

NACS Newsletter

NOVEMBER 2009 • VOLUME XLIII, ISSUE 3 • WWW.NACATSOC.ORG

A Note from Your Incoming President

I am honored by this opportunity to serve our community and in awe of the challenges and opportunities that it presents.

I speak with the grateful voice of our community in acknowledging the dedication and contributions of the outgoing officers: John Armor and Umit Ozkan and of the continuing officers John Byrne and Edrick Morales. I also welcome Bruce Cook, Hong-Xin Li, and C.Y. Chen as new officers and thank them for their commitment to serve.

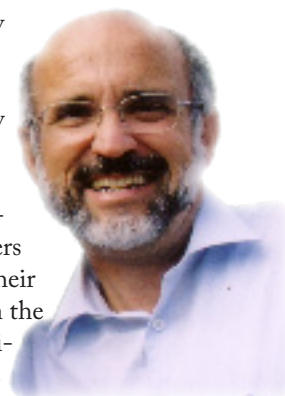
The youth, vigor, and quality evident at our 21st NAM in San Francisco served to confirm the intellectual and financial health of our discipline and of the North American Catalysis Society. Catalysis continues to serve as the enabling discipline in energy supply and conversion, in the synthesis of fuels and chemicals, and in our thoughtful care for the environment; it remains an essential contributor to quality of life and to sustainable growth in the world at large. As a discipline, its visibility and its support research base continue to grow, fueled by a combination of intellectual advances, new concepts and tools, evolving societal needs, and a consistent track record of practical impact.

The Society remains in excellent financial health. Its long-standing commitment to serve

the community remains firmly entrenched within our very active local clubs and their dedicated leaders and members and amongst their counterparts in the national organization. We are committed to

continue to return to our members the benefits of their dedication by growing our support for new generations of researchers and ideas, so that they enter safely and choose to stay. To balance novelty with history, we intend to expand our initiatives to preserve and proclaim our heritage and, in doing so, to recognize the contributions of the intellectual forces that shaped the concepts and tools upon which we build our future as a catalysis discipline.

We encourage your comments and suggestions, as well as your involvement in all activities and initiatives of the Society. You can always reach me via email at iglesia@berkeley.edu.



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Enrique Iglesia
President, North American Catalysis
Society
Berkeley, 20 October 2009

New ACS Division of Catalysis Science and Technology (CATL)

AMERICAN CHEMICAL SOCIETY
Catalysis and Science and Technology Division (CATL)



The American Chemical Society very recently established a new Division, The Catalysis Science and Technology (CATL) Division. This new ACS Division provides a home for the chemical science of industrial heterogeneous, homogeneous and bio-inspired catalysis within the ACS in a way that insures that a discussion of the chemical science of catalysis will be strongly coupled with discussions of its applications. Already, the new Division has been regularly programming symposia at both Spring

and Fall ACS Meetings, while also maintaining coordination with other ACS Divisions that have interests in more specific aspects of catalysis (fuels, petroleum processing, surface science, spectroscopy, theory, etc.).

Please consider joining the new CATL Division when you renew your ACS membership. Note that you may still join the ACS Division of CATL even if you have already renewed your annual membership by contacting ACS. If you're not already an ACS member, CATL should provide you the opportu-

nity to maximize the value of ACS membership for your research, and research career needs.

We also welcome those interested in organizing symposia for this new Division and those willing to help in the governance of this new Division. Feel free to contact me (chuck.peden@pnl.gov) with this interest.

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Gordon Conference on Catalysis – Program Announcement

The 2010 GRC on Catalysis will be held at Colby Sawyer College, NH from June 27, 2010 through July 2, 2010. The meeting chair is Abhaya Datye (datye@unm.edu) from the University of New Mexico in Albuquerque, NM and the Vice-chair is Bruce Cook (Bruce.Cook2@bp.com) from BP Products NA in Naperville, IL.

