

## IACS NewsLetter No. 2, 2006

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IACS NewsLetter is a publication of The International Associations of Catalysis Societies. Contributions for the NewsLetter should be directed to I.-S. Nam, E-mail: [isnam@postech.ac.kr](mailto:isnam@postech.ac.kr), Fax: +82 54 279 8299

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

The most significant event since the last IACS NewsLetter has been the death of Dr. Heinz Heinemann, one of the founders of ICC and a long-time contributor to the field of catalysis. A tribute in his honor is given below as item 2. Prior to his death, I proposed that IACS create a new award, to be named the Heinz Heinemann Award, which would be given to an individual who had accomplished outstanding research in the field of catalysis during the four-year period between two successive ICCs. Dr. Heinemann was very pleased to know of this proposal and supported the use of his name. Further information about this award is contained in this issue of the NewsLetter.

Plans are progressing smoothly for the 14th ICC. Prof. Sang-Heup Moon has assembled a several committees to help in this effort. A complete report on this subject appears under item 4.

The IACS NewsLetter offers an opportunity to the catalysis society of each nation that is a member of IACS to introduce the activities of that nation in the field of catalysis. In this issue of the NewsLetter we are pleased to present a writeup on the development of catalysis research in Argentina.

Since the IACS NewsLetter contains information that is of interests to individual researchers in each member nation, I would like to request that the national representatives to IACS inform the members of their national catalysis society about IACS and its NewsLetter. Individuals interested in reading issues of the IACS NewsLetter should be directed to the IACS website XXX,

## 2) Tribute to Dr. Heinz Heinemann

One of the founders of the International Congress on Catalysis, a distinguished scientist, and a leader in promoting the well being of the field of catalysis Heinz Heinemann passed away on November 23, 2005 at the age of 92. His death represents a significant loss for the field of catalysis, and he will be long remembered for his many technical, editorial, and organizational contributions.

Born in Berlin, Germany, he attended the University and Technische Hochschule in Berlin. When his thesis was rejected because he was Jewish, he moved to Basel, Switzerland, where he received his PhD in physical chemistry from the University of Basel. In 1938 he came to the United States to begin his professional career. From 1941 to 1948 he was a research supervisor for Attapulugus Clay Company. In 1948 he joined the Houdry Process Corporation as a section manager in their research department, and in 1957 he joined the M. W. Kellogg Company, first as assistant to the vice president of research and later as director of chemical and engineering research. From 1969 until 1978 he was affiliated with Mobil Research and Development Corporation and was manager of catalysis research in their Princeton laboratory. Upon his retirement from Mobil in 1978, he became a Senior Scientist at the Lawrence Berkeley Laboratory, where he continued to pursue research on new catalytic processes for the production of gaseous and liquid fuels. When he retired from this position in 1995, he continued working as a Distinguished Scientist in the Washington, DC, office of the Lawrence Berkeley National Laboratory, serving as a liaison between the Laboratory and the U.S. Department of Energy.

During the course of career, which spanned more than 60 years, he participated in the invention and development of 14 commercial processes, including the process for converting methanol to gasoline, received 75 patents, and published more than 150 papers. He was a co-founder of the Philadelphia Catalysis Club, the Catalysis Society of North America, and the International Congress on Catalysis, serving as its President from 1956 to 1960. In addition to serving as the editor of *Catalysis Reviews* for its first 16 years, he was Consulting Editor for over 90 books in the Chemical Industries Series, published by Marcel Dekker, Inc., many of which dealt with catalysis.

Dr. Heinemann's contributions to the science and industrial practice of catalysis were widely recognized. He was a member of the National Academy of Engineering and received the E. V. Murphree Award in Industrial Engineering Chemistry of the American Chemical Society, the E. J. Houdry Award in Applied Catalysis of the Catalysis Society, the Homer H. Lowry Award in Fossil Energy given by the U.S. Department of Energy, a Distinguished Scientist Award of the Department of Energy, a Distinguished Lectureship Award of the American Institute of Chemical Engineers, the Philadelphia Catalysis Club Award, and honorary membership in the Spanish Research Council with the title of Honorary Professor.

