

## **IACS NewsLetter No. 8, 2008**

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## 1) Message of the President by Prof. Alexis T. Bell

The most exciting news for the catalysis community last year was the announcement that Professor Gerhard Ertl had been selected to receive the 2007 Nobel Prize for Chemistry. This is fitting recognition of his extensive studies on the fundamentals of surface science and their application to catalysis. His elegant work has shown that catalysis can be understood on the basis of scientific principles, and has helped lay the path for not only the interpretation of catalyst activity and selectivity but also the prediction of catalyst performance as affected by changes in catalyst composition and structure.

Plans for the 14<sup>th</sup> ICC are progressing well, and I am confident that we can all look forward to a superb technical program when we meet in Seoul this summer, July 13 - 18. I strongly recommend that you encourage everyone to register early for the Congress and make their travel plans accordingly.

Several symposia are being planned for the period immediately before and after the 14<sup>th</sup> ICC. The titles, locations, and dates of these symposia are as follows:

- ICC 14 Pre-Symposium (Creation and Control of Advanced Selective Catalysts) – July 8-12, Kyoto, Japan
- ICC 14 Pre-Symposium (Nanocatalysis: Fundamentals and Applications) – July 9-11, Dalian, China
- ICC 14 Pre-Symposium (Hydrocarbon Selective Oxidation and Syngas Conversion Catalysis) – July 9-11, Xiamen, China
  
- ICC 14 Post-Symposium (1st International Combinatorial Catalysis Symposium) – July 20-22, Daejeon, Korea
- ICC 14 Post-Symposium (Catalysis for Hydrogen Energy Production and Utilization) – July 20-22, Kyungju, Korea
- ICC 14 Post-Symposium (International Symposium on Catalysis for Ultra Clean Fuels) – July 21-24, Dalian, China
  
- ICC 14 Related Symposium (2008 KZA Nanoporous Materials Workshop) – July 19-20, Seoul, Korea

Details about each of these meetings can be found in Section 6.0 of this issue of the NewsLetter.

Finally, I would like to call to your attention the deadline for submitting bids to host the 15<sup>th</sup> ICC, which is to be held in 2012. Any catalysis society planning to submit a bid for the 15<sup>th</sup> ICC should do so by April 30. Guidelines on the content of the proposal can be found on the IACS web site.

Since this is the last IACS NewsLetter during my tenure as President of IACS, I would like to thank all of you for your support and help in planning for the 14<sup>th</sup> ICC. It has been an honor and a pleasure to serve IACS and I extend my best wishes for success to Dr. Can Li, who will become the next President of IACS.

## 2) IACS Executive Committee

According to the recommendations by the former Executive Committee, the Committee met once in 2007 during NACS (20<sup>th</sup> NAM). The date for the next IACS council meeting has been scheduled on July 13 during 14<sup>th</sup> ICC (Seoul, July 13-18, 2008) at the conference venue.

## 2.1) Minutes of Meeting at 20th NAM

**Date:** June 20, 2007

**Participants:** Armor (USA), Bell (USA), Conner, Jr (USA), Diaz (Mexico), Hargreaves (UK), Lercher (representing Germany), Lombardo (Argentina), Moon (Korea), Mul (Netherlands), Murzin (representing Europacat), Nam (Korea)

**Venue:** Hilton Hotel, Houston

### **Agenda:**

- Current Progress of the organization of 14<sup>th</sup> ICC in 2008 (Moon)
- ICC Awards (Bell)
- IACS leadership (Bell)
- Miscellaneous including Host country for 15<sup>th</sup> ICC (Bell and Nam)

### 2.1.1) Opening of the meeting

Nine council members and two national or regional representatives participated. It was the fourth day of the 20<sup>th</sup> NAM. The meeting was opened at noon by Prof. Bell, President of IACS. He welcomed the IACS Council and National or Regional representatives, attending the 20<sup>th</sup> NAM and was pleased to meet the participants. All the members introduced themselves and identified their affiliation.

