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N. Ohashi NIMS

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Dept. Innovative and Eng. Mater. Tokyo Tech.  
H. Funakubo  
Nat. Inst. Mater. Sci.  
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T. Ohnishi, H. Segawa, T. Uchikoshi, T.S. Suzuki, H. Yoshida,  
Y. Oshima, T. Nishimura

**The Sixth International Conference  
on the Science and Technology for  
Advanced Ceramics:**

Cutting edge of ceramic research is rapidly expanding and advancing, being far beyond the traditional scope of ceramics. The primary driving forces for such advance researches are society's needs, such as to realize safe society, and researchers' desire of "want to create a dream material toward bright future." The main materials of ceramics are oxides, which are the main constituents of the earth's crust. They are abundant in resource, benign for environment, and have many unique properties, which are not seen in conventional semiconductors and in organic materials.

The first conference STAC-1 was held in 2006 in Shonan, Japan, organized by Materials and Structures Laboratory of Tokyo Institute of Technology (MSL). After then, MSL, Division of Ceramics Science, Tokyo Institute of Technology and National Institute for Materials Science (NIMS) have organized the series of STAC conferences. This is the sixth conference, and will be accompanied by special sessions of "Ubiquitous Element Strategy for Innovative Materials" and "Electric Current Assisted Sintering".

The program will feature plenary and invited talks, contributed oral and poster presentations, and a banquet. Anybody interested in the following areas is welcome to participate.

**YOKOHAMA**

is the second largest population city in the Tokyo Metropolitan area. It is famous for the beautiful bay scenery, the largest china town in Japan, and so on. It also has a long history since the Kamakura era in the late 11th century and is close to the historical place Kamakura. It is located approx. 30 km south of central Tokyo, taking approx. 50 minutes from Tokyo station by train.



**Climate / Weather**

Mid June is the beginning of summer and temperatures may vary from 20 to 30 degrees Celsius. It is nice to walk along the bay side. However, as this is just before the rainy season, participants are advised to prepare for wet weather.

**Passport and VISAs**

It is the responsibility of participants to prepare for appropriate passport and visas to enter Japan. Please consult your travel agency or your local Japanese Embassy/Consulate. If you need a personal invitation, please contact the organizing committee members.

**Insurance**

All participants are advised to obtain necessary insurances for personal accidents, sickness, theft, property damage or loss.

**Address of the conference site**

Mielparque-Yokohama  
16, Yamashita-chou,  
Naka-ku, Yokohama JAPAN 231-0023  
TEL +81-45-662-2221 FAX +81-45-662-9919  
<http://www.mielparque.jp/ykh/eng.html>

**CONFERENCE TOPICS**

- **Structural Materials**  
*Reliability, Fracture, Creep, Deformation, Sustainable Materials and Systems, Smart Materials, Advanced Composites, etc.*
- **Powder Processing**  
*Nanoparticles EPD, etc.*
- **Opto and Electro ceramics**  
*Semiconductors, Dielectrics (high-k, ferroelectrics), Magnetic Oxides, Multi-Ferroids, High-Tc Superconductors, Thin Films, etc.*
- **Glass and Optics**  
*Glass, amorphous, photonics materials, etc.*
- **Characterization and Analysis**  
*Fast dynamics, Scanning probe technique, Transmission Electron Microscopy, Nanoindentation, SR, Computer simulation, Theory, etc.*
- **Bio materials**  
*biointerface, micro/nano structures, biodevices*
- **Environment and Energy Materials**  
*Batteries, Catalyst, Ecomaterials, etc.*
- **Carbon and Related Materials**  
*Graphene, Carbon Nanotube, Fullerenes, Diamond, B-C-N-O system, etc.*

**SPECIAL SESSION**

- **Ubiquitous Element Strategy for Innovative Materials**
- **Electric Current Assisted sintering**  
SPS, Mili-wave sintering

**NUMBER OF PRESENTATIONS (approximate)**

Invited (30 min) 25  
Oral (15 min) 60  
Poster 100



**The 6th International Conference  
on the Science and Technology for  
Advanced Ceramics (STAC-6)**

June 26 - 28, 2012  
Mielparque-Yokohama (Kanagawa), Japan  
<http://stac6.jp>



**Co-Sponsored by**

- Div. Ceramics Science, Tokyo Institute of Technology
- Frontier Research Center, Tokyo Institute of Technology
- National Institute for Materials Science

**Contact: Conference Secretary, Dr. T. Nishimura**

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**IMPORTANT DATES (tentative)**

Abstract Submission	March 10, 2012
Acceptance notice	By end of April, 2012
Registration	May 7, 2012-
Accommodation reservation	By individual participants

**ABSTRACT (Submission deadline: Mar., 10, 2012).**

Abstracts will form the basis for selecting papers for presentation at the conference. Each abstract must state clearly the purpose and specific results of the work. Lack of such descriptions may cause rejection of a paper.

Instructions for abstract preparation and submission will be provided on our web page. All abstracts will be reviewed by the members of the Program Committee on the basis of scientific and technical novelty and importance. Acceptance of the papers will be informed by e-mail with the decision of presentation style. A few papers may be selected for special invited talks.

**PROCEEDINGS**

Authors of accepted papers are encouraged to submit proceedings. Instructions for manuscript preparation will be provided on our web page.

The proceedings will be published as a special issue of a scientific journal after a standard peer review process and a decision of acceptance by the Editorial board.

**GENERAL INFORMATION**

Further information is available at

<http://stac6.jp>

Other information requests should be referred to T.

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