

The  
**North American Catalysis Society**



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## NEWSLETTER

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### 19<sup>th</sup> North American Catalysis Society Meeting

The 19th North American Catalysis Society Meeting will be held in Philadelphia, Pennsylvania, U.S.A. on May 22-27, 2005. The meeting will be held at the beautiful Wyndham Franklin Plaza Hotel. The North American Catalysis Society (NACS) Meeting is a premier scientific event in the field of catalysis. It is a forum for the discussion of relevant technological issues and state of the art research. The FULL technical program is on the NAM website ([www.19nam.org](http://www.19nam.org)) under "Scientific Program" folder. There is a target to post the full meeting program and abstracts on the NACS web site before April. For complete information including scope, scientific program, Kokes Travel (Student) Awards, on-line registration form for the meeting and the discounted hotel, and a list of contacts please visit the web site at [www.19nam.org](http://www.19nam.org).

### Progress Report on 2007 NAM Meeting

This a progress report on the activities of the Southwest section in preparation to host the 20<sup>th</sup> North American Meeting of the Catalysis Society. The meeting will be held in Houston, at the new Hilton Americas located downtown on June 17-22 of 2007. Professor Kerry Dooley (Louisiana State University) is the meeting Chair, Brendan Murray (Shell Chemical) is co-Chair and Treasurer, and Professor Wayne Goodman (Texas A&M) and Michel Daage (ExxonMobil) are the Technical Program co-Chairs. When activated, the web site address will be [www.20nam.org](http://www.20nam.org).

### New Job Postings Bulletin Board on Website

We've added a new feature to the NACS web site, [www.nacatsoc.org](http://www.nacatsoc.org), a bulletin board for job postings (post doc, faculty, industrial, and any other). Just click open the "Jobs Posting" folder on the left margin of any web page. If you have a position that is CATALYSIS RELATED in North America, for which you are seeking candidates, send it to the contact address for the web site, and we will post it there. The intent is to offer this as a service to those seeking jobs in catalysis within North America. When you fill the position, send us another message to remove the posting. Our public web site gets over 1000 hits/month, with over 60,000 hits in the 3 years since the Fall of 2001! We've beta tested this new service and now have several recent postings. If you have other postings that you seek to fill or other suggestions, let us know.

### Election for Directors at Large

#### Ballot and Reply Envelope Enclosed

In addition to the open call for candidates via the last Newsletter, a subcommittee was appointed to offer names of potential candidates at a national level. Those who expressed an interested in running for Director-at-Large were asked to provide a 50 word summary on their background/qualifications (education, employer and role, accomplishments, email address, etc). Four candidates will be selected from paper ballots sent to full members of the NACS with this Newsletter. **Ballots must be received by Wednesday, April 25, 2005.** Two or three

runner-up candidates will be held in reserve as substitutes in the event that one of the elected Directors also becomes an officer of the Society at the elections of the Board (a Board member is only permitted to hold one elected office on the Board). Each Director is asked to represent the interests of all the members at annual board meetings for the next 4 years, where attendance is expected. With this mailing of the Newsletter, each member will receive a paper ballot with the following ten names. **Please mark off only 4 names**, and put your ballot into the envelope provided, seal and sign the outside of the self-addressed envelope with your name, add a stamp, and mail the envelope to assure delivery before April 25, 2005. Ballots received with more than 4 names checked or without a signature on the attached outer envelope will be disqualified.

## Candidate Slate

### Michael Amiridis

Michael is the Chairman of the Department of Chemical Engineering at the University of South Carolina (USC). He received his Ph.D. from UW-Madison in 1991, and worked as a research engineer in the Catalysis Research Division of W.R. Grace (1991-1994). His research focuses on supported bimetallic nanoparticles with well-defined structure and composition for applications in NO<sub>x</sub> control and hydrogen production and purification.

### John Armor

John is currently President of the NACS and has served in many different roles in the NACS for more than 16 years. He is a consultant and has worked for Air Products & Chemicals (19 years) and Allied Corporation (11 years), taught at Boston University (4 years) and has served as Editor of *Cattech* and *Applied Catalysis A&B*.

### Jingguang G. Chen

Dr. Chen currently holds the positions of Professor of Chemical Engineering and Director of the Center for Catalytic Science and Technology (CCST) at the University of Delaware. He has published over 140 papers in refereed journals and 15 United States Patents. He served as the Chair of the Gordon Research Conference on Catalysis in 2002.

### Michael Daage

Dr. Daage's (Distinguished Research Associate, ExxonMobil) contributions and inventions to catalysis cover technologies for the refining industry, including fuels/lubes hydroprocessing, selective ring opening, selective catalytic dewaxing and GTL (FT and wax upgrading). His publications and patents highlight the importance of fundamentals in catalysis and their application to commercial processes.

