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**INTERNATIONAL ADVISORY BOARD**

IACS Council

**NATIONAL PROGRAM COMMITTEE**

Members of the German Catalysis Society

**SATELLITE CONFERENCES**

- » International Conference on Theoretical Aspects of Catalysis – ICTAC 14 in the Netherlands.
- » Calorimetry and Thermal Analysis in Catalysis – CTEC 2012 in France
- » International Symposium on Catalysis for Clean Energy and Sustainable Chemistry – CCESC-2012 in Spain
- » Carbon in Catalysis – Carboat V in Italy
- » SynFuel Symposium 2012 in Munich, Germany
- » Advances in Heterogeneous Catalysis for Biomass Valorization in Greece
- » In situ Spectroscopy and Model Catalysis in Austria
- » 2<sup>nd</sup> International Symposium on Intermetallic Compounds in Methanol Steam Reforming

More information about the Satellite Conferences can be found at [www.icc2012.org](http://www.icc2012.org).

**CONGRESS FEE**

Early registration before May 1, 2012	530 €
Regular registration	630 €
Students (copy of student ID card required)	180 €

**DATES TO NOTE**

- November 1, 2011 Deadline for submission of abstracts
- January 2012 Start of online-registration
- February 2012 Notification of acceptance for presentation
- March 2012 Distribution of final program overview
- May 1, 2012 Early registration deadline

**CONGRESS ORGANIZER**

DECHEMA – The Society for Chemical Engineering and Biotechnology e.V. is a not-for-profit scientific and technical organization based in Frankfurt am Main, Germany. DECHEMA is the parent organization of the German Catalysis Society.



Website: [www.dechema.de](http://www.dechema.de) & [www.gecats.de](http://www.gecats.de)

Special contact with respect to issues concerning the 15<sup>th</sup> ICC: [martz@dechema.de](mailto:martz@dechema.de)

**CONGRESS VENUE**

The congress will be held at the International Congress Center Munich.

[www.icm-muenchen.de](http://www.icm-muenchen.de)

**EXHIBITION & SPONSORING**

It gives us a great pleasure to invite you to participate as an exhibitor/sponsor at the 15<sup>th</sup> International Congress on Catalysis 2012.

We expect more than 1.500 academic and industrial experts in the field of catalysis. For further information, please contact Mrs. Claudia Martz at the congress office via phone (+49 69 7564-129) or e-mail ([martz@dechema.de](mailto:martz@dechema.de)).

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[www.icc2012.org](http://www.icc2012.org)

15<sup>th</sup> ICC 2012  
MUNICH · JULY 1 – 6

15<sup>th</sup>  
International  
Congress  
on Catalysis

in Munich, Germany  
July 1 – 6, 2012

CALL FOR PAPERS

[www.icc2012.org](http://www.icc2012.org)

**INVITATION TO CONTRIBUTE TO THE ICC 2012**

Dear colleagues,

On behalf of the Organizing Committee, I invite you to attend the 15<sup>th</sup> ICC in Munich and to contribute by presenting your latest results and by sharing your findings with colleagues in discussions. The scientific program provides a unique forum to discuss the most recent progress in catalysis research and development and to meet catalysis experts from industry and academia.

The field of catalysis has dramatic progress through emerging connections among its underlying scientific disciplines and among research groups through high-profile scientific networks. It is clear that catalysis will remain one of the key technologies leading to sustainability in the synthesis of energy carriers and chemicals.

The congress will be held at the International Congress Centre in Munich. This is a world-class facility offering the flexible infrastructure required to accommodate audiences of any size. The theme of the congress, **“From fundamental understanding to catalyst design and novel processes”**, charts the routes to step-out advances in catalysis from its roots in basic catalytic phenomena.

The 15<sup>th</sup> ICC will serve as a platform to exchange new ideas and to discuss developments in all areas of catalysis. Renowned plenary and keynote speakers will present overviews of recent developments. Four parallel oral sessions and two general poster sessions will be complemented by cross disciplinary sessions, organized to share exciting new results at the boundaries between established fields within catalysis. Poster presenters will be able to organize up to four parallel half-day workshops to maximize direct participation by the conference attendees and to stimulate discussions in more specialized areas. A social program rich in various aspects of the local culture will give you the opportunity to meet your colleagues and friends in a more relaxed atmosphere.