In 2010, the Catalysis conference will move to a newly-furbished conference room with seating for 150, a new poster session area that will allow 40 posters per session. The dorm rooms provide single and double accommodations, free WIFI and the registration fee includes all meals and the famous lobster dinner on Thursday night. Afternoons are open to enjoy the New England ambiance with opportunities for hiking, sailing, golf and tennis to create an outstanding conference that will help you network with colleagues, and make long lasting connections. Please visit the conference web site for more details and to register for the meeting: www.grc.org/programs.aspx?year=2010&program=catalysis

The 2010 GRC on Catalysis will focus on several areas that are of both fundamental and practical importance. The underlying theme is to highlight the role of catalysis in meeting society's needs for energy and materials. The conference is organized into 9 sessions:

1. Alternative Feedstocks For Chemicals And Fuels
2. Novel Catalytic Materials
3. 3D Imaging Of Catalysts
4. Spectroscopy, With Special Emphasis On Heterogeneous Catalysis In The Liquid Phase
5. Molecular Insights Through Theory
6. The Science Of Catalyst Synthesis
7. Design Of Catalysts For Exceptional Stability
8. Surface Science
9. Future Perspectives On Catalysis

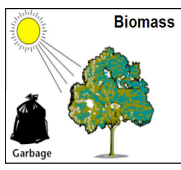
The themes and the speakers have been chosen to interweave academic and industrial interest, as has been the very effective tradition of this long running conference, and to illustrate broad, front concepts in the field of heterogeneous ca-

talysis. By including senior scientists as discussion leaders, we hope to add a diversity of perspective and enhance the level of discussions. A special effort was made to attract speakers and discussion leaders from industry. Financial support will be available for graduate students, post-docs and junior faculty. Please visit the NACS website in February 2010 for more details.


Gordon Conference on Catalysis

June 27 – July 2, 2010

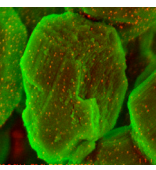
Catalysis: A Key Technology for Meeting Society's Needs for Energy & Materials




Renewable resources



Imaging & spectroscopy




Novel catalyst design and synthesis



Industrial applications

The conference will feature the following 9 sessions (*Discussion Leader/Speakers*):

1. Alternative feedstock for chemicals and fuels (*Bob Farrauto/George Huber/Brent Shanks*)
2. Design of novel catalysts (*Eric Lowenthal/Robert Schlögl/Levi Thompson*)
3. 3D characterization of catalysts (*Abhaya Datye/Fleming Besenbacher/Paul Midgley*)
4. Spectroscopy (*Peter Stair/Leon Lefferts/Clare Grey/Chris Williams*)
5. Molecular insights through theory (*Mark Barteau/Matthias Scheffler/Bill Schneider*)
6. Science of Catalyst Synthesis (*Scott Mitchell/John Regalbuto/Dan Shantz/Helge Toufar*)
7. Engineering of Catalysts for Exceptional Stability (*Bob McCabe/Hirohisa Tanaka/Gabriel Veith*)
8. Surface Science (*Galen Fisher/Ib Chorkendorff/Chuck Peden/Charlie Campbell*)
9. Future Perspectives (*Curt Conner/Johannes Schwank/Wayne Goodman*)



Colby Sawyer College, New London, NH

The 2010 GRC will move to a newly-furbished conference room with seating for 150 and a new poster session area that will allow 40 posters per session. The program will feature invited talks from the world's leading experts in the fundamentals and applications of catalytic science and technology. Colby-Sawyer is located in New London, New Hampshire in the heart of the Dartmouth-Lake Sunapee region, just 100 miles north of Boston. The Dartmouth-Lake Sunapee region is known for the natural beauty of its lakes and mountains. The retreat-like atmosphere is ideal for stimulating discussions, and helps foster new ideas and new science. Afternoons are free for networking while you enjoy the New England ambience with opportunities for hiking, sailing, golf and tennis. For further information, please visit the following web site or contact the conference chairs:

<http://www.grc.org/programs.aspx?year=2010&program=catalysis>

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Professor Corma with some members of Professor Flora Ng's research group taken in front of the Chemical Engineering Building of the University of Waterloo.

