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## New Award: Michel Boudart Award for the Advancement of Catalysis



The Michel Boudart Award for the Advancement of Catalysis is sponsored by the Haldor Topsøe Company, and is administered jointly by the North American Catalysis Society and the European Federation of Catalysis Societies. The Award will be presented biennially in odd numbered years. The recipient will give plenary lectures at the biannual meetings of the **North American Catalysis Society** (NAM) and the European Federation of Catalysis Societies (EFCATS) (EuropaCat). The award consists of a plaque or object of art and a prize of \$6,000. Up to an additional \$2,000 will be made available for otherwise non-reimbursed travel expenses.

The Award recognizes and encourages individual contributions to the elucidation of the mechanism and active sites involved in catalytic phenomena and to the development of new methods or concepts that advance the understanding and/or practice of heterogeneous catalysis. The Award selection process will emphasize accomplishments and contributions published within the five preceding years. Candidates may be nominated without any restriction of national origin, thus reflecting the international scope of the career and contributions of Michel Boudart.

The recipient of the Michel Boudart Award will be selected by a committee of renowned researchers appointed jointly by the Presidents of the North American Catalysis Society and the European Federation of Catalysis Societies. The selection shall be made without regard for age, sex,

affiliation, or national origin.

Nominations should clearly state the qualifications and accomplishments of the nominee and should also include a biographical note and two supporting letters. A critical evaluation of the significance of publications and patents should be made, as well as a statement of the particular contribution(s) on which the nomination is based.

One complete electronic copy of the nomination packages for the 2007 Boudart Award should be sent to the President of The North American Catalysis Society (John Armor; [jnagcat@verizon.net](mailto:jnagcat@verizon.net)) or the President of The European Federation of the European Catalysis Societies (Roel Prins; [prins@tech.chem.ethz.ch](mailto:prins@tech.chem.ethz.ch)). The first nomination is due on 20 November 2006.

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### Stuart Soled

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Engineering Co.

# Nominations open for Paul H. Emmett Award in Fundamental Catalysis

The Paul H. Emmett Award in Fundamental Catalysis is sponsored by the Davison Chemical Division of W.R. Grace and Company. It is administered by The Catalysis Society and is awarded biennially in odd numbered years, generally at the **North American meeting of The Catalysis Society**, where the awardee will be asked to give a plenary lecture. The

nationality or affiliation. The award winner shall not have passed his/ her 45th birthday on April 1 of the award year, thus nomination documents should indicate the age and birth date of the nominee. [The next award is the 2007 Award year for this Emmett Award (nominations due by November 1, 2006). Thus, nominees should not have passed their 45th birthday

Nomination packages for the Award must be received by 1 November 2006. All nomination packages (one complete ELECTRONIC COPY) for the Emmett Award should be addressed to John Armor, President, North American Catalysis Society; 1608 Barkwood Dr., Orefield, PA 18069 USA at [jinagcat@verizon.net](mailto:jinagcat@verizon.net). An email receipt message will be sent to each nominator.

## Nominations due by November 1<sup>st</sup>, 2006

award consists of a plaque and a prize of \$3,000. An additional \$500 is available for otherwise no reimbursed travel expenses.

The purpose of the Award is to recognize and encourage individual contributions in the field of catalysis with emphasis on discovery and understanding of catalytic phenomena, proposal of catalytic reaction mechanisms and identification of and description of catalytic sites and species. Selection of the Award winner will be made by a committee of renowned scientists and engineers appointed by the President of The North American Catalysis Society. Selection shall be made without regard for sex,

on April 1, 2007.] Posthumous awards will be made only when knowledge of the awardees' death is received after announcement of the Award Committee's decision. Nominations for the Award should present the nominee's qualifications, accomplishments, birth date, and biography. A critical evaluation of the significance of publications and patents should be made as well as a statement of the particular contribution(s) on which the nomination is based. Nomination documents should be submitted electronically to the President of the Society along with no more than two seconding letters.