### Bruce Gates

Bruce Gates is now a Director-at-Large. He helped organize a NAM in Philadelphia and is co-chair of the 2009 San Francisco NAM. He edits *Advances in Catalysis* and contributes regularly to catalysis meetings and journals. He worked at Chevron, University of Delaware, and now University of California, Davis.

### James G. Goodwin, Jr.

Professor and Chairman of the Department of Chemical Engineering at Clemson, received his PhD in chemical engineering at the University of Michigan in 1976. Prior to moving to Clemson in 2000, he was William Kepler Whiteford Professor of Chemical Engineering at the University of Pittsburgh.

### Christopher L. Marshall

Christopher Marshall is Group Leader of the Heterogeneous Catalysis Group at Argonne. His group is developing catalysis as a core competency at Argonne. His research efforts include catalyst characterization using in situ XAFS and programs in catalytic membranes, hydrodesulfurization, phenol production, Fischer-Tropsch chemistry, hydrogen synthesis, hydrocarbon based deNO<sub>x</sub>, and methanol synthesis.

### Dan Resasco

Dan is the George Lynn Cross Professor at the University of Oklahoma and the S. A. Wilson Professor of Chemical Engineering. He has 110 publications and 19 patents, and he is one of the Editors of the Journal of Catalysis. He has received the 2004 Oklahoma Chemist Award (ACS). His areas of research are hydrocarbon conversion and Nanotechnology.

### George W. Roberts

George ([groberts@eos.ncsu.edu](mailto:groberts@eos.ncsu.edu)) is Professor of Chemical and Biomolecular Engineering at North Carolina State. His research and teaching interests are focused on heterogeneous catalysis and catalytic reactor analysis. Previously, he held positions with Air Products and Chemicals, Inc., Engelhard Corporation, Washington University (Saint Louis), and Rohm and Haas Company.

### Stu Soled

Stu Soled has worked 24 years at the ExxonMobil Corporate research laboratories in New Jersey as a member of the research staff. His interests have been in helping develop structure function relationships in solid acid, Fischer-Tropsch and hydrotreating chemistry. He is a recipient of NY catalysis society annual award as well as the NJ Edison Innovators award.

## Club/Society News

### *The Catalysis Division, The Canadian Society for Chemistry.*

The 18th Canadian Symposium on Catalysis was a success with more than 130 technical presentations and the participation of a large number of graduate students and postdoctoral fellows. Many thanks to Dr. Jitka Kirchnerova and her organizing committee. The next Canadian symposium will be held in Saskatoon, SK, in May 2006. Prof. Ajay Dalai has already formed an organizing committee. With the newly built Canadian Light Source synchrotron facilities being in operation, the 19th CSC should be very interesting.

The Cross-Canada Lecture Tour award is made to a person who is currently active in the field of catalysis and is recognized as a leader in her/his field, without regard to nationality or where the research is carried out. This Tour is sponsored by the Canadian Catalysis Foundation with lectures given in 4 to 6 locations across Canada. Previous winners include Mark Barteau (1993), Lanny Schmidt (1994), Mark Davis (1996), Leo

Manzer (1998), Bob Farrauto (2000) and Harold Kung (2002).

**Dr. James Dumesic** is this year's winner. Dumesic is the Steenbock Professor of Chemical Engineering at the University of Wisconsin in Madison. He is well known for his leading-edge work in kinetic modeling of heterogeneous catalyzed reactions and is considered one of the worldwide leaders in this field. Dumesic is the author of more than 270 publications in the field of catalysis. He is the recipient of the Colburn Award - AIChE, the Emmett Award - North American Catalysis Society, and the Wilhelm Award - AIChE. He received the Parravano Award from the Michigan Catalysis Society, the Byron Bird Award for Excellence in Research at the University of Wisconsin, the Herman Pines Award from the Chicago Catalysis Club, and he was recognized in the Scientific American Top 50 Technology Leaders of 2003. He was elected to the National Academy of Engineering in 1998. Dumesic received a B.S. in Chemical Engineering from the

University of Wisconsin and a Ph.D. from Stanford University.

The Canadian Catalysis Lectureship Tour award is made annually to a Canadian researcher who is recognized as a leader in a particular field of catalysis, or someone who has just completed a new and interesting/controversial piece of work but is not widely recognized. This Tour is sponsored by the Canadian Catalysis Foundation with lectures given in 4 to 6 locations across Canada. Previous winners include Yoshimitsu Amenomiya (1994), Jerry Kriz (1995), John Moffat (1996), Karl Chuang (1997), Serge Kaliaguine (1998), Brian James (1999), Tom Ziegler (2000), Marten Ternan (2001), Warren Piers (2002) and Charles Mims (2003).