### 2.1.2) Current progress of the organization of 14<sup>th</sup> ICC

The Chair person of 14<sup>th</sup> ICC, Prof. Sang Heup Moon (Korea), reported on the progress of the organization of the 14<sup>th</sup> ICC.

#### **- Scientific**

1) Each submitted abstract will be reviewed by two referees, which include the IACS council members. The members will also be consulted about grouping of the abstracts according to topical sessions.

2) It was suggested that website for abstract submission should be designed to request additional information about the abstracts such as the primary and secondary categories as suggested in the circular or defined by authors, person to make oral presentation, and the priority of selection when many abstracts are submitted from the same laboratory. The information will be helpful for the evaluation and grouping of submitted abstracts.

#### **- Program**

1) Considering 8 plenary lectures, including 2 award lectures, 5 instead of 4 oral sessions are recommended. A 20-minute slot, including 5 minutes for questions and answers, will be allotted to each oral presentation. Accepted 2-page abstracts will be posted on the website well in advance of the Congress period.

2) To accommodate many oral presentations in the Congress, one of plenary and award lectures, e.g., Heinemann award lecture, can be made in the evening of Sunday after welcoming reception.

3) Committee for the IACS student support will include one of the ICC organizing committee members to avoid students being supported by both IACS and ICC.

4) As catalyst societies are not allowed to disclose email addresses of their members to other organizations for a legal reason, the best way to disseminate the information of ICC is that the ICC sends the information to the IACS council members who will forward it to their members or post it on their society websites.

#### **- Finance**

1) The estimated amounts of fund to be raised besides the registration fee were about US\$ 300,000. The IACS council members promised to help the ICC organizing committee with fund raising particularly from companies outside Korea, targeting for the amounts of US\$ 100,000. For the above, Prof. Moon will send a list of sponsors and exhibitors of Paris ICC to Prof. Bell.

2) The ICC organizing committee will ask the Korea Science and Engineering Foundation (KOSEF) to send official letters to corresponding funding organizations of other countries requesting for the support of travel expenses to scholars participating in the ICC.

### **2.1.3) ICC Awards**

Prof. Bell mentioned the format of the award announcement including the procedures. The nomination of both awards, International Catalysis Award and Heinemann Award should be made before Jan. 15, 2008. All of the recommendation procedure will be conducted by electronic communication. Both recipients will be invited to give a plenary lecture on his/her contribution as part of ICC. Dr. Armor proposed the announcement should be posted in the website of ICC and informed to the Council. Prof. Hargreaves (UK) talked about the contribution period of each award and it should be described in the announcement. Prof. Lecher (Germany) mentioned that at least four scientists should recommend the awardees. Prof. Bell noted that the awardees will be reviewed by an ad-hoc committee composed of five to seven renowned scientists and engineers representing the area of the research and regions.

### **2.1.4) IACS Leadership**

Prof. Bell mentioned that Prof. Can Li, currently VP of IACS will be the next president of IACS right after 14<sup>th</sup> ICC. However, the officers including VP, secretary and treasurer will be recommended by the nomination committee and selected at the council meeting scheduled during 14<sup>th</sup> ICC. They can be also recommended to Prof. Bell by the council members.

### **2.1.5) Miscellaneous**

- **Hosting country for 15<sup>th</sup> ICC (Bell)**

Prof. Bell noted that the guideline for hosting 15<sup>th</sup> ICC will be announced soon in the website of IACS. The due date of the proposal for hosting 15<sup>th</sup> ICC is before April 30, 2008.

- **Financial support for promoting the participation of Young Scientists to ICC (Bell and Moon)**

Young scientists will be supported by both organizations, IACS and the Organizing Committee of 14<sup>th</sup> ICC. They will be selected by their contributions to ICC by the Organizing Committee of 14<sup>th</sup> ICC.