We all look forward to your contribution to the exiting scientific program of the 15<sup>th</sup> ICC and to meet you in 2012 in Munich.

Johannes A. Lercher  
Chairman, Organizing Committee  
15<sup>th</sup> International Congress on Catalysis

**CONFIRMED LECTURES**

**PLENARY LECTURES**

- Alexis T. Bell** University of California, Berkeley, CA/USA
- Kazunari Domen** University of Tokyo/J
- Hans-Joachim Freund** FHI Berlin/D
- Charlie Kresge** Dow Chemical Company, Midland, MI/USA
- Philippe Sautet** École Normale Supérieure de Lyon/F

**KEYNOTE LECTURES**

- Carlos R. Apesteguia** INCAPE, Santa Fe/RA
- Xinhe Bao** Dalian Institute of Chemical Physics/PRC
- Matthias Beller** Leibniz-Institut für Katalyse e.V., Rostock/D
- Valerii I. Bukhtiyarov** Borekov Institute of Catalysis, Novosibirsk/RUS
- David J. Cole-Hamilton** University of St. Andrews/UK
- Robert Davis** University of Virginia, Charlottesville, VA/USA
- Robert J. Farrauto** BASF Catalysis LLC, Iselin, NJ/USA
- Lynn F. Gladden** University of Cambridge/UK
- Can Li** Dalian Institute of Chemical Physics/PRC
- Guy B. Marin** University of Ghent/B
- Matthew Neurock** University of Virginia, Charlottesville, VA/USA
- Unni Olsbye** University of Oslo/N
- Ryong Ryoo** Korea Advanced Institute of Science and Technology, Daejeon/ROK
- Joachim Sauer** Humboldt-Universität zu Berlin/D

**TOPICS**

A. Mechanisms – Understanding catalysts and catalytic reactions	B. Materials – Design, synthesis and characterization of catalysts	C. Processes – Novel approaches to catalytic transformations
<p><b>1. Catalysis for energy applications</b> (petroleum refining, hydrogen production/storage, conversion of carbon rich unconventional fossil resources and biomass, energy storage and conversion, photo/electro and fuel cell catalysis, syngas generation ...)</p>		
<p><b>2. Catalysis for chemical synthesis</b> (green synthesis, advanced routes in petrochemistry, platform chemicals from renewables, fine chemicals and pharmaceuticals, enantioselective catalysis, biochemical routes to fine chemicals, polymerization ...)</p>		
<p><b>3. Catalysis for environmental applications</b> (cleaning exhaust streams, mobile source emission, catalytic upgrading of waste materials, catalysis in CCS ...)</p>		
<p><b>4. Crosscutting issues and grand challenges</b> (advances in computational catalysis, catalysis via nano-technology, characterization techniques, advances in reactor technology ...)</p>		

Three main threads structure the catalytic themes into mechanisms, i.e., the understanding of catalytic materials and processes, materials, i.e., the design, synthesis and characterization of catalysts and processes, i.e., novel approaches to catalytic processes. These three threads will be complemented by a thread covering crosscutting issues such as the development of new computational methods, new analytical techniques and new approaches to reactor design. These four main threads will be applied to structure applications of catalysis in the areas of catalysis for energy application, catalysis for chemical synthesis and catalysis for environmental applications. To help us group your contribution, we have identified topics within the program, which are shown in compact form on the facing page and are detailed on the webpage. You are invited to pick up to two of the best fitting categories for your abstract or tag it as “none of the topics”.

Please contact us, if you need further information. It would be a pleasure for us to help.

**ABSTRACT PREPARATION AND SUBMISSION**

Please submit proposed contributions in form of a two page abstract (max. 500 kb) via [www.icc2012.org](http://www.icc2012.org); the congress language is English. The deadline for submitting an abstract is **November 1, 2011**.

The selection of the contributions (oral or poster) will be based on the review of the abstracts by the Committee.

**Important note:**

The abstracts of all accepted contributions will be published beforehand on the congress website.

Authors of accepted poster contributions are expected to submit the poster in electronic form on a Web based platform until May 15, 2012. The poster will be accessible electronically to participants on interactive large format monitors and will form the basis for the half-day workshops that will be held during the congress allowing an optimal direct interaction of groups with specialized interests. Detailed information on the electronic submission and instructions, how to prepare the posters will be given with the notification of acceptance.