**Dr. Philip Jessop** is the 2004 winner. He is an Associate Professor in the Chemistry Department at Queen's University in Kingston, Ontario, and is the holder of an NSERC Canada Research Chair in Green Chemistry. He received his B.Sc. in Chemistry

from the University of Waterloo and a Ph.D. from the University of British Columbia, where he studied the synthesis and reactivity of phosphine ruthenium complexes under the direction of Dr. Brian James. Dr. Jessop carried out postdoctoral research at the University of Toronto with Dr. Robert Morris before taking a position in the Research Development Corporation of Japan in a project headed by 2001 Nobel Prize winner, Professor Ryoji Noyori, investigating hydrogenation in supercritical CO<sub>2</sub>. From 1996 to 2003 he served as an Assistant Professor at the University of California-Davis, and in 2003 he took up his current position at Queen's University. His research interests include homogeneous catalysis in unusual solvents (supercritical fluids, ionic liquids, and gas-expanded liquids) and the catalytic conversion of CO<sub>2</sub> to useful products.

### *The Catalysis Club of*

*Philadelphia* Each year the Catalysis Club of Philadelphia recognizes an outstanding member of the catalysis community. This award is given in recognition of the contributions to the advancement of Catalysis. Such an advancement can be scientific, technological, or in organizational leadership. Those wishing to submit a nomination should send a letter of recommendation along with any other pertinent materials. The entire nomination package, including a resume and support letters, should

not be more than 10 pages. The deadline for the receipt of nominations is April 18, 2004. All materials or questions should be directed to:

Dr. Hasan Dindi, DuPont Chambers Works, Jackson Laboratory, Room 206 Deepwater, NJ 08023 Phone (856) 540-4989 FAX: (856) 540-2344 hasan.dindi@usa.dupont.com

### *The Catalysis Society of Metropolitan New York*

is pleased to announce that **Professor Fabio Ribeiro** of Purdue University is the 2005 recipient of the Society's Excellence in Catalysis Award, sponsored by ExxonMobil Research and Engineering Company. Professor Ribeiro is being recognized for his creativity and outstanding accomplishments in the field of heterogeneous catalysis. His work is broadly recognized and characterized by complete attention to detail, and careful experimental design to precisely answer important questions in catalysis. This award recognizes Professor Ribeiro for his use of the combination of structural characterization, chemical kinetics, and ab initio calculations to understand catalytic systems at a fundamental level. Professor Ribeiro's career is marked by success and achievement at every stage including graduate and post graduate studies with Michel Boudart and Gabor Somorjai, industrial research at Catalytica Incorporated, and faculty appointments at Worcester Polytechnic and Purdue University.

In a relatively short period of time, Professor Ribeiro has provided key insights into numerous important and diverse catalytic systems, such as catalytic combustion, hydrodechlorination, hydrocarbon rearrangement on alloy surfaces, and properties of oxygen-modified transition metal carbides.

### *The Northwestern University Center for Catalysis and Surface Science*

is pleased to announce that **Dr. Enrique Iglesia**, Professor of Chemical Engineering at the University of California, Berkeley will serve as the V. N. Ipatieff Lecturer for 2005. Lectureship was established in 1988 to enhance the educational experience of graduate students and postdoctoral researchers by sponsoring extended, up to one month, visits to the Center by internationally distinguished researchers in catalysis. The lectureship is named after Professor Vladimir N. Ipatieff, the father of high-pressure heterogeneous catalysis and the founder of the Ipatieff High Pressure Laboratory at Northwestern University. Professor Iglesia is Editor-In-Chief of the Journal of Catalysis, Director of the Berkeley Catalysis Center, and among numerous awards, he is the recipient of the 2005 George A. Olah Award in Hydrocarbon Chemistry of the American Chemical Society. In addition to travel and living expenses associated with his visit, Professor Iglesia will receive an honorarium.

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This Newsletter is a publication of The North American Catalysis Society, President: Dr. John N. Armor, Consultant-GlobalCatalysis.com; Vice President: Dr. Gary McVicker, ExxonMobil; Secretary: Dr. Umit S. Ozkan, Chemical Engineering Dept, Ohio State University, Columbus, Ohio 43210, ozkan.1@osu.edu; Treasurer: Dr. John W. Byrne, Engelhard; Foreign Secretary: Dr. Curt Conner, University of Massachusetts; Past President: Dr. M. Albert Vannice, Penn State Univ.; Directors-at-Large: Dr. Bruce Gates, UC, Davis, Dr. John Armor, GlobalCatalysis.com, Dr. Gary McVicker, ExxonMobil, Dr. Kathleen Taylor, Club Representatives: California-Dr. E. Iglesia; Canada-Dr. J. Monnier; Chicago-Dr. C. Marshall; Mexico-Dr. M. Viniestra; Michigan-Dr.

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