

## Invitation

The Organizing Committee cordially invites you to participate in The Sixth Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT6) and The Fifth Asia Pacific Congress on Catalysis (APCAT5) to be held as a joint conference from July 18 to 23, 2010 in Sapporo, Japan. Catalysis Society of Japan will organize this meeting as a continuation of TOCAT conferences. The past five TOCAT conferences in Tokyo have earned a good reputation as a new series of international conferences on catalysis that has significantly filled the gap between research and technology in catalysis. The past APCAT events were held in four countries to provide opportunities for researchers from the Asia Pacific region to discuss current developments in catalysis.

## Scope of the Conference

Stimulating closer ties between academia and industry and encouraging young researchers in the field of catalysis are the central concept of both conferences. This joint conference will greatly contribute to exchanging new ideas and technologies in catalysis. Also this conference will promote developments of new outstanding catalysts under the scope that catalysis is a highly demanded technology for sustainable society and drives innovation in many other fields. Papers on the following topics are welcome.

### General session:

- New concepts for catalysis
- Advanced materials for catalysis
- Fundamentals and characterization
- Catalysis for green/sustainable chemistry
- Catalysis in energy conversion
- Biocatalysis
- Photocatalysis
- Solid acids and bases
- Selective oxidation
- Homogeneous/Organometallic catalysis
- Reactor engineering

### Industrial session:

- Introduction of recently developed and/or commercialized industrial catalysts and processes
- Environmental protection
- Petroleum refining and petrochemicals
- Fine and chiral synthesis
- Polymerization

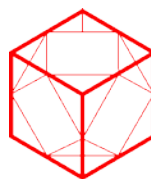
# TOCAT6/APCAT5 2010

## Sixth Tokyo Conference on Advanced Catalytic Science and Technology & Fifth Asia Pacific Congress on Catalysis

July 18 - 23, 2010

Sapporo Convention Center  
Higashi-Sapporo 6-jo 1-chome,  
Shiroishi-ku, Sapporo 003-0006,  
Japan

“Innovation driven by catalysis”



2<sup>nd</sup> Circular/Call for Papers

Organized by Catalysis Society of Japan  
<http://www.shokubai.org/intern/tocat/>

### Youth session:

Youth session will be held as a part of APCAT for young scientists and students who were born on January 1<sup>st</sup>, 1975 or later. The session will include oral and poster presentations, and Best Presentation (or Poster) Award will be given among the presentations. Further information will be shown on our website.

## Scientific Program

The scientific program will consist of plenary lectures for overall sessions, invited lectures for parallel sessions, oral presentations for each session and posters. Plenary Lectures are listed below.

**Prof. Kazunari Domen** (University of Tokyo)

*“Toward a Large Scale Solar Fuel Production Based on Photocatalytic Materials”*

**Prof. Charles T. Campbell** (University of Washington)

*“Surface Science Studies in Catalysis: Mechanisms, Microkinetics, Thermodynamics, and Materials”*

**Prof. Noritaka Mizuno** (University of Tokyo)

*“Molecular Design of Polyoxometalate-Based Compounds for Environmentally-Friendly Functional Group Transformations -From Molecular Catalysts to Heterogeneous Catalysts-”*

**Prof. Johannes Lercher** (Technical University Munich)

*“Hydrocarbon Transport, Activation and Catalytic Conversion in Confined Space”*

**Dr. Terunori Fujita** (Mitsui Chemicals, Inc.)

*“Development of New Olefin Polymerization Catalysts and Their Applications to Novel Olefin-based Materials”*

**Prof. Jean-Marie Basset** (CPE Lyon)

*“Single Site Catalysts via Surface Organometallic Chemistry: A Predictive Approach of Heterogeneous Catalysis?”*

**Dr. M. Lakshmi Kantam** (Indian Institute of Chemical Technology)

*“Recent Developments on Catalytic Applications of Nano-Crystalline Metal Oxides”*

**Prof. Yoshihito Watanabe** (Nagoya University)

*“Construction of Metalloenzymes: New Approach for the Preparation of Catalytic Systems”*

## Abstracts

Those who wish to present paper in the sessions are requested to submit a short abstract (A4 size, half page) and an extended abstract (A4 size, 2 pages). The format of the abstracts will be shown on our website in due course. Desirable mode of presentation (oral or poster) should be indicated at the upper right corner of the first page. Selection of paper and the mode of presentation will be decided by the Organizing Committee based on the extended abstracts. The short abstracts will be printed in a brochure, and the extended ones in a CD. The abstracts must be received on our website by December 25, 2009. Notice of acceptance will be sent by the Organizing Committee to the authors by February 28, 2010. The detailed information of the submission will be announced on the website.

## Publication

The contributors will be invited to submit a paper to *Catalysis Today* appearing in a special issue devoted to the Conference. The manuscripts should be submitted on line through the website. All manuscripts will be peer reviewed following a standard procedure and the acceptance will be decided by the Editors.

## Registration Fee

Advance Registration (by May 31, 2010)

Participant	60,000 JPY
Students	10,000 JPY

Late Registration (after May 31, 2010)

Participant	70,000 JPY
Students	12,000 JPY

## Pre-conferences

A pre-conference will be held in Sapporo, at Catalysis Research Center, Hokkaido University. Another pre-conference will also be held in Tokyo.

## Organizing Committee

**Chairmen (TOCAT/APCAT):** W. Ueda (Hokkaido Univ.) / M. Iwamoto (Tokyo Tech)

**Vice-chairmen (TOCAT/APCAT):** K. Eguchi (Kyoto Univ.) / H. Yamashita (Osaka Univ.)

**Secretary:** A. Fukuoka (Hokkaido Univ.)

**Treasurer:** B. Ohtani (Hokkaido Univ.)

**Local Arrangement:** Y. Kamiya (Hokkaido Univ.), K. Hara (Hokkaido Univ.), R. Abe (Hokkaido Univ.), F. Amano (Hokkaido Univ.), H. Kobayashi (Hokkaido Univ.)

**Program & Publication:** M. Akita (Tokyo Tech), K. Asakura (Hokkaido Univ.), T. Ishihara (Kyushu Univ.), M. Matsukata (Waseda Univ.), S. Nakamura (Tokyo Tech), A. Satsuma (Nagoya Univ., APCAT)

**Industrial:** T. Atoguchi (UBE Industries), T. Aoki (Asahi Kasei Chemicals), M. Hatano (Nissan Motor Co., Ltd.), S. Hatanaka (Nippon Oil Corporation), K. Tsuji (Showa Denko K.K.), T. Setoyama (Mitsubishi Chemical Corporation), H. Shinjoh (Toyota Central R&D Labs., Inc.)

**Website:** A. Muramatsu (Tohoku Univ.)

## Correspondence

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URL: <http://www.shokubai.org/intern/tocat/>

## Key Dates

Deadline for extended abstracts	December 25, 2009
Notice of acceptance of papers	February 28, 2010
Distribution of final circular	March 31, 2010

