging materials, ICSMA 20 seeks to deepen our understanding of the processes that govern material strength at various scales of length and time. The conference will be held in Kyoto, an ancient capital and cultural center of Japan. Join us at ICSMA 20 to shape the future of materials strength research through collaboration and innovation.

Important dates

- **Abstract submission: November 15th, 2024**
- Notification of acceptance: Late December 2024
- Early bird registration: April 2025 (Tentative)

Plenary speakers

- Allison Michelle Beese
Pennsylvania State University, USA
- Guillaume Laplanche
Ruhr-Universität Bochum, Germany
- Sandra Korte Kerzel
RWTH Aachen University, Germany
- Xavier Sauvage
Université de Rouen, France
- Shigenobu Ogata
Osaka University, Japan
- Praveen Kumar
Indian Institute of Science, Bangalore, India
- Xiaoxu Huang
Chongqing University, China
- Astrid Pundt
Karlsruher Institut für Technologie, Germany

Topics

- Elementary deformation mechanisms
- Advanced characterization of deformation processes
- Mechanical behavior of high entropy alloys
- Micro- and nano-scale mechanical testing
- Effects of grain boundaries and interfaces
- Mechanical behavior associated with phase transformations
- Fracture and fatigue
- High temperature deformation and creep
- Mechanistic foundations for multiscale modeling
- Strength of additive-manufactured materials
- Materials under extreme conditions
- Mechanics of composite materials
- Strength of biomedical and bio-inspired materials
- Glasses and non-crystalline solids
- Mechanical behavior of heterogeneous materials
- Effects of hydrogen
- Others

*These topics are tentative and subject to change in the final program. Presentations on other topics suitable to ICSMA are welcome.

Conference venue

Kyoto International Conference Center

URL: <https://www.icckyo.or.jp/en/>

422 Iwakura Osagicho, Sakyo Ward, Kyoto, Japan
606-0001



The 20th International Conference on Strength of Materials (ICSMA20)

June 2nd – 6th, 2025, Kyoto, Japan

Chairpersons

Chair: Nobuhiro Tsuji,
Kyoto University, Japan

Vice chair: Masaki Tanaka,
Kyushu University, Japan

Vice chair: Tomotsugu Shimokawa,
Kanazawa University, Japan

International committee

- Marc Legros, France - Chair
- Irene Beyerlein, USA
- Andrea Hodge, USA
- Easo George, USA
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- Lei Lu, China
- Erica Lilleodden, Germany
- Christoph Kirchlechner, Germany
- Lazlo Toth, France
- Hyoung Seop Kim, Korea

ICSMA20 is under the supervision of the ICSMA international scientific committee for all strategic issues of the conference.

Supported by

This conference is supported by Japan Institute of Metals and Materials (JIMM) as JIMIC-9.



History of ICSMA

1967	ICSMA 1	Tokyo, Japan
1970	ICSMA 2	Asilomar, USA
1973	ICSMA 3	Cambridge, UK
1976	ICSMA 4	Nancy, France
1979	ICSMA 5	Aachen, Germany
1982	ICSMA 6	Melbourne, Australia
1985	ICSMA 7	Montreal, Canada
1988	ICSMA 8	Tampere, Finland
1991	ICSMA 9	Haifa, Israel
1994	ICSMA 10	Sendai, Japan
1997	ICSMA 11	Prague, Czech Republic
2000	ICSMA 12	Asilomar, USA
2003	ICSMA 13	Budapest, Hungary
2006	ICSMA 14	Xi'an, China
2009	ICSMA 15	Dresden, Germany
2012	ICSMA 16	Bangalore, India
2015	ICSMA 17	Brno, Czech Republic
2018	ICSMA 18	Ohio, USA
2022	ICSMA 19	Metz, France

Access to Kyoto

The following routes are the main options to get to Kyoto (Japan Railways (JR) train station) from international airports in Japan.

From Osaka

1. Osaka-Kansai International Airport (KIX)

75 min by JR Haruka Airport Express

2. Osaka-Itami International Airport (ITM)

60 min by Airport Limousine Bus

From Tokyo

3. Tokyo-Narita International Airport (NTA)

60 min by Narita Express Train to Tokyo and change train to JR Shinkansen (bullet train) (Total 3.5h)

4. Tokyo-Haneda International Airport (HND)

15 min by local train (Keikyu line) to Shinagawa and change train to JR Shinkansen (bullet train) (Total 3.0h)

From JR Kyoto station, it takes 20min by the Kyoto city subway (Karasuma line) to the conference venue.

Website

More details can be found in our website

URL: <http://www.icsma20.com>