He is survived by his wife of 10 years, Barbara A. Tenenbaum of Washington, and two children from his first marriage, Sue Heinemann of Oakland, California, and Peter M. Heinemann of San Francisco. Dr. Heinemann's first wife, Elaine P. Heinemann, died in 1993.

### 3) IACS Executive Committee

According to the recommendations by the former Executive Committee, the Committee met twice in 2005 during major international catalysis meeting including NACS (19th NAM) and Pacificchem 2005. The most probable date for the next meeting may be scheduled during APCAT4 (Singapore, Dec. 15-20, 2005).

#### 3.1) Minutes of Meeting at 19th NAM (Provide date)

**Participants:** Anpo (Japan), Armor (USA), Bell (USA), Conner (USA), Fletcher (South Africa), Fuentes (representing Mexico), Lombardo (Argentina), Monnier (Canada), Moon (Korea), Mul (Netherlands), Nam (Korea), Ng (Canada), Schmal (Brazil), Weckhuysen (Netherlands).

**Venue:** Lobby Lounge, Wyndham Franklin Plaza Hotel, Philadelphia

**Agenda:**

- Current Progress of the organization of 14 ICC in 2008 (Moon)
- New Catalysis Award (Bell)
- Extension of IACS council communication to general members in international catalysis communities (Bell and Nam)
- Miscellaneous including IACS leadership (Bell) and Conference Timing for Regional Catalysis Meetings such as NAM, Europacat and APCAT (Mul)

#### 1. Opening of the meeting

Thirteen council members and one national representative participated. Three other council members including Hutchings (UK), Sanfilippo (Italy) and Woo (Korea) and one national representative, Trimm (Australia) could not attend the meeting due to their flight schedules although they were in the 19NAM. It was the last day of the 19NAM. The meeting was opened at 7:30 am by Prof. Bell, President of IACS. He welcomed the IACS Council and National representative, attending the 19NAM and was pleased to meet the participants. All the members introduced themselves and identified their affiliation.

#### 2. Current progress of the organization of 14ICC

The Chair person of 14ICC, Prof. Sang-Heup Moon (Korea) reported on the progress of the organization of the 14 ICC.

- The announcement circular for the ICC was distributed to delegates at the meeting. IACS delegates were asked to forward the circular, the PDF file of which is attached. to this mail, to all members of their Catalysis Societies.
- Three sub-committees were established and corresponding chairpersons are Prof. Seong Ihl Woo at [siwoo@kaist.ac.kr](mailto:siwoo@kaist.ac.kr) (Scientific Committee), Prof. Jae Sung Lee at

[jslee@postech.ac.kr](mailto:jslee@postech.ac.kr) (Program Committee), and Prof. In-Sik Nam at [isnam@postech.ac.kr](mailto:isnam@postech.ac.kr) (Finance Committee).

- China and Japan have agreed to organize pre-congress symposia, and Korea will organize one post-congress symposium at a place other than Seoul. Dr. Armor (USA) asked that the dates of pre- and post-conferences be defined asap, so that participants in the 14ICC could to their travel plan early.
- An International Scientific Advisory Committee will be organized for the purposed of providing advice on the selection of plenary and keynote lecturers, themes of technical sessions, and topics of special symposia. Delegates are cordially requested to recommend up to 5 scholars, per representing country, as candidates of the Scientific Advisors in a few months, hopefully by August 31. The recommendation will be made to Prof. Seong Ihl Woo at [siwoo@kaist.ac.kr](mailto:siwoo@kaist.ac.kr).
- Request the Korean governmental funding agency, the Korea Science and Engineering Foundation (KOSEF), to send letters of support for the 14th ICC to funding organizations of other countries. These letters are expected to help participants from other countries secure travel expenses from their funding organizations. Also suggest that the IACS increase the ICC travel fund to encourage the participation of the students and the scientists from developing countries.
- Continue providing information to IACS delegates on progress being made in the preparation of the Congress.