Since no further agenda were called forth, Prof. Bell closed the meeting at 1:30 p.m. and thanked all of the members for their active participation.

## **3) 14<sup>th</sup> ICC News**

*Sang Heup Moon, Chair Person of the Organizing Committee, sums up below the work carried out by the Organizing and Scientific Committees of ICC 14.*

### **3.1) Abstracts submitted to the Organizing Committee of 14<sup>th</sup> ICC**

More than 2,000 electronic submissions were received. 2,003 abstracts from 68 countries were distributed within six topical sessions and one industrial session, with an average of 64 % of demands for oral presentation.

Topical session	Title of the session	Abstract submitted	Demands for oral presentation	% oral demands
1	Innovations in catalyst design	479	314	66
2	New findings in reaction mechanism	244	189	77
3	Advances in catalytic reaction engineering	60	45	75
4	Catalysis in energy/fuel production	535	310	58
5	Catalysis for fine chemicals/industrial chemical production	330	194	59
6	Sustainable green catalysis	333	222	67
	Others (industrial session)	22	11	50
	Total	2,003	1,285	64

Due to the pressure for oral presentation and the high standard of most of the abstracts submitted, it was decided to increase the number of parallel oral sessions to 5 (instead of 4), keeping the time to 20 min (15 min presentation + 5 min discussion). Each abstract is under review by 2 referees, who were selected from reviewer pool (500 referees around the world). 288 oral communications will be accepted on the basis of reviewers' evaluation, which represents 22 % of the submissions for oral presentations. Similarly, the total number of posters will be increased up to 1,200 in order to reach a reasonable proportion of accepted to submitted presentations (ca. 75 %). The poster sessions will be organized in 3 one day sessions (3x400=1,200 posters). The poster presentations will be grouped by topical sessions.

### 3.2) Plenary and keynote lectures

As already announced in the Second Circular, the program of each day will be started by a plenary lecture and each topical session will be introduced by one or more keynote lectures.

#### Six plenary lectures

Prof. R.R. Schrock, MIT, USA  
 Prof. J.A. Dumesic, University of Wisconsin-Madison, USA  
 Prof. T. Tatsumi, Tokyo Institute of Technology, Japan  
 Prof. J.K. Nørskov, TU of Denmark, Denmark  
 Prof. R. Prins, ETH Zurich, Switzerland  
 Dr. P. van Berge, SASOL, South Africa

#### Eleven keynote lectures

Prof. M. Barteau, University of Delaware, USA  
 Prof. K. Domen, University of Tokyo, Japan  
 Dr. J. Holmgren, UOP, USA  
 Prof. G. Hutchings, University of Wales, UK  
 Prof. W. Kaminsky, University of Hamburg, Germany  
 Prof. H.H. Kung, Northwestern University, USA  
 Prof. J. Lercher, TU Munich, Germany  
 Dr. S.H. Oh, GM, USA  
 Prof. R. Ryoo, KAIST, Korea  
 Prof. R. Schloegl, Fritz-Haber-Institute, Germany  
 Prof. G.A. Somorjai, UC-Berkeley, USA

### 3.3) Program

The plenary lectures, the Heinemann Award lecture, and the International Catalysis Award lecture will be delivered in the main auditorium (1,100 seats) and one grand ballroom (600 seats). The audiences in the grand ballroom will hear the lectures through video screen. The 5 parallel sessions will take place in five rooms at the same level (total capacity ca. 1,800 seats). The scientific program will begin on Sunday (July 13) with a plenary lecture followed by welcome reception. It will finish on Friday (July 18) at 5 pm by the closing ceremony. Wednesday (July 16) afternoon will be free to allow the participants to enjoy Korea during Congress Tour. The Heinemann Award

and the International Catalysis Award ceremonies will take place in the main auditorium on Tuesday (July 15) and Friday (July 18), respectively.

