

ICAS 2022

The 7th International Conference on Advanced Steels
May 29 - June 1, 2022 in Tsukuba, Japan

Welcome message

It is our great pleasure to announce 7th International Conference on Advanced Steels (ICAS 2022) to be held in Tsukuba, Japan from May 29th to June 1st in 2022.

A series of ICAS was launched in Tsukuba 2002 with aiming to exchange an updated scientific knowledge in steel science and network with world-leading researchers in the community in order to make great contributions to the global issue on safety, security, and sustainability. The R&D activities in the field have leading approaches including advanced microstructural design, cutting-edge tools of characterization, and multi-scale simulation/modeling. The high quality scientific programs of various topics will be organized into three symposia covering **Microstructural analysis and control, Mechanical properties, and Long term degradation.**

This is the second event in Tsukuba subsequent to the first meeting two decades ago. We organizers do welcome all of you and hope to have another great opportunity.

Takahito Ohmura, Conference Chair

Symposia

- 1. Microstructural analysis and control (Chair: Goro Miyamoto)**
phase transformation, precipitation, recrystallization, grain growth, simulation of microstructural evolution, cutting-edge analytical approach, martensitic/bainitic steels, dual phase steels, austenitic steels
- 2. Mechanical properties (Chair: Toshihiro Tsuchiyama)**
elastic/plastic deformation, yield/ultimate strength, ductility, workability and formability, stress corrosion cracking, simulation and modeling of strengthening mechanism
- 3. Long term degradation (Chair: Kota Sawada)**
ferritic/austenitic heat-resistant steel, creep, fatigue, hydrogen embrittlement, corrosion, lifetime estimation, damage evaluation

Committee

Conference Chair : Takahito Ohmura (NIMS)

General Secretaries : Toshihiro Tsuchiyama (Kyushu Univ.)
Goro Miyamoto (Tohoku Univ.)
Nobuo Nakada (Tokyo Inst. Tech.)
Kota Sawada (NIMS)



ICAS2022 Official website ▶ <https://icas2022.jp/>

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Organized by:
The Iron and Steel Institute of Japan (ISIJ)



Co Organized by:
National Institute for Materials Science (NIMS)