### 3. Awards

Prof. Bell, proposed the creation of a new award to recognize the contribution made by an individual during four years term between ICCs. The recipient will be invited to give a plenary lecture on his/her contribution as part of ICC. Prof. Bell suggested that this award be name the Heinemann Award. Dr. Armor supported the proposal. Prof. Conner (USA) talked about how the awardee could be selected. Prof. Weckhuysen (Netherlands) mentioned that the proposed award would be similar to the Breck Award given by the IZC. Of course, IACS constitution should be revised to include new award through the appropriate procedure. [In Sik is this correct? The consitution of an organization does not usually specify what awards are given byt the organization.] Dr. Armor also noted that the selection of awardees should be started as early as possible. Dr. Monnier (Canada) added that the procedure for the Young Scientists Prizes needs to be defined.

### 4. Extension of Communication inside IACS Council to General Members

Prof. Bell expressed concern about how well IACS communicates with members of the international catalysis community. He expressed the concern that the council members may not be circulating the IACS newsletter to members of their nationl catalysis society, and may not know about the IACS . He suggested that one way to resolve this problem might be to ask the IACS Secretary to distribute information directly to the members of national societies. It was noted that this approach would require considerable additional for the Secretary. As an initial step, he asked to the Council members to send a list of E-mail addresses for the the current and former officers of the catalysis societies of the Council countries to Prof. Nam, Secretary of IACS ([isnam@postech.ac.kr](mailto:isnam@postech.ac.kr)).

Dr. Armor mentioned the utilization of the ICC web site to announce regional catalysis meetings and to promote communication among members of the international catalysis societies. The activities including the slides of the plenary and award lectures and the pictures can be posted on the ICC website. In addition, the history of ICC, which has been extensively described by Dr. Heinemann during the 19NAM, could be also included. I twas also suggested that the article written by Dr. Heniemann about the history of ICC for an ACS monograph be posted in the ICC website.

### 5. Miscellaneous

- IACS leadership (Bell)

Prof. Bell noted the need to establish a clear procedure for nominating IACS officers. He also expressed the concern that IACS promote catalysis research for younger scientists and engineers within the International Scientific Societies. Dr. Armor strongly supported this idea. A detailed plan should be considered by the Council and prepared by the office of IACS.

- Conference timing for the Regional Catalysis Meeting (Mul, Netherlands)

Prof. Bell expressed the thought that the timing of regional meetings should be determined after consultation IACS in order to avoid the overlap of meetings. Dr. Armor noted that the regional meeting should be held in the time cycle already known to the International Community. Since the website of IACS contains list of all conferences related to catalysis, the organizers of the regional meeting should confirm their timing through the website when they decide the schedule of the conference. The office of IACS should inform all members of the International Societies of this.

- Introduction of Catalysis Society in Newsletter of IACS (Nam)

The introduction of national catalysis societies has been a feature of the IACS Newsletter since 2004. The Catalysis Societies of six countries, including China, Korea, Australia, India, France and Brazil, have already been introduced. Any members of the IACS council can have an opportunity for the introduction of their catalytic societies to the international catalysis community. To do so, contact should be made with Prof. Nam, Secretary of IACS, [isnam@postech.ac.kr](mailto:isnam@postech.ac.kr).

Since no further agenda were called forth, Prof. Bell closed the meeting at 9:00 and thanked all of the members for their active participation.

### **3.2) Minutes of Meeting at Pacifichem 2005 (Give the date and time of the meeting)**

**Participants:** Bell (USA), Li (China), Moon (Korea), Nam (Korea), Ng (Canada).

**Venue:** Hilton Hawaiian Village, Honolulu, Hawaii

**Agenda:**

- IACS awards (Bell)
- Progress towards the organization of the 14<sup>th</sup> ICC, 2008 (Moon)
- Miscellaneous items, including conference timing (Li) for Regional Catalysis Meetings such as NAM, Europacat and APCAT, and use of IACS funds (Moon) for young scientists participating in ICC.

#### **1. Opening of the meeting**

Only five council members participated. The meeting was opened at 12:30 pm by Prof. Bell, President of IACS. He welcomed the IACS Council members attending the Pacifichem2005.