### **3.4) Registration**

All the information is available on the web site (<http://www.icc2008korea.com>). Deadline for early and regular registrations are April 15 and July 5, respectively. Students and retired colleagues have benefit of reduced rate. One-day registration is also available.

### **3.5) Accommodation**

The Organizing Committee offers various selections of hotels around the conference site. Special discounted room rate will be offered exclusively to the congress participants. The hotel reservation will be made on a first-come, first-served basis and one night deposit must be guaranteed by a credit card in order to secure the reservation. All the information is available on the web site (<http://www.icc2008korea.com>).

### **3.6) Social Program**

All registered participants and accompanying persons are invited to join the welcome reception on July 13. There will be a congress banquet on July 17. Tickets for the banquet can be purchased as described on the web site (<http://www.icc2008korea.com>). The banquet is guaranteed to be a memorable event which will send everybody home satisfied and happy. Followed by a fine dinner, an acclaimed performance based on Korean traditional dance and other cultural heritage will be provided. All the participants and accompanying persons are welcomed to join the excursion on July 16 with free of charge. Congress Tour will be a visit to Korean Folk Village to experience the Korean traditional culture and spirit.

## **4) Introducing a Catalysis Society: Catalysis activities in China**

### **4.1) Establishment of New Committee of the Catalysis Society of China**

The New Committee of the Catalysis Society of China was set up in 2005. Prof. Can Li, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, was elected to the Chairman of the society, Prof. Baoning Zong, Research Institute of Petroleum Process, SINOPEC, Prof. Chungu Xia, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, and Prof. Ye Wang, Xiamen University were elected to the vice Chairmen. 75 members were recommended from national wide as the representatives of more than 50 universities, research institutes and industries around China. Prof. Qin Xin and Prof. Wenjie Shen serve as the secretary of the society. The long-standing secretariat is in the State Key Laboratory of Catalysts, Dalian Institute of Chemical Physics, Chinese Academy of Sciences.

### **4.2) The 13<sup>th</sup> National Congress on Catalysis of China held in September 2006**

The national congress on catalysis of China is organized biannually by the Catalysis Society of China. Recently, the 13<sup>th</sup> National Congress on Catalysis was held in Lanzhou, Sept. 17-21, 2006, organized by Lanzhou Institute of Chemical Physics and Chengdu Institute of Organic Chemistry, Chinese Academy of Sciences. More than 700 delegates participated in this congress.

The congress invited six plenary lectures including: (1) Innovation in Petroleum and Chemical Process (Prof. Enze Min, RIPP-SINOPEC); (2) Mechanisms of Deep Hydrodesulfurization and Hydrodenitrogenation (Prof. Roel Prins, ETH Zurich, Switzerland); (3) Preparation and Catalytic Performance of Au and Au-Ag Nanoparticle with Controlled Sizes (Prof. Zhongyuan Mou, Taiwan University); (4) New Research Trends in Zeolite Catalysts (Prof. Zi Gao, Fudan University); (5) Spontaneous Monolayer Dispersion and its Application in Heterogeneous Catalysis (Prof. Youchang Xie, Peking University); and (6) Methane Dehydroaromatization over Mo/zeolites Catalysts (Prof. Yide Xu, Dalian Institute of Chemical Physics, CAS). 25 keynote lectures were

arranged and the topics focused on recent progresses made in novel catalytic materials, structure characterization with new techniques, biocatalysts, environmental catalysis and so on. There are 145 oral presentations and about 660 posters which cover various topics of catalysis, such as catalyst preparation and characterization, reaction kinetics and mechanism, bio-catalysis, theoretical catalysis, photo-catalysis, electro-catalysis, C1 and light hydrocarbon chemistry, novel catalytic reaction and engineering, energy catalysis, environmental catalysis, oil and petroleum process, and catalysis for fine chemicals.

