

Pre- & Post-symposia

Pre-symposia

- **Creation and Control of Advanced Selective Catalysis**
(In celebration of the 50th anniversary of the Catalysis Society of Japan)

Kyoto, Japan, July 9-11, 2008 (Organizer: Prof. Y. Iwasawa)
<http://www.shokubai.org>

- **Nanocatalysis: Fundamentals and Applications**

Dalian, China, July 9-11, 2008 (Organizer: Prof. C. Li)
canli@dicp.ac.cn

- **Hydrocarbon Selective Oxidation and Syngas Conversion Catalysis**

Xiamen, China, July 9-11, 2008 (Organizer: Prof. Y. Wang)
yewang@xmu.edu.cn

Post-symposia

- **Catalysis for Hydrogen Energy Production and Utilization**

Gyeongju, Korea, July 20-22, 2008 (Organizer: Prof. J.S. Lee)
jlee@postech.ac.kr

- **First International Combinatorial Catalysis Symposium**

Daejeon, Korea, July 20-22, 2008 (Organizer: Prof. S.I. Woo)
<http://www.iccs2008.org> / siwoo@kaist.ac.kr

- **International Symposium on Catalysis for Ultra Clean Fuels**

Dalian, China, July 21-24, 2008 (Organizer: Prof. C. Song)
csong@psu.edu



Organizing Committee

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Correspondence

Please refer to the official website
www.icc2008korea.com, and

For scientific contents

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Key Dates

- **Start of Abstract Submission:**
July 1, 2007
- **Deadline for Abstract Submission:**
October 31, 2007
- **Notice of Acceptance:**
February 29, 2008
- **Deadline for Early Registration with Discount:**
April 15, 2008
- **Deadline for Regular Registration without Extra On-Site Charge:**
July 5, 2008
- **Congress begins:**
July 13, 2008



COEX Convention Center



14th INTERNATIONAL CONGRESS ON CATALYSIS

July 13-18, 2008
COEX, Seoul, Korea

Second Circular / Call for Papers

Catalysis as the Pivotal Technology
for the Future Society



Organized by the Catalysis Division of the KICHe

www.icc2008korea.com



14th INTERNATIONAL CONGRESS ON CATALYSIS

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More will be added.

Invitation

The Organizing Committee cordially invites you to participate in the 14th International Congress on Catalysis to be held in Seoul, Korea from 13th to 18th of July, 2008, under the auspices of the International Association of Catalysis Societies and the Korean Institute of Chemical Engineers. The Congress will continue its established role of providing participants with information about accomplishments in catalysis research and catalytic technologies required for the sustainable development of the future society.

Scope of the Congress

1. Innovations in catalyst design

- Catalyst preparation: molecular design of catalysts, catalyst screening by high throughput system, immobilization of homogeneous/enzymatic active centers
- Novel catalytic materials
- Development in catalyst characterization techniques: new methods and improvements in the analysis of physicochemical properties

2. New findings in reaction mechanism

- Surface science of molecular level mechanism
- Kinetics, modeling, and computational analysis
- Theoretical and quantum mechanical approaches in catalysis
- New supporting ideas from related scientific disciplines
- Understanding of catalysis on nanoscale

3. Advances in catalytic reaction engineering

- New reactor design including membrane and multiphase reactors
- Micro-reactor design and process design
- Reactions in non-conventional media (supercritical, ionic liquids)

4. Catalysis in energy/fuel production

- New trends in refining/petrochemical processes
- Hydrogen production and utilization
- Fuel cell and electrocatalysis
- Methane/natural gas conversion processes
- Clean fuels for diesel engine
- Energy conversion from alternative sources

5. Catalysis for fine chemicals/industrial chemicals production

- Diverse organic transformations catalyzed by acid/base or transition metal complexes/compounds in liquid/gas/solid phase
- Chiral synthesis using homogeneous/heterogeneous/enzyme catalysts
- Selective oxidation and oxidative dehydrogenation
- Multi-phase synthesis of organic intermediates
- Polymerization
- Deactivation and regeneration

6. Sustainable green catalysis

- Air/water pollution control by catalytic methods
- Reduction in global warming agents
- Catalytic combustion
- Environmentally benign catalytic processes for chemical industry
- Photocatalysis

Industrial Technology Session & Exhibition

Industrial Technology Session will be organized as a special program integrated with poster presentations and industrial exhibitions to promote the academia-industry collaboration. Recently developed catalysts and catalytic processes will be introduced in the Session by lecturers invited from industries and additionally explained in the poster and exhibition programs. Arrangements will be made to promote interactions among participants from academy and industry such that their interests can develop into collaborative works. Industrial companies are encouraged to contact Prof. S.-E. Park (separk@inha.ac.kr) for presentations in the Session and for booth exhibitions. Details of booth exhibitions are available on the Congress website, www.icc2008korea.com.