#### **2. Awards**

Prof. Bell mentioned Dr. Heinemann's sudden death on Nov. 23, 2005. However, prior to that time he had had an opportunity to discuss the proposed naming of the award, and Dr. Heinemann expressed his pleasure in knowing that the would be named for him. An example for Heinemann award announcement prepared by Prof. Bell was examined. If finally approved by all members of the IACS Council, preparations will need to made to secure nominations for the first award. I was also noted that the IACS constitution will likely need to be revised in order to include the new award. Prof. Bell again noted the need to develop a formalized means for selecting IACS officers. It was suggested that a nominating committee be set. Each country could then suggest candidates for future IACS leadership positions. [In Sik, since this could be a sensitive subject, I think that we should discuss a possible mechanism amongst the current IACS leaders before we go public with a proposed plan.]

### 3. Current progress of the organization of 14ICC

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

- No recommendations from the council members have been received so far about the candidate members of the International Scientific Advisory Committee, which will be consulted about the selection of plenary and keynote lecturers, themes of technical sessions, and topics of special symposia. The delegates were cordially requested to recommend up to 5 scholars, per represented country, as candidates of the Scientific Advisors hopefully by Dec. 31, 2005. The recommendation should be made to Prof. Seong Ihl Woo at [siwoo@kaist.ac.kr](mailto:siwoo@kaist.ac.kr).
- China and Japan agreed to organize pre-congress symposia, and Korea will organize two post-congress conferences at Daejeon and Gyungju. Prof. Bell mentioned that the firm dates of pre- and post-conferences should be announced asap so that participants could make their travel plan early for the ICC.

### 4. Miscellaneous

- Conference timing for the Regional Catalysis Meeting (Li, China)  
The scheduling of Regional Meetings was discussed. Prof. Bell noted that regional meeting should be held for the benefits of the region.
- Use of IACS fund to support participants of the ICC (Moon, Korea)  
In order to promote the participation of students, young scientists and scholars from developing countries in the ICC, it was suggested that IACS funds be used to support an increased number of attendantes at the ICC. Those presenting papers are entitled to apply for the grant, which consists of either a waived registration fee for the Congress or a cash bursary (paid at the conference desk) to support the travel and accommodation costs. Applications for the ICC conference grants should be sent to IACS Secretary, [isnam@postech.ac.kr](mailto:isnam@postech.ac.kr), referencing the subject "ICC conference grant" and the abstract number of the paper. The application should be accompanied by a recommendation by the respective scientific supervisor.
- Introduction of Catalysis Society in IACS Newsletter (Nam)  
The introduction of Catalysis Society has been included in a column of IACS Newsletter since 2004. The national catalysis societies of six countries, including China, Korea, Australia, India, France and Brazil, have already been introduced. Representatives of national catalysis societies wishing to utilize this opportunity should contact the IACS Secretary.

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

## 4) 14th ICC News

The preparation of the 14<sup>th</sup> ICC to be held in Seoul, Korea from July 13<sup>th</sup> to 18<sup>th</sup> of 2008 ([www.icc2008korea.com](http://www.icc2008korea.com)) is proceeding smoothly. The Organizing Committee headed by Prof. Sang Heup Moon ([shmoon@surf.snu.ac.kr](mailto:shmoon@surf.snu.ac.kr)) has just issued the 1st Circular. The following is an excerpt of the Circular.

### Scientific Program

The scientific program will consist of 6 plenary lectures, 11 keynote lectures, 120 oral presentations and estimated 600 posters. The keynote lectures and the oral presentations will be organized in four parallel sessions. The organizing committee is making broad search for the plenary and keynote speakers. Professors J.A. Dumesic (Univ. of Wisconsin-Madison) and T. Tatsumi (Tokyo Inst. of Technology) have accepted so far to present plenary lectures. The program will cover the following six general areas of fundamental and applied catalysis;

Innovation in Catalyst Design

New Findings in Reaction Mechanism  
Advances in Catalytic Reaction Engineering  
Catalysis in Energy/Fuel Production  
Catalysis for Fine Chemicals/Industrial Chemicals Production  
Sustainable Green Catalysis

### **Industrial Technology Session & Exhibition**

Industrial Technology Session will be organized as a special program to promote the academia-industry collaboration. In addition to an exhibition of equipment and scientific materials, recently developed catalysts and catalytic processes will be introduced by lecturers invited from industries. Prof. S.-E. Park ([separk@inha.ac.kr](mailto:separk@inha.ac.kr)) should be contacted for presentation in the Industrial Technology Session and for industrial booth exhibitions.