Clubs & Societies News

Canadian Catalysis Society

Professor Avelino Corma, Director of the Institute of Chemical Technology in Valencia, Spain, recipient of the 2006 Cross-Canada Lecture Tour award sponsored by the Canadian Catalysis Foundation, visited the Universities of Calgary, Saskatchewan and Waterloo during the week of September 21, 2009. At the Universities of Calgary and Saskatchewan, he gave a lecture entitled "Catalyst Design

for Green and Sustainable Chemistry". While at the University of Saskatchewan, he also visited the Canadian Light Source, a state of the art synchrotron research facility and the Saskatchewan Structural Sciences Center. At the University of Waterloo, Professor Corma gave a lecture on "Designing Zeolites for Adsorption and Catalysis". The lectures were stimulating and very well attended. Professor Corma also met with many researchers and research groups during his visit. A picture of Professor Corma with some members of Professor Flora

Ng's research group taken in front of the Chemical Engineering Building of the University of Waterloo is also attached.



The 21st Canadian Symposium on Catalysis will be held in the beautiful city of Banff, Alberta, May 9-12, 2010. The theme for the conference is "Catalyzing a Sustainable Future". More information is available on the website, www.21csc2020.ca. The deadline for abstract submission is **December 18, 2009**. Abstract should be submitted by email to 21cscabstract@chbe.ubc.ca using the template available at www.21csc2010.ca/web/abstract-submission.html. Separate files on the call for abstracts for the conference and the template for abstract submission are also attached.

Catalysis Society of Metropolitan New York

The Catalysis Society of Metropolitan New York revealed their new website design in September. The website features up to date information about meetings and events and online forms for meeting registration and annual membership.

The NYCS is asking for nominations for their annual Excellence in Catalysis Award. The award, sponsored by ExxonMobil Research and Engineering Company, consists of a plaque and a \$1,500 gift. It is granted to an individual or a research team from North America to recognize outstanding contributions in either applied or basic research in either homogeneous or heterogeneous catalysis. Nominations are accepted until January 31, 2010. The club also announced the 2010 Spring Symposium on March 17, 2010 at Lehigh University. For further details see the club's website at www.nycsweb.org.

Nominations for the annual Excellence in Catalysis Award should be sent to:

Prof. Marco Castaldi
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mc2352@columbia.edu



Mexican Catalysis Club (Academia de Catálisis)

Academia de Catálisis, A.C. from Mexico organized the X Mexican Congress on Catalysis, jointly with Centro de Nanociencias y Nanotecnología (UNAM). This event took place June 2-5, 2009. The venue was the beautiful city of Ensenada, Baja California located in the northwestern part of Mexico, near one of the most famous wine production regions in the country. Attendance was of nearly 40 scientists and 60 students working in different fields of catalysis and related topics. The congress included 5 plenary lectures from Academia and Industry, Keynote Lectures, Oral and Poster presentations. Also the new elected executive board for 2009-2011 took office at the end of the Meeting. Therefore, Dr. Alfredo Aguilar Elguézabal and Dr. Nancy Martin are the new elected President and Vicepresident, among other Directors, Treasurer and Secretary for the Academia de Catálisis, A.C.

Notes from the Michigan Catalysis Society

With the end of summer the Michigan Catalysis Society started the monthly seminar series. The 2009-2010 MCS season officially began on September 22nd with the visit of Professor Lanny Schmidt from the University of Minnesota who discussed his research on "Catalytic Reforming of Fossil and Renewable Fuels in Millisecond Reactors". On October 14th we welcomed Dr. Wieslaw Roth from ExxonMobil (retired) who presented a seminar on "Layered Zeolite Precursors; Expanding Zeolite Fundamentals and Applications". The closing seminar of the 2009 calendar year will take place on November 18th when Professor Mike Harold from the University of Houston will lecture on "Spatio-Temporal Features of NO_x Storage and Reduction in Pt/BaO/Al₂O₃ Monolithic Catalysts".

The New Year should provide equally interesting talks as the MCS will host Alex Katz from the University of California at Berkeley on February 16th, Jeff Miller from Argonne National Laboratory on March 10th, and Bruce Gates from the University of California at Davis on April 21st. The 2009-2010 season will come to a close in May 2010 at the 32nd Annual Spring Symposium of the Michigan Catalysis Society. The Spring Symposium will feature an invited plenary lecture from the winner of the 2010 Michigan Catalysis Society Giuseppe Parravano Memorial Award for Excellence in Catalysis Research and Development (to be announced in February

2010). Recent winners of this award include Levi T. Thompson – The University of Michigan in 2006 and George W. Graham – Ford Motor Company in 2008.

