



second circular

# 17<sup>th</sup> International Symposium on Relations between Homogeneous and Heterogeneous Catalysis

July 12-15, 2015 | Utrecht, The Netherlands



Universiteit Utrecht

# Invitation

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Utrecht University and the Catalysis Centre Utrecht have the pleasure to invite you to the 17<sup>th</sup> International Symposium on Relations between Homogeneous and Heterogeneous Catalysis. The symposium will be held from July 12-15, 2015, in Utrecht, a beautiful historic city in the Netherlands. We hope to welcome all of you who are interested in the molecular aspects of heterogeneous and homogeneous catalysis and in the latest scientific developments at the interface of these two disciplines.



## Scope

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Following the tradition of the preceding ISHHC conferences, ISHHC17 will bring together scientists working at the forefront of the disciplines of homogeneous and heterogeneous catalysis.

ISHHC17 intends to offer a platform where scientists from academia as well as industry, can meet to discuss the recent advances in instrumentation, synthesis and molecular level reaction studies. The aim of ISHHC17 is to uncover and focus on common concepts that emerge from atomic, molecular and nanoscale studies of the structure, function and dynamics of the two types of catalysts.

# Invited Speakers

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Matthias Beller	(Leibniz Institute for Catalysis, Germany)
Peng Chen	(Cornell University, USA)
Peter Crozier	(Arizona State University, USA)
Darren Dixon	(University of Oxford, UK)
Chunying Duan	(Dalian University of Technology, China)
Lynn Gladden	(University of Cambridge, UK)
Frank Glorius	(University of Münster, Germany)
Karen Goldberg	(University of Washington, USA)
Jan-Dierk Grunwaldt	(Karlsruhe Institute of Technology, Germany)
Jan van Hest	(Radboud University Nijmegen, The Netherlands)
Philip Jessop	(Queen's University, Canada)
Shu Kobayashi	(The University of Tokyo, Japan)
Can Li	(Chinese Academy of Sciences, China)
Gianfranco Pacchioni	(University of Milano-Bicocca, Italy)
Jonas Peters	(California Institute of Technology, USA)
Robert Schlögl	(Fritz Haber Institute of the Max Planck Society, Germany)
Sven Schneider	(University of Göttingen, Germany)

## Key dates

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Febr. 15, 2015	Deadline abstract submission orals
March 31, 2015	Notification of acceptance
April 30, 2015	Deadline abstract submission posters
April 30, 2015	Deadline early registration

Registration and abstract submission take place online at [www.ishhc17.org](http://www.ishhc17.org).

## Abstracts

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Authors are invited to submit an abstract for an oral contribution in the parallel sessions and for poster presentations. Further instructions as well as the abstract template can be found online. A selection will be made from the submitted abstracts for the oral and poster presentations. Accepted abstracts will be published in the (digital) book of abstracts of ISHHC17.

## Special Issue

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A Special Issue will be published in the journal *Topics in Catalysis*. Speakers will be invited to contribute to the Special Issue.

## Tentative program

On Sunday, the symposium will start with an opening ceremony at the St. Martin's Cathedral (Dom Church) in Utrecht city center, followed by the start of the scientific program. Afterwards, a welcome reception will be held in the University Hall and the Pandhof garden and Cloisters of the Dom Church.

The remainder of the scientific program will take place in the Educatorium on the Utrecht University campus, De Uithof.

We are pleased to announce the renowned scientists who confirmed to give an invited lecture. In addition to 8 plenary lectures, the program will consist of parallel sessions with keynote lectures and oral contributions, as well as two poster sessions. During the symposium, also an exhibition of equipment and products related to the field will be held.



# Organizing Committee

The ISHHC17 is organized by the Catalysis Centre Utrecht (CCU) of Utrecht University in the Netherlands, with financial support of Utrecht University's Strategic Theme Sustainability. Within the CCU, the research groups 'Organic Chemistry and Catalysis' and 'Inorganic Chemistry and Catalysis' work together on various aspects of homogeneous and heterogeneous catalysis.

B.M. (Bert) Weckhuysen,  
Inorganic Chemistry and  
Catalysis

R.J.M. (Bert) Klein Gebbink,  
Organic Chemistry and  
Catalysis

P.C.A. (Pieter) Buijninx,  
Inorganic Chemistry and  
Catalysis

M.F.A. (Monique) Lamers,  
Inorganic Chemistry and  
Catalysis

Please contact the conference secretariat of ISHHC17 or the website for more information and updates:  
+31 (0)6 288 344 62  
E-mail: [ishhc17@uu.nl](mailto:ishhc17@uu.nl)  
[www.ishhc17.org](http://www.ishhc17.org)

# Parallel Sessions

## General Session

Covering all contributions that fall within the broad scope of the symposium; dealing with those subjects not directly addressed by the four topical sessions.

Chaired by Bert Weckhuysen, Bert Klein Gebbink and Pieter Buijninx

## Advanced Tools for Catalysis

Focusing on experimental and theoretical tools that allow the investigation of catalytic phenomena down to the single atom and single molecule level, often under conditions very close to those of practical relevance.

Chaired by Bert Weckhuysen, Suzanne Blum (University of California, Irvine) and Maarten Roeffaers (KU Leuven)

## Complexity and Cooperativity in Catalysis

Highlighting the latest developments in catalytic reactions, in which multiple different substrates or different catalyst components take part, avoiding the isolation of intermediate reaction products and increasing process chemo/regio/enantioselectivity.

Chaired by Bert Klein Gebbink, Bas de Bruin (University of Amsterdam) and Masaya Sawamura (Hokkaido University)

## Hybrid Approaches to Catalysis

Covering atomically or molecularly defined supported catalysts, offering the potential of better control over the elementary steps in the catalytic process and the promise of rational catalyst design.

Chaired by Pieter Buijninx, Kuiling Ding (Chinese Academy of Sciences) and Justin Notestein (Northwestern University)

## Reaction and Separation Technology

Dealing with the broader aspects of catalytic engineering, this session aims to highlight the intimate interplay between molecular, microscopic and macroscopic engineering for the purpose of catalysis.

Chaired by Eelco Vogt (Utrecht University/Albemarle), Christopher Hardacre (Queen's University Belfast) and Walter Leitner (RWTH Aachen)

For a more extensive description of the scope of the topical sessions, please visit the website.



Photo: Ivan Pelj

## Location & Venue

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The conference will take place in Utrecht, a historic and beautiful city in the center of the Netherlands. Utrecht University, founded in 1636 is inextricably linked with the city, with many historical locations downtown and a modern University campus, called De Uithof (also known as Utrecht Science Park). After the opening ceremony in the city center, the symposium will continue in the Educatorium, a modern conference facility of architectural fame at De Uithof.

Utrecht can be easily reached via several routes, most conveniently via Amsterdam Schiphol Airport, which is served by all major international airlines. Utrecht is only 30 minutes away by train or 45 minutes by car.

The city center of Utrecht  
in The Netherlands



Photo: Ivan Pelj



Photo: Fransiek Geis / Shutterstock.com

# ISHHC 17

UTRECHT  
2015



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