### **Extended Abstracts**

All authors (both general and industrial sessions) are requested to submit a 2-page extended abstract (1.5 line spacing on A4 size paper) including figures and tables as well as a half-page short abstract in the form of an electronic file (MS Word or PDF) Abstract template will be available from March 1, 2007 and the abstract should be submitted by October 31, 2007 at the official website [www.icc2008korea.com](http://www.icc2008korea.com). All abstracts will be reviewed by an international panel of experts. Selection of paper and the mode of presentation will be decided by the Scientific Committee based on the extended abstract. Notice of acceptance will be sent to the author by February 29, 2008.

### **Registration**

The registration procedure will be given in the 2<sup>nd</sup> Circular, which is distributed by February 2007.

### **Prizes**

The council of IACS will award a number of prizes to young scientists (not older than 35) in the 14<sup>th</sup> ICC. A special committee will select the winners on the basis of scientific quality of the paper submitted. The prize will consist of a certificate and a reimbursement of the registration fee of the Congress. Details of the application procedure will be provided in the 2<sup>nd</sup> Circular.

The Organizing Committee of the 14<sup>th</sup> ICC will also provide partial financial supports to scholars from developing countries and a limited number of students after evaluation of their need. Those intending to apply for financial aid should write to Professor J.S. Lee ([jlee@postech.ac.kr](mailto:jlee@postech.ac.kr)) from Nov. 15 to Dec. 15, 2007.

### **Pre- & Post-symposia**

Pre-symposia (July 9-11, 2008)

- Creation and Control of Advanced Selective Catalysis (In celebration of the 50<sup>th</sup> anniversary of the Catalysis Society of Japan), Kyoto, Japan (organized by Prof. Y. Iwasawa)
- Nanocatalysis: Fundamental and Applications, Dalian, China (organized by Prof. C. Li)
- Hydrocarbon Selective Oxidation and Syngas Conversion Catalysis, Xiamen, China (Organized by Prof. Y. Wang)

Post-symposia (July 20-22, 2008)

- Catalysis for Hydrogen Energy Production and Utilization, Gyeongju, Korea (organized by Prof. J.S. Lee)
- First International Combinatorial Catalysis Symposium, Daejeon, Korea (organized by Prof. S.I. Woo)

### **Key Dates**

Second Circular and Call for Paper: Feb. 28, 2007

Deadline for Abstract Submission: Oct. 31, 2007

Notice of Acceptance: Feb. 29, 2008

Deadline for Early Registration: April 15, 2008

Congress: July 13-18, 2008

### **Correspondence**

Please visit the official website: [www.icc2008korea.com](http://www.icc2008korea.com).

Inquiries for scientific contents should be directed to:

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Inquiries for other general matters should be directed to:

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## 5) Introducing a Catalysis Society: Catalysis activities in Argentina

### Brief History of the Development of Catalysis in Argentina

A milestone of science and technology in Argentina was the establishment in the late fifties of the National Research Council –CONICET-. This organization was created in order to promote, coordinate and execute the national policies on science and technology. In the early sixties small groups of catalysis researchers initiated their scientific activities under the CONICET umbrella. Thus, in 1962 the first laboratory in catalysis research was created by Prof. Parera at the Universidad Nacional del Litoral followed by the appearance of smaller research teams at the Universities of La Plata, Buenos Aires, Cuyo, Salta and Sur.