2010 Michigan Catalysis Society Giuseppe Parravano Memorial Award

The Michigan Catalysis Society is soliciting nominations for the 2010 Michigan Catalysis Society Giuseppe Parravano Memorial Award for Excellence in Catalysis Research and Development. The Award will be presented at the 32nd Annual Spring Symposium of the Michigan Catalysis Society in May 2010. The award winner will be invited to present an award address at the Symposium.

The award is given biennially to formally recognize outstanding contributions to catalytic science and technology by researchers in the greater Michigan area. To be eligible, a person must be a resident of Michigan or a neighboring area such as western Ontario or northern Ohio. Nominations can be submitted only by a member of the Michigan Catalysis Society. A committee that is appointed by the officers of the Michigan Catalysis Society will

select the recipient of the award. The award consists of a medal and a monetary prize of \$500. The award is sponsored by the Memorial Trust Fund for Professor Giuseppe Parravano and administered by the Michigan Catalysis Society. An e-mail of intent to nominate should be sent to steven.j.schmieg@gm.com by December 18, 2009.

Full nomination package must include the following:

1. Name, occupational address, phone, fax, and e-mail of the nominator.
2. Name, occupational address, phone, fax, and e-mail of the nominee.
3. Nominee's curriculum vitae and bibliography of significant publications.
4. A proposed citation - limit to 1 or 2 sentences.
5. A narrative statement describing the nominee's award qualifications.
6. One confidential letter of support requested by the nominator.

Letters of nomination and supporting documentation must be received by January 15, 2010. It should be sent (electronic communication preferred) to:

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30500 Mound Road
Mail Code 480-106-185
Warren, MI 48090-9055
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Fax: 586-986-8697
steven.j.schmieg@gm.com

The Organic Reactions Catalysis Society

The Organic Reactions Catalysis Society announces its 23rd Conference to be held March 14-18, 2010 in Monterey, CA USA. The conference will host focus sessions on chemicals from biorenewable resources and promises to be a premier event for scientists in this field. A new tutorial class, "Hydrogenation, an Indispensable Tool" will be offered during the conference. The course should be particularly valuable to industrial and academic scientists beginning work in this field and will be taught by leading scientists from the chemical industry. More information can be found at www.orcs.org.

The Southeastern Catalysis Society

The Southeastern Catalysis Society held its Annual Symposium at the Crown Plaza Resort in Asheville, NC on September 27-28. The meeting began on Sunday afternoon with the SCS-Eastman poster session featuring 13 contributed posters followed by dinner and lecture. This year the after-dinner lecturer was Prof. Bruce Gates who is Distinguished Professor of Chemical Engineering and Materials Science at the University of California-Davis. Gates is also the recipient of the 2009 Robert Burwell Lectureship in Catalysis awarded by the NACS. The title of his lecture was "Molecular Chemistry and Catalysis on Oxide and Zeolite Surfaces". Cash awards, sponsored by Eastman Chemical Company, were presented at the dinner for the top two student poster presentations. The first place winner was David Hibbitts of

University of Virginia for his poster on “First Principles Analysis of the Aqueous Phase Selective Oxidation of Ethanol over Model Pd, Au and Pt Surfaces.” Hibbitts is advised by Prof. Matthew Neurock. A second prize award was given to Yu-Tung Tsai of Clemson University for her presentation entitled “Co-Hydro-talcite Catalysts for CO Hydrogenation”. Co-authors on the presentation were Xunhua Mo and advisor Prof. James Goodwin. On Monday, Sep 28, the Symposium continued with 15 oral presentations including two invited presentations from Donna Chen of University of South Carolina and C. Heath Turner from University of Alabama. This year there were nearly 60 attendees from eight Universities, two national labs and five commercial labs and suppliers. The SCS acknowledges generous support of the Symposium from Altamira Instruments, Micromeritics, Quantachrome, and Cilas Particle Size. In addition, this year the NACS generously donated to the Symposium, allowing the Society to waive registration fees for many of the graduate student and postdoctoral oral presenters.