Congress Format

The scientific program of the Congress will consist of 6 plenary lectures, 13 keynote lectures, about 200 oral presentations and estimated 600 posters. Keynote lectures and oral presentations will be organized in four parallel sessions. Poster presentations will be grouped by topical sessions.

Plenary Lecturers

Eminent plenary lecturers will introduce each topical session.

1. **Professor R.R. Schrock** (Nobel Laureate), MIT, USA
2. **Professor J.A. Dumesic**, Univ. of Wisconsin-Madison, USA
3. **Professor T. Tatsumi**, Tokyo Inst. of Technology, Japan
4. **Professor J.K. Nørskov**, TU of Denmark, Denmark
5. **Professor R. Prins**, ETH Zürich, Switzerland
6. Plenary lecturer from industry will be decided soon.

Call for Abstracts

All authors (both general and industrial sessions) are requested to submit a 2-page extended abstract including figures and tables as well as a half-page short abstract in the form of an electronic file (MS Word or PDF). Abstract submission will be possible from July 1, 2007 and should be completed by October 31, 2007. Abstract templates will be available at Congress website, www.icc2008korea.com. All submitted abstracts will be reviewed by an international panel of experts. Selection of abstracts and their mode of presentation will be decided by the Scientific Committee based on the review results. Notice of acceptance will be sent to the author by February 29, 2008.

Proceedings

The extended abstracts of both oral and poster presentations will be uploaded on the Congress website 1 month prior to the opening of the Congress. A book of short abstracts of all accepted contributions will be distributed at the Congress. A CD ROM of the extended abstracts of all presentations including discussions of oral presentations will be mailed to registered participants after the Congress. The plenary and award lectures will be published in *Catalysis Reviews*.

Conference Venue

The Convention and Exhibition Center (COEX), located in a vibrant business district of Seoul, is the venue for the Congress. The COEX has 3 exhibition and 5 convention halls including a large auditorium and a number of meeting rooms. Deluxe hotels (COEX Inter-Continental Seoul and Grand Inter-Continental Seoul) are within easy walking distance, while a number of other hotels can be reached within 10 minutes by bus or subway from the venue. The venue also has easy subway access, and taxis and buses are readily available. Furthermore, the Korea City Air Terminal, conveniently located within the complex, offers a non-stop limousine bus service to and from Incheon International Airport. More information can be found at www.coex.co.kr.

Registration & Accommodation

Registration will be open on the website from September 1, 2007. Participants are encouraged to register for the Congress as early as possible to take the advantage of the registration fee discount.

- Early registration with discount (by April 15, 2008)
Standard US\$ 500 / Retired US\$ 300 / Student US\$ 200
- Regular registration (April 16 - July 5, 2008)
Standard US\$ 550 / Retired US\$ 350 / Student US\$ 250
- On-site registration with US\$ 50 extra charge (July 6 - July 13, 2008)
Standard US\$ 600 / Retired US\$ 400 / Students US\$ 300
- Please note that registration from July 6 will be regarded as on-site.
- One-day registration
Standard US\$ 250 / Retired US\$ 150 / Student US\$ 100
- Spouse/Guest US\$ 150
- Congress banquet US\$ 90

Many accommodations of various standards will be available at special Congress rates. Please check the Congress website for more information.

Social Events & Accompanying Persons' Program

All registered participants and accompanying persons are invited to join the welcome reception on July 13, 2008. The Organizing Committee will provide participants and accompanying persons with various exciting social events to introduce the traditional and contemporary culture of Korea. Detailed information on social events and accompanying persons' program will be posted on the website.

Letter of Invitation

The Organizing Committee will be pleased to send a letter of invitation to registered participants upon request. It should be understood that such a letter is only intended to help participants to obtain a visa or to raise travel funds and is not a commitment on the part of the organizers to provide any financial support.

Prizes

The Council of the International Association of Catalysis Societies (IACS) will award a number of prizes to young scientists (not older than 35) in the 14th ICC. A special committee will select the winners on the basis of scientific quality of extended abstracts submitted. The authors of abstracts must make clear that the person competing for the prize is the main author, fulfils the age requirement and will present the contribution orally or as a poster. Prize will consist of a certificate and a reimbursement of the registration fee of the Congress. Please apply for it when you register.

The Organizing Committee of the 14th ICC will also independently provide partial financial supports to scholars from developing countries and limited number of students after evaluation of their needs. Those intending to apply for the financial support should write to Professor J.S. Lee (jlee@postech.ac.kr) from Nov. 15 to Dec. 15, 2007.