The conference summarizes the research developments achieved by Chinese catalysis community. Excellent examples are as follows: (1) Ni-Al amorphous alloy catalysts with high surface areas and high stabilities have been developed and been successfully applied to commercial hydrogenation reactions in combination with the magnetically stabilized bed reactor to replace the conventional Raney Ni; (2) By developing SAPO-34 and related catalysts and processes, a ten-thousand scale plant for converting methanol to light olefins has been successfully built; (3) Fundamental aspects such as active site and catalytic mechanism for direct conversion of methane to benzene over Mo/HZSM-5 catalysts under nonoxidative conditions have been systematically studied; (4) The importance of other advances in catalysis include the activation and selective oxidation of lower alkanes, innovation of advanced catalytic materials, homogeneous and heterogeneous chiral synthesis, green chemistry by catalysis, Fischer-Tropsch synthesis, in situ characterizations and theoretical calculations. Generally following important research directions will be focused and emphasized in the near future: (1) New catalytic reactions and catalytic processes; (2) Novel catalytic materials and catalytic synthesizing methods; (3) Characterization techniques particularly the in situ techniques with high spatial and time resolutions, (3) theoretical calculations.

### **4.3) National Catalysis Award of China**

During the opening ceremony of the 13<sup>th</sup> National Congress on Catalysis of China, the Catalysis Society of China awarded prizes to the outstanding scientists with significant achievements in catalysis R&D. Enze Min, Professor of Research Institute of Petroleum Process, SINOPEC, received the Dayu Zhang Award for his great contribution to the R&D in petroleum technologies and chemical industries of China from the early 50th. Two Young Scientist Awards were given to Prof. Boqing Xu, Tsinghua University, for his creative research in metal/support nanocomposite and the size effect of support in oxide-supported metal catalysts; and to Prof. Zhongmin Liu, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, for his achievements in developing SAPO-34 and related catalysts, particularly for MTO process development.

### **4.4) Prof. Can Li elected to TWAS**

Prof. Can Li was elected to the member of the Third World Academy of Sciences (TWAS, also known as the Academy of Sciences for the Developing World) in 2005. Recently, Prof. Can Li was also awarded to the Outstanding Science and Technology Achievement Prize of the Chinese Academy of Sciences.

((Prof. Qin Xin and Prof. Wenjie Shen, Long-standing Secretariat of the Catalysis Society of China, State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China. Tel: +86-411-84379307; Fax: +86-411-84694447, e-mail: sklc@dicp.ac.cn).

## **5) News from Catalysis Community**

### **5.1) New appointment at IACS Council**

Prof. Gunther Rupprechter (Institute of Materials Chemistry, Vienna Univ. of Technology, Austria), Karin Foettinger (Institute of Material Chemistry, Vienna Univ. of Technology, Austria), Carlos Apesteguia (INCAPE, Argentina), Rafael van Grieken (Universidad Rey Juan Carlos, Madrid, Spain) and Michael Bowker (School of Chemistry, Cardiff Univ., Cardiff, UK) will replace Profs. Konrad Hayek (Universität Innsbruck, Innsbruck, Austria), Hannelore Vinek (Institute of Physical Chemistry Vienna Univ. of Technology, Austria), Horacio Thomas (CINDECA, Argentina), Jose L.

Garcia Fierro (Instituto de Catalisis Petroleoquimica, Madrid, Spain) and Graham Hutchings (University of Wales, Cardiff, UK), respectively.

## 5.2) Modification of the IACS Directory

- Prof. Dr. Gunther Puppechter  
Chair of the Austrian Catalysis Society,  
Institute of Materials Chemistry, Vienna Univ. of Technology  
Veterinarplatz 1  
A-1210, Vienna, Austria  
[grupp@imc.tuwien.ac.at](mailto:grupp@imc.tuwien.ac.at)
- Prof. Dr. Karin Foettinger  
Institute of Materials Chemistry, Vienna Univ. of Technology  
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[capesteg@fiq.unl.edu.ar](mailto:capesteg@fiq.unl.edu.ar)
- Prof. Rafael van Grieken  
Escuela Superior de Ciencias Experimentales y Tecnologia,  
Universidad Rey Juan Carlos  
c/Tulipan s/n  
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## 5.3) Awards and others

