

Scope of the Symposium

Although ceramics were anciently invented, the science and technology of ceramics are advancing rapidly, leading into new fields far beyond the conventional image of ceramics. Careful tailoring of micro- and nano-structures, in particular, is yielding superior mechanical, chemical, and electrical properties. Engineering structural and functional ceramics are expected to find uses as key components in a variety of industrial applications, from engines with high efficiency long-term durability to devices to maintain clean environments. Our cornerstone symposium will discuss on the advanced monolithic and composite ceramic materials for wide-ranged applications.

Japan Society for the Promotion of Science (JSPS) 124th Committee on Advanced Ceramics has been conducting a series of International Symposium on Advanced Ceramics (ISAC). Following the first symposium at Kurume, Japan in 1997 (ISAC-1), the second symposium at Shanghai, China in 2002 (ISAC-2), the third symposium at Singapore in 2006 (ISAC-3), the fourth symposium at Osaka, Japan in 2010 (ISAC-4), and the fifth symposium at Wuhan, China (ISAC-5). This time, ISAC-6 is going to be held in conjunction with the 7th Asia-Oceania Ceramic Federation Conference (AOCF-7) and ThinFilms Workshop 2018.

Since materials science is interdisciplinary research field, it is excellent for ISAC-6 to be held with the AOCF-7 and ThinFilms Workshop 2018. We sincerely wish to provide opportunity for cross-linking of various fields of materials science and engineering.

Main Topics

- Mechanical properties of ceramics, composites and porous materials
- Coatings to resist wear, erosion and tribological loadings
- Fiber, matrices and interfaces, CMCs
- Transparent ceramics
- Ultra high-temperature ceramics and ternary compounds
- Tribological behaviors
- Heat and corrosion resistances
- Thermal and environmental barrier coatings
- Processing - microstructure - mechanical properties relations
- Joining and machining of ceramics and composites
- Functionally graded materials and systems
- Mechanics and characterization techniques

Website

For the up-to-date information, please visit the ISAC-6 website. <http://www.isac-6.imr.tohoku.ac.jp/>

Keynote Lectures and Invited Talks

Outstanding lectures and talks which encompass various fields of advanced engineering ceramics and composites are planning. The speakers are internationally invited from several countries. Detail will be given on the website.

Call for Papers

Abstract Submission

Contributors are requested to submit an abstract. Accepted papers will be presented in either oral or poster sessions. The abstract must be received by **November 10, 2017 (JST)**. It will be reviewed by the symposium organizers and the notification of acceptance will be sent to the authors by the end of November, 2017.

Publications for ISAC-6

After normal peer review, selected full papers of ISAC-6 will be published as a special volume in *Materials Today: Proceedings* (Elsevier, tentative) as a series book of the CSJ Series.

For instructions and abstract and manuscript submission, please visit the ISAC-6 website. Online submission system will be available.

Conference Language

English is the official language of the symposium. As such, all abstracts, manuscripts as well as posters should be prepared and presented in English.

Supporting Organizations (tentative)

The Japan Society for the Promotion of Science (JSPS)
Institute for Materials Research, Tohoku University (ICC-IMR)
The Ceramic Society of Japan (CSJ)
The Japan Institute of Metals and Materials (JIM)
The Japan Society of Powder and Powder Metallurgy (JSPM)

Important dates (tentative)

Abstract submission:	10 Oct., 2017
Acceptance notice:	End of Oct.
Early-bird registration:	8 Dec.
Accommodation reservation:	15 Dec.
Manuscript for publication:	15 Mar., 2018
Publication:	Summer in 2018

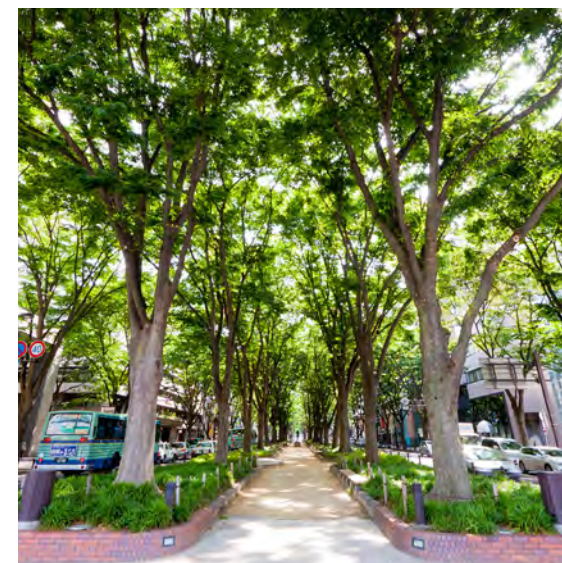
1st ANNOUNCEMENT
AND CALL FOR PAPERS

The 6th International Symposium on Advanced Ceramics (ISAC-6)

March 12–14, 2018

Katahira Sakura Hall, Tohoku University, Japan

Held in conjunction with
the 7th Asia-Oceania Ceramic Federation Conference (AOCF-7)
and ThinFilms Workshop 2018



Organized by
the Japan Society for the Promotion of Science (JSPS)
124th Committee on Advanced Ceramics



6th International Symposium on Advanced Ceramics (ISAC-6)

