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- Jennifer Whiting  
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**International Advisory Board**

- International Association of Catalysis Societies Council

**Scientific Committee**

- Members of the North American Catalysis Society



Several pre-ICC and post-ICC conferences, covering a wide range of topics in catalysis will be held in the United States, Canada, and Mexico.

**26<sup>th</sup> Canadian Symposium on Catalysis (CSC 2020)**

June 9-12, 2020  
Vancouver, Canada  
<http://catalysisdivision.ca/symposium/>

**3<sup>rd</sup> International Symposium on Single Atom Catalysis (ISSAC-3)**

June 10-12, 2020  
Asilomar Conference Grounds  
Pacific Grove, California, USA  
<https://pccs.ucdavis.edu>

**Catalysis for Biomass-derived Molecules to Valuable Products**

June 11-12, 2020  
Puerto Vallarta, Mexico  
[http://eventos.uanl.mx/cbvp\\_2020/index.html](http://eventos.uanl.mx/cbvp_2020/index.html)

**4<sup>th</sup> Fundamentals and Applications of Cerium Dioxide in Catalysis**

June 20-23, 2020  
SLAC National Accelerator Laboratory, Menlo Park, California, USA  
<https://suncat.stanford.edu/events/ceria-conference-2020>

**Gordon Research Conference on Catalysis**

June 28-July 3, 2020  
New London, New Hampshire, USA  
<https://www.grc.org/catalysis-conference/2020/>

**CONGRESS FEES**

Early registration before April 15, 2020.

Standard registration early \$950/ late \$1100

Student registration\* early \$500/ late \$600

\*undergraduate and graduate students only

Retiree registration early \$650/late \$750



June  
15  
2019

Call for Abstracts

February  
14  
2020

Acceptance  
Notifications

May  
02  
2020

Deadline for  
Early Registration

October  
31  
2019

Deadline for  
Abstract Submission

March  
31  
2020

Distribution of  
Final Program

June  
11  
2020

Deadline for  
Online Registration

January  
15  
2020

Online Registration  
available for 17<sup>th</sup> ICC

April  
15  
2020

Deadline for Early  
Registration for Presenters

June  
14  
2020

Start of the  
Congress

**VENUE**

San Diego is a vibrant city located on the Pacific Coast near the southern border of the great state of California. The city is the economic center of the San Diego-Tijuana metropolitan area and home to a diverse, multicultural population of 3.3 million residents. This world-renowned tourist destination has the perfect combination of pleasant weather, beautiful historic parks, outdoor dining activities, nightlife, and sandy beaches, making it a prime venue for the 17<sup>th</sup> ICC meeting. San Diego is the second largest city in California and host to a variety of captivating attractions and sight-seeing opportunities. Whether one prefers swimming in Mission Bay, taking a stroll in Balboa Park, or simply spending a day with the family at the famous San Diego Zoo, there is plenty to do and see regardless of the time of year. Visitors can choose from a bountiful selection of museums, art galleries, shops, parks, zoos, wineries, craft breweries, fine dining, and of course, the beaches by the Bay.

**EXHIBITION & SPONSORING**

We invite you to participate as an exhibitor/sponsor at the 17<sup>th</sup> International Congress on Catalysis. We expect more than 2500 academic and industrial researchers to participate in the meeting. For additional information please contact Thomas F. Degnan ([sponsors@2020icc.com](mailto:sponsors@2020icc.com)) for sponsorship and Paul Kester and Jesse Hensley ([exhibitors@2020icc.com](mailto:exhibitors@2020icc.com)) for exhibition.

**CONTACT US**

[Info@2020icc.com](mailto:Info@2020icc.com)



[WWW.2020ICC.COM](http://WWW.2020ICC.COM)



The Organizing Committee warmly invites you to participate in the 17<sup>th</sup> International Congress on Catalysis (ICC) to be held in San Diego, California, USA June 14-19, 2020. The congress is the premier technical gathering in surface and organometallic catalysis, industrial homogeneous and heterogeneous catalysis, electrocatalysis, photocatalysis, and catalysis in condensed media. This meeting brings together participants from academia, industry, and national laboratories, with a tradition of nurturing and mentoring students and young researchers. The 17<sup>th</sup> ICC is sponsored and organized by the North American Catalysis Society and its members welcome all of you, students and practitioners of catalysis, to submit your most significant work for presentation at this meeting.

Our global catalysis community has built the science, the enabling tools, and the engineering foundation needed to address the formidable challenges faced by humanity and our planet, as we strive to improve the quality of life for everyone while preserving natural resources and the environment for future generations. We send this invitation to the entire international catalysis community to come together to continue in this endeavor—sharing knowledge, bridging intellectual gaps, advancing our science, celebrating the achievements of our most accomplished members—and in building new collaborations and friendships.