### - Professor Gerhard Ertl is the recipient of Nobel Prize in Chemistry for 2007 for ground breaking studies in surface chemistry

The Nobel Prize in Chemistry for 2007 was awarded for groundbreaking studies in surface chemistry. The Award acknowledges the impact of Professor Ertl's catalysis related work upon the semiconductor industry. Prof. Ertl has founded an experimental school of thought by showing how reliable results can be attained in this difficult area of research. He has also studied the oxidation of carbon monoxide on platinum, a reaction that takes place in the catalyst of cars to clean exhaust emissions.

### - Alexis Bell selected for the 2007 Michel Boudart Award

Professor Alexis Bell has been selected for the 2007 Michel Boudart Award for the Advancement of Catalysis. The award consists of a plaque and a prize. The Award recognizes and encourages individual contributions to the elucidation of the mechanism and active sites involved in catalytic phenomena and to the development of new methods or concepts that advance the understanding and/or practice of heterogeneous catalysis. The Boudart Award for the Advancement of Catalysis is

sponsored by the Haldor Topsøe Company and is administered jointly by the NACS and the EFCATS. The Award is presented biennially in odd numbered years.

**- Jim Dumesic is the 2007 Robert Burwell Lecturer**

The North American Catalysis Society is pleased to announce that Professor James A. Dumesic is the recipient of the 2007 Robert Burwell Lectureship in Catalysis. Jim is the Steenbock Professor of Chemical and Biological Engineering at the University of Wisconsin, in Madison, Wisconsin. This award is sponsored by Johnson Matthey Catalysts Company and administered by NACS. The award is given in recognition of substantial contributions to one or more areas in the field of catalysis with emphasis on discovery and understanding of catalytic phenomena, catalytic reaction mechanisms and identification and description of catalytic sites and species.

**- Gabor Somorjai wins ACS Priestley Medal**

Professor Gabor Somorjai of the University of California at Berkeley was selected as the ACS Priestley Medal Awardee for 2008. The Priestley Medal is the highest honor of the American Chemical Society (ACS) and is named for Joseph Priestley, who reported the discovery of oxygen in 1774. Gabor is receiving this award, which will be presented at the spring 2008 ACS national meeting, "for extraordinarily creative and original contributions to surface science and catalysis."

**- Tobin Marks Awarded 2005 National Medal of Science by President Bush**

Congratulations to Professor Tobin J. Marks, who on May 29, 2007 was one of only eight scientists awarded the 2005 National Medal of Science by President George W. Bush, U.S.A. The National Medal of Science was established by the 86th Congress in 1959 as a Presidential Award to be given to individuals "deserving of special recognition by reason of their outstanding contributions to knowledge in the physical, biological, mathematical, or engineering sciences."

**- Robert Farrauto is the 2008 F. G. Ciapetta Lecturer**

It is my pleasure to announce that Dr. Robert Farrauto of BASF's Catalysis Research is the 2008 F. G. Ciapetta Lecturer. This award is sponsored by Grace Davison Catalysts and administered by The North American Catalysis Society. The award is given in recognition of substantial contributions to one or more areas in the field of catalysis with emphasis on industrially significant catalysts and catalytic processes and the discovery of new catalytic reactions and systems of potential industrial importance.

**- Professor White Passed Away**

Professor John M. (Mike) White passed away suddenly and unexpectedly on Friday, August 31, 2007, while visiting his son in Oklahoma City. Prof. White held the prestigious Robert A. Welch Chair in Chemistry and had been with The University since 1966, when he was hired as an assistant professor following the completion of his Ph.D. at the University of Illinois. His research interests spanned a wide range of topics related to surface and materials chemistry, and he was one of the pioneers in photochemistry. A major contribution to the scientific community was his exploitation of the techniques of surface physics for the investigation of a variety of surface chemical problems. From 1991-2002, White served as Director of one of the earliest National Science Foundation-funded science and technology centers, heading up a team of twelve faculty, five postdoctoral fellows, and twenty-five graduate students from four UT departments.