Tri-State Catalysis Society

The Tri-State Catalysis Society (KY, OH, and WV) held its Annual Spring Symposium on April 20th, 2009 at the Embassy Suites in Lexington, KY. The Symposium's Key Note Speakers were Dr. Bob Farrauto (Ciapetta Lecturer) from BASF Catalysts, LLC and Dr. Stu Soled from Exxon Mobil Research and Engineering Co. The Symposium covered a variety of topics using both oral and poster presentations: Fischer-Tropsch Synthesis, recent developments in zeolites, energy applications, and acceler-

ated laboratory testing of catalysts to enhance performance. The annual symposium was partly sponsored by Süd-Chemie Inc. and the University of Kentucky's Center for Applied Energy Research. The Symposium had wide participation from Industry and Academia (Süd-Chemie Inc., Degussa Catalysts, Velocys, University of Kentucky, University of Cincinnati, University of Louisville and Ohio State University). The Tri-State Catalysis Society also held a half day computational catalysis meeting at University of Kentucky's Center for Applied Energy Research

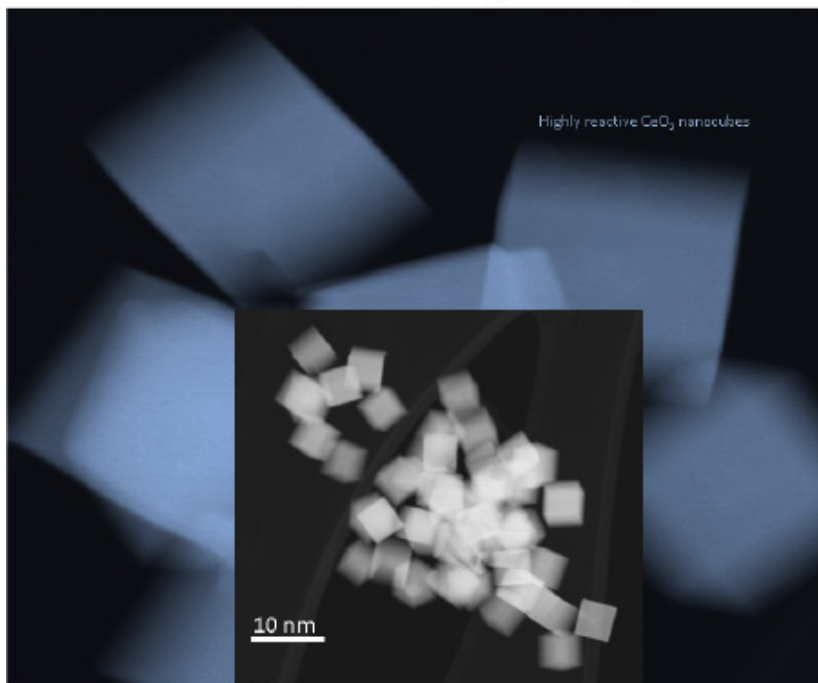
on August 25th, 2009. The meeting was held to explore the computational resources and expertise available at the advanced computing center at the University of Kentucky and its application to catalysis. The areas covered were catalyst modeling needs for fuel cells, Fisher-Tropsch, water-gas shift, and mixed metal oxide (V-Mo-Sb-P-O) type catalysts for partial oxidation of alkanes.



Tri-State Catalysis Society Symposium 2009

April 20, 2009

Embassy Suites Hotel, Lexington, Kentucky



Symposium Sponsors: Center for Applied Energy Research and Süd-Chemie, Inc.

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21st Canadian Symposium on Catalysis

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Catalyzing a Sustainable Future



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MAJOR THEMES:

Energy – fuel cells, hydrogen, heavy oil, renewables and syngas

Environment – sulphur, photocatalysis, green chemistry, pollution control

Nanotechnology – novel materials

Fundamentals – simulation and modeling, synthesis and characterization

General – reaction engineering, micro-reactors, homogeneous catalysis

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