The conference will be held at the Manchester Grand Hyatt — a recently renovated state-of-the-art facility with meeting rooms that accommodate up to 3000 conference attendees. The theme of the conference, 2020 Vision for Catalysis, aims to look into the future for catalysis research guided by the past and to assess the present state of catalysis in the context of what lies ahead. The program will highlight recent developments, challenges, and opportunities in the context of shifting feedstocks and in the discovery and development of experimental and computational methods.

Seven parallel oral sessions and three general poster sessions will feature exciting results at the crossroads of catalysis research. A social program steeped in the rich culture of southern California will give you the opportunity to interact with your colleagues in a relaxed environment.

Welcome on behalf of the 17<sup>th</sup> ICC Organizing Committee and its sponsoring organizations. We look forward to your contributions and participation in this 17<sup>th</sup> ICC and to seeing all of you in San Diego.

Enrique Iglesia  
Chairman, Organizing Committee  
17<sup>th</sup> International Congress on Catalysis

## CONFIRMED LECTURES

### PLENARY LECTURES

**Johannes Lercher**  
*TU München and Pacific Northwest National Laboratory*  
“Understanding and controlling hydrogen addition on metals, oxides, and sulfides: Nature and nuclearity of sites, solvents, and (electro)chemical potentials”

**Unni Olsbye**  
*University of Oslo*  
“Catalysis within confined spaces”

**Ye Wang**  
*Xiamen University*  
“Selectivity control in catalytic transformation of C<sub>1</sub> molecules into multicarbon products”

### KEYNOTE LECTURES

**Silvia Bordiga**, *Università Degli Studi di Torino*

**Avelino Corma**, *ITQ Valencia*

**Paul Dauenhauer**, *University of Minnesota*

**Sandeep Dhingra**, *Dow*

**Emiel Hensen**, *Eindhoven University of Technology*

**Leon Lefferts**, *University of Twente*

**Can Li**, *Dalian Institute of Chemical Physics*

**Fabio Noronha**, *National Institute of Technology, Rio de Janeiro*

**Isabella Nova**, *Politecnico di Milano*

**Jens Sehested**, *Haldor Topsoe*

**Bert Sels**, *KU Leuven*

**Kazuhiro Takanabe**, *University of Tokyo*

**Annette Trunschke**, *Fritz Haber Institute*

**Bert Weckhuysen**, *Utrecht University*

**Angelika Brückner**, *Leibniz-Institut für Catalysis*

**Nuria Lopez**, *Institut Català d'Investigació Química*

**Stacey Zones**, *Chevron*

**Philippe Sautet**, *University of California, Los Angeles*

**Jean-Paul Lange**, *Shell*

**Lynn Gladden**, *University of Cambridge*

## TOPICS

### Materials & Molecules

### Mechanisms & Pathways

### Reactors & Processes

C<sub>1</sub> Chemistry

Functionalization and Conversion of C<sub>2</sub>-C<sub>5</sub> Paraffins

H<sub>2</sub> Generation and Use

Syngas Generation and Use

Electrocatalysis and Photocatalysis Fundamentals

Reaction Engineering (Conventional and Modular Methods)

Environmental Catalysis (Gas and Liquid Phases)

Heteroatom Removal

Carbon-Carbon and Carbon-Heteroatom Bond Formation

Conversion of Biomass and Biomass-derived Molecules

Emerging and Cross-Cutting Topics in Catalysis

In-situ and Operando Analysis

Catalysis with Ordered Porous Materials (MOFs, Zeolites, etc.)

Catalysis for Chemical Synthesis (Commodity and Specialty)

Theory and Computation in Catalysis

Catalyst Synthesis and Characterization

Catalysis in Nitrogen Chemistry

Catalytic Cracking

Catalysis with Supported Metals

Catalysis with Oxides

Catalyst Deactivation

## ABSTRACT SUBMISSION AND PREPARATION

Please submit proposed contributions in the form of a two-panel, one-page abstract using an abstract template available on the submission website, <https://2020icc.com>. The deadline for abstract submission is October 31, 2019. A notice of acceptance of selected contributions (oral or poster) will be sent to the corresponding author in February 2020.

Instructions regarding poster preparation and audio/video facilities available at the venue will be provided with the notice of acceptance.

Full and regularly updated information regarding abstract submission and the technical program will be available on the conference website.

### REGISTRATION AND ACCOMMODATION

Registration will open on January 15, 2020. Participants are encouraged to register for the Congress early to take advantage of the registration fee discount.

Accommodation is available at a special rate for 17<sup>th</sup> ICC attendees at the Manchester Grand Hyatt. Please make your reservations via the 2020 ICC web page (<https://2020icc.com>) to take advantage of this discount.