Professor White is survived by his beloved wife, Gwen; his dear son Mark and wife Melissa; his precious daughter RaeAnne, her husband Todd Landrum and their children, Melody and Carter; and his much-loved son Paul. His mother, Frances, and four siblings also survive him, and his memory is held close by the countless students and friends, all of whose lives were made more meaningful by his presence.

## 6) Relevant Events

January 7 – 10, 2008, Bolans Village (Antigua and Barbuda)

*Trends in Surface Chemistry Conference 2008*

Additional Information:

<http://www.zingconferences.com/index.cfm?page=conference&intConferenceID=35>

March 24 – 28, 2008, San Francisco, CA (USA)

*2008 Spring Meeting of the Materials Research Society*

Additional Information: [http://www.mrs.org/s\\_mrs/sec.asp?CID=6689&DID=174642](http://www.mrs.org/s_mrs/sec.asp?CID=6689&DID=174642)

March 30 – April 3, 2008, The Jefferson Hotel – Richmond, Virginia (USA)

*22nd Conference on Catalysis of Organic Reactions*

Additional Information: <http://www.orcs.org/>

April 6 – 10, 2008, New Orleans, LA (USA)

*2008 Spring ACS National Meeting (235th)*

Additional Information: [2008 ACS Spring National Meeting](#)

April 6 – 10, 2008, New Orleans, LA (USA)

*2008 AIChE spring National Meeting*

Additional Information: <http://www.aiche.org/Conferences/SpringMeeting/index.aspx>

May 27 – 29, 2008, Cairo (Egypt)

*4th International Conference on Chemical and Environmental Engineering (I.C.E.E)*

Additional Information: <http://www.mtc.edu.eg>

June 15 – 19, 2008, Brisbane (Queensland, Australia)

*17th World Hydrogen Energy conference*

Additional Information: <http://www.whec2008.com/>

June 20 – 22, 2008, Colby-Sawyer College, New London, NH (USA)

*Gorden Research Conference – Catalysis*

Additional Information: <http://www.grc.org/programs.aspx?year=2008&program=catalysis>

July 6 – 11, 2008, Florence (Italy)

*2008 International Symposium on Homogeneous Catalysis (ISHC-XVI)*

Additional Information: <http://www.ishc16.it/>

July 8 – 12, 2008, Kyoto (Japan)

*ICC 14 Pre-Symposium (Creation and control of Advanced Selective Catalysis)*

Additional Information: <http://www.shokubai.org/intern/ICC-Pre/>

July 9 – 11, 2008, Dalian (China)

*ICC 14 Pre-Conference (Nanocatalysis: Fundamental and Applications)*

Additional Information: <http://www.nano.dicp.ac.cn/>

July 9 – 11, 2008, Xiamen (China)

*ICC 14 Pre-Symposium (Hydrocarbon Selective Oxidation and Syngas Conversion Catalysis)*

Additional Information: <http://pcss.xmu.edu.cn/14icc-pre/>

July 13 – 18, 2008, Seoul (Korea)

*14th International Congress on Catalysis (14th ICC)*

Additional Information: <http://www.icc2008korea.com/>

July 20 – 22, 2008, Kyungju (Korea)

*ICC 14 Post-Symposium (Catalysis for Hydrogen Energy Production and Utilization)*  
Additional Information: <http://post-icc08.postech.ac.kr/>

July 20 – 22, 2008, Daejeon (Korea)  
*1st International Combinatorial Catalysis Symposium (ICCS)*  
Additional Information: <http://www.iccs2008.org/>