The National Committee on Catalysis (CONACA) was founded in the early seventies. The main objective of the committee was to provide advice to CONICET about the promotion and coordination of catalytic R&D, international cooperation and the development of human resources. The CONACA ruling board was constituted by academic institutions and the national oil, gas and petrochemical Industries.

Along the following years these research groups flourished and new ones emerged at the Universities of Tucumán and UTN-Córdoba. Thus, four research institutes totally or partially devoted to catalysis were created during the seventies: CINDECA (La Plata), PLAPIQUI (Bahía Blanca), INTEC and INCAPE (Santa Fe). Nowadays, seven Institutes depending of CONICET and National Universities and other three groups belonging to Universities have become the leading research centers in catalysis.

Historically, the research topics were related to the petroleum and petrochemistry fields due to the cooperative relationship of both CONICET and the National Universities with the local industries. Therefore, intensive research and development was performed on porous supports for hydrotreating and reforming of hydrocarbons, catalysts and processes for both steam and naphtha reforming, HDS of different oil fractions, Fischer Tropsch, hydrogenation-isomerization of hydrocarbons and FCC and related processes.

In the early nineties, the research activities spread to cover new subjects such as, selective oxidation and total combustion of hydrocarbons and VOCs, environmental catalysis, green chemistry, hydrogen production and purification and several new materials and processes.

CONACA organizes the Argentine Congress on Catalysis every two years since 1979. The number of contributions has been growing continuously from the first Congress where 36 communications were presented. The XIV Congreso Argentino de Catálisis was held in Santa Fe during October 2005, where over 170 contributions were presented with an attendance of 260 participants from Argentina and other South American countries. In 2001 was organized the “1<sup>st</sup> Mercosur Congress on Catalysis” (Argentina, Brasil, Uruguay, Paraguay and Chile) that is held every two years in different countries. The 4<sup>th</sup> Mercosur Congress will be held in La Plata-Argentina during 2007.

Argentina organized three Ibero-American Symposia on Catalysis, they were held in: Santa Fe (1970), La Plata (1980) and Córdoba (1996). Additionally, two international workshops on



“Environmental Catalysis and Environmentally Benign Technologies” sponsored by the NSF (USA) and “Catalytic Technologies for Sustainable Industrial Processes” sponsored by the International Center for Science and High Technology of the United Nations Industrial Development Organization (ICS-UNIDO) were organized by national catalytic groups and held in Santa Fe and Buenos Aires respectively.

CONICET and the Secretariat of Science and Technology supports programs for international cooperation with many countries such as, USA (NSF), Belgium (FNRS) France (CNRS), Italy (CNR), Hungary (NAS), United Kingdom (British Council), Spain (CSIC), Brasil (CNPq), Mexico (CONACYT), Chile (CONICYT). They also sponsor participation in multilateral research programs such as, CYTED (Ibero-American program) and Alpha projects (European Union) devoted to various fields of catalysis.

The web site ([www.di.fcen.uba.ar/diq/conaca](http://www.di.fcen.uba.ar/diq/conaca)) of CONACA provides more detailed information about the catalytic groups in Argentina, its organization and activities. It also provides an overview of research organizations of Argentina and several Ibero-American countries.

Horacio Jorge Thomas

## **6) News from Catalysis Community**

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

Prof. Walter Leitner (RWTH Aachenm, Institute für Technische Chemie und Makromolekulare Chemie, Aachen, Germany) will replace Prof. Jens Weitkamp and Drs. Daniel Duprez (Universite de Poitiers, Faculte des Sciences, Poitiers Cedex, France) and Slavik Kasztelan (Institut Francais du Petrole Direction Catalyse & Separation, Vernaison, France) will replace Dr. Jea-Marie Herrmann and Prof. Christine Travers.

### **6.2) Modification of the IACS Directory**

- Prof. Dr. Walter Leitner  
RWTH Aachen,  
Institute für Technische Chemie und Makromolekulare Chemie  
Worringerweg 1  
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### 6.3) Awards

**James Dumesic**, Professor of Chemical and Biological Engineering at the University of Wisconsin-Madison has received the Gabor A. Somorjai Award for Creative Research in Catalysis sponsored by the Gabor A. & Judith K. Somorjai Endowment Fund.