March 12–14, 2018
Katahira Sakura Hall,
Tohoku University, Sendai, Japan

Held in conjunction with
the 7th Asia-Oceania Ceramic Federation Conference (AOCF-7)
 and **ThinFilms Workshop 2018**

Organized by
 the Japan Society for the Promotion of Science (JSPS)
 the 124th Committee on Advanced Ceramics

Organizing Committee

Chair

Toyohiko Yano (Tokyo Tech, Japan)

Co-chair

Takashi Goto (Tohoku Univ., Japan)

Members

Takashi Akatsu (Saga Univ., Japan)
 Satoru Hamano (Kyocera Corp., Japan)
 Yuji Hotta (AIST, Japan)
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 Yoshio Sakka (NIMS, Japan)
 Yoshiyuki Sugahara (Waseda Univ., Japan)
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Program Committee

Takashi Goto (Tohoku Univ., Japan)
 Akihiko Ito (Yokohama National Univ., Japan)

Local Committee

Chair

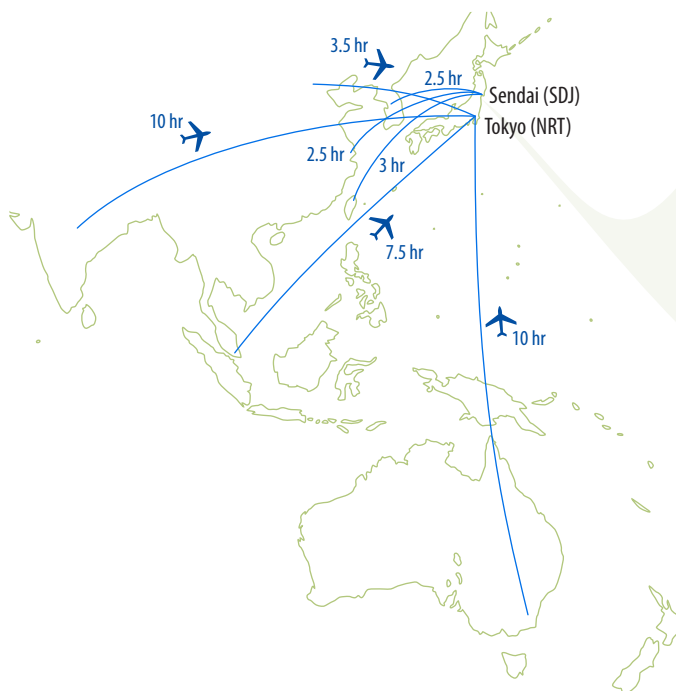
Takashi Goto (Tohoku Univ., Japan)

Members

Masato Kakihana (Tohoku Univ., Japan)
 Hirokazu Katsui (Tohoku Univ., Japan)
 Hirotugu Takizawa (Tohoku Univ., Japan)
 Hideaki Matsubara (Tohoku Univ., Japan)
 Hisanori Yamane (Tohoku Univ., Japan)

Social Events (tentative)

A welcome reception is scheduled in the evening of March 11. A banquet in the evening and excursion are also planned during the period.



Registration Fee (tentative)

	Advanced fees on or before Dec. 8, 2017	On-site fees after Dec. 8, 2017
Member *	50,000 JPY	55,000 JPY
Non-member	55,000 JPY	60,000 JPY
Student **	15,000 JPY	15,000 JPY

* Members of ICF affiliated societies and the JSPS 124th committee

** Registrant must provide student I.D.

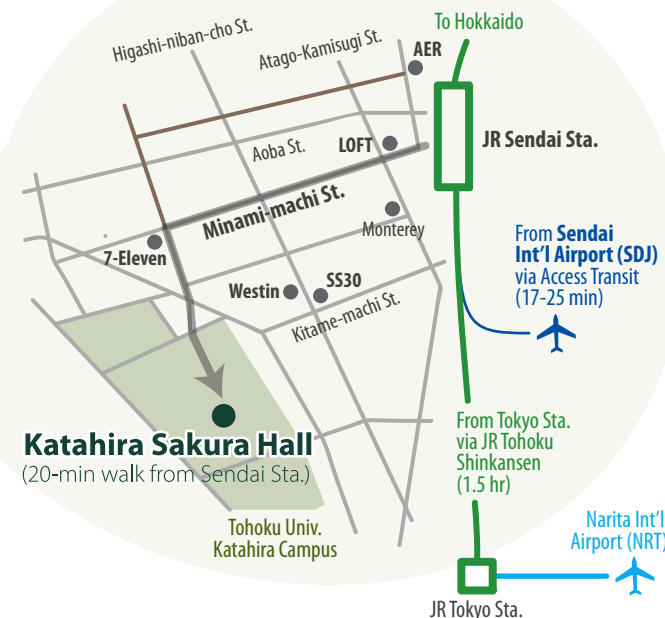
Note: Registration does not include banquet fee.

Location

Sendai is the center city in the Tohoku region and is directly connected with Tokyo by the JR Tohoku Shinkansen. The city was founded 400 years ago and is nicknamed the City of Trees.



Map of Sendai City



Some Photos Courtesy of Sendai Tourism, Convention and International Association