July 21 – 24, 2008, Dalian (China)  
*ICC 14 Post-Symposium (International Symposium on Catalysis for Ultra Clean Fuels)*  
Additional Information: <http://www.cleanfuel.dicp.ac.cn/>

July 19 – 20, 2008, Seoul (Korea)  
*ICC 14 Related Symposium (2008 KZA Nanoporous Materials Workshop)*  
Additional Information: <http://www.kzaworkshop.org/>

August 17 – 21, 2008, Philadelphia, PA (USA)  
*2008 Fall ACS National Meeting (236th)*  
Additional Information: [2008 ACS Fall National Meeting](#)

August 23 – 27, 2008, Varna (Bulgaria)  
*10th International Symposium on Heterogeneous Catalysis*  
Additional Information: <http://ic.bas.bg/>

August 31 – September 3, 2008, Queen's University, Belfast (Ireland)  
*The 5th International Conference on Environmental Catalysis (ICEC-5)*  
Additional Information: <http://www.qub.ac.uk/centacat/5icec/>

September 2 – 6, 2008, Université Pierre et Marie Curie Paris, Paris (France)  
*4th International FEZA Conference*  
Additional Information: <http://www.congres.upmc.fr/feza2008/index.htm>

September 7 – 10, 2008, Kyoto (Japan)  
*20<sup>th</sup> International Symposium on Chemical Reaction Engineering (ISCRE 20)*  
Additional Information: <http://www2.scej.org/iscre20/>

September 8 – 11, 2008, Namur (Belgium)  
*6th International Mesostructured Materials Symposium*  
Additional Information: <http://webapps.fundp.ac.be/imms2008/index.php?page=homepage>

September 28 – October 2, 2008, Kloster Seeon (Germany)  
*5<sup>th</sup> International Conference on Combinatorial and High-Throughput Material Science*  
Additional Information: <http://events.dechema.de/en/seeon.html>

November 16 – 21, 2008, Philadelphia, PA (USA)  
*2008 AIChE Annual Meeting*  
Additional Information: <http://www.aiche.org/Conferences/AnnualMeeting/index.aspx>

December 1 – 5, 2008, Boston, MA (USA)  
*2008 Fall Meeting of the Materials Research Society*  
Additional Information: [http://www.mrs.org/s\\_mrs/sec.asp?CID=6688&DID=174641](http://www.mrs.org/s_mrs/sec.asp?CID=6688&DID=174641)

March 22 – 26, 2009, Salk Lake City, UT (USA)  
*2009 Spring ACS National Meeting (237th)*  
Additional Information: [2009 ACS spring National Meeting](#)

April 13 – 17, 2009, San Francisco, CA (USA)  
*2009 Spring Meeting of the Materials Research Society*

Additional Information: [http://www.mrs.org/s\\_mrs/sec.asp?CID=10891&DID=201200](http://www.mrs.org/s_mrs/sec.asp?CID=10891&DID=201200)

April 19 – 23, 2009, Rostock-Warnemünde (Germany)  
*3<sup>rd</sup> International Congress on Operando Spectroscopy (Operando-III)*  
Additional Information: <http://www.catalysis.de/Operando>

May 10 – 14, 2009, Genoa (Italy)  
*6<sup>th</sup> World Congress on Catalysis by Acids and Bases (ABC-6)*  
Additional Information: <http://www.catalisidichep.unige.it/ABC-6.htm>

July 5 – 10, 2009, Lille (France)  
*6<sup>th</sup> World Congress on Oxidation Catalysis (6WCOC)*  
Additional Information: <http://www.6wcoc.org/>

July 23 – 26, 2009, Heidelberg (Germany)  
*5<sup>th</sup> International Gold Conference*  
Additional Information: <http://www.gold2009.org/>

August 16 – 20, 2009, Washington, DC (USA)  
*2009 Fall ACS National Meeting (238th)*  
Additional Information: [2009 ACS Fall National Meeting](#)