**James C. Stevens**, a research fellow at Dow Chemical in Freeport, Texas has received the ACS award in Industrial Chemistry for discovery and commercial development of catalysts used in the polyolefin production. This award recognizes outstanding contributions to chemical research in the industrial context.

## 7) Relevant Events

August 27-31, 2006, Prague

### **CHISA 2006**

*17th International Congress of Chemical and Process Engineering*

Additional Information: <http://www.chisa.cz/2006/>

August 30 - September 1, 2006, Brussels (Belgium)

### **CAPoC7**

*Seventh International Congress on Catalysis and Automotive Pollution Control*

Additional Information: <http://www.ulb.ac.be/sciences/cpmct/capoc7/>

September 3-6, 2006, University of Limerick (Ireland)

### **Gold 2006**

*International Conference on the Science, Technology and Industrial Applications of Gold*

Additional Information: <http://www.gold2006.org/>

September 3-6, 2006, Potsdam (Germany)

### **ISCRE 19**

*19th International Symposium on Chemical Reaction Technology*

Additional Information: <http://events.dechema.de/ISCRE-design-.html>

September 10-14, 2006, Louvain-la-Neuve (Belgium)

*9th International Symposium on Scientific Basis for the Preparation of Heterogeneous Catalysts*

Additional Information: <http://www.cata.ucl.ac.be/9prep.htm>

September 10-14, 2006, San Francisco, CA

*2006 Fall National Meeting of ACS*

Additional Information:

<http://www.chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=meetings%5cfuture.html>

September 11-15, 2006, Foz do Iguacu/PR (Brazil)

### **13CBCAT**

*13th Brazilian Catalysis Congress*

Additional Information: <http://www.13cbcat.sbcac.org>

September 10-15, 2006, Dresden (Germany)

### **IUPAC ICGC-1**

*First International IUPAC Conference on Green-Sustainable Chemistry*

Additional Information: <http://www.gdch.de/vas/tagungen/tg/5559.htm>

December 6-8, 2006, Singapore

**APCAT 4**

*4th Asia Pacific Congress on Catalysis*

Additional Information: <http://www.ntu.edu.sg/scbe/cbe/APCAT4/index.htm>

December 10-13, 2006, Kuwait

Conference on Catalysis in the Gulf Cooperation Council (GCC) Countries

Additional Information: <http://gccat.com>

March 25-29, 2007, Chicago, IL (USA)

**2007 Spring National ACS meeting**

April 22-25, 2007, Bari (Italy)

**EuroCombiCat 2007**

European Conference for Combinatorial Catalysis Research and High-Throughput Technologies

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

May 13-16, 2007 (Netherlands)

**MACS-IV**

*4th International Symposium on Molecular Aspects of Catalysis by Sulfides*

Additional Information: [Sonja.Eijsbouts@Albemarle.com](mailto:Sonja.Eijsbouts@Albemarle.com)

June 17-22, 2007, Houston, TX (USA)

**20NAM**

*20th North American Catalysis Society Meeting*

Additional Information: <http://www.20nam.org/>

August 12-17, 2007, Beijing (China)

**15IZC**

15th International Zeolite Conference

Additional Information : <http://www.15izc.org.cn>

August 19-23, 2007, Boston, MA

*2007 Fall ACS National Meeting*

August 26-31, 2007, Turku/Åbo (Finland)

**Europacat VIII**

*European Congress on Catalysis*

Additional Information: <http://www.abo.fi/fak/ktf/tek/europacat8/>

September 16-20, 2007, Verbania Pallanza (Italy)

**8th CAFC**

8th Symposium on Catalysis Applied to Fine Chemical

April 6-10, 2008, New Orleans, LA

*2008 Spring ACS National Meeting*

July 13 – 18, 2008, Seoul (Korea)

**14th International Congress on Catalysis**

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

August 31 - September 3, 2008, Queen's University, Belfast

**ICEC-5**

*The 5th International Conference on Environmental Catalysis*

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