### Previous Awards Winners

1971	Richard J. Kokes
1973	John H. Sinfelt
1975	Jack H. Lunsford
1977	Gabor A. Somorjai
1979	Gerhard Ertl
1981	Peter A. Jacobs
1983	Robert J. Madix
1985	Alexis T. Bell
1987	M. Albert Vannice
1989	James A. Dumesic
1991	Harold Kung
1993	Mark Barteau
1995	Mark Davis
1997	Enrique Iglesia
1999	Raymond Gorte
2001	Donna Blackmond
2003	Francisco Zaera
2005	Matthew Neurock

# Canadian Catalysis Division

The official opening of the University of Ottawa's Centre for Catalysis Research and Innovation (CCRI) took place on May 11, 2006. Currently, the CCRI is comprised of more than 130 researchers including 19 principal investigators. The opening was attended by more than 250 people, and included a technical program consisting of 4 lectures presented by world leading catalysis

researchers, including two Nobel Laureates in Chemistry. These lectures, listed below, are available on-line via the CCRI website:

<http://www.science.uottawa.ca/ccri/ccri.htm>

- Dr. Richard R. Schrock (2005 Nobel Laureate), "Catalytic Reduction of Dinitrogen to Ammonia at Room Temperature and Pressure at a Sterically Protected Single Molybdenum Center".
- Dr. Jacques Védrine, "Nanoparticles in

Heterogeneous Catalysis. Nano Oxides for Selective Oxidation of Light Alkanes. A High-Thoroughtput Approach".

- Dr. K. Barry Sharpless (2001 Nobel Laureate), "The Secret Life of Enzymes".
- Dr. Gabor Samorjai, "Frontiers of Catalysis Science in the 21st Century. The Science of Selectivity and the Merging of Heterogeneous, Homogeneous and Enzyme Catalysis".

## Dr. Steven Brown Receives 2006 Catalysis Award

Dr. Steve Brown, Principal Scientist, from NOVA Chemicals Corporation in Calgary, AB, received the 2006 Catalysis Award of the Chemical Institute of Canada for his pioneering work in polymer single site catalyst development and

technologies, and his contribution to the commercialization of NOVA's SCLAIRTECH™ polyethylene plant. Sponsored by the Canadian Catalysis Foundation, this prize is given in even-numbered years to a researcher who,

while resident in Canada, has made a distinguished contribution to the field of catalysis. Dr. Brown received a rhodium-plated silver medal and travel expenses to present his Award Lecture at the 19<sup>th</sup> Canadian Symposium on Catalysis.

## 19<sup>th</sup> Canadian Catalysis Symposium was held in Saskatoon on May 14, 2006

In October 2006 all members of the Canadian Catalysis Division received the 2nd edition of "Catalysis in Canada". This updated edition, prepared by Alan Sanger and Jacques Monnier, documents the history of catalysis research in Canada, including the establishment of the Catalysis Division of the Chemical Institute of Canada, and the Canadian Catalysis

Foundation.

The 19<sup>th</sup> Canadian Catalysis Symposium was held in Saskatoon from May 14-17, 2006 with 156 researchers from 13 countries giving over 120 oral technical papers and 52 poster presentations in 4 plenary lectures, 15 keynote lectures, and several topical sessions. Conference attendees were given the opportunity to visit the recently

constructed Canadian Light Source synchrotron facility. An industrial panel discussion was arranged, thus highlighting the Conference theme – 'Building Bridges between Academy and Industry'. The 20<sup>th</sup> Canadian Symposium on Catalysis will be held in Kingston, ON in June 2006.

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[jmonnier@nrcan.gc.ca](mailto:jmonnier@nrcan.gc.ca)

# The Catalysis Club of Chicago - Program

- Oct. 9, 2006 **Brent Shanks**  
Iowa State University  
"Heterogeneous Catalyst Design for Biorenewable Conversion"
- Nov. 6, 2006 **Susannah Scott**  
University of California at Santa Barbara  
"Redesigning Heterogeneous Catalysts for the Metathesis of Alkenes and Alkanes, with Insight from Organometallic Chemistry"
- Dec. 4, 2006 **Matthew Neurock**  
University of Virginia  
"Fundamental Insights into Fuel Cell Catalysis using Density Functional Theory"
- Jan. 8, 2007 **J. W. Adriaan Sachtler**  
UOP Corporation  
"Combinatorial Catalysis Efforts at UOP"
- Feb. 12, 2007 **Stuart Soled**  
ExxonMobil Corporation  
"Recent Advances in the Synthesis of Catalytic Materials"
- March 12, 2007 **Leo Manzer**  
Catalytic Insights Inc.  
"Catalytic Biomass Conversion to Useful Products"
- April 9, 2007 **Scott Anderson**  
University of Utah  
"Catalysis of Supported Size-selected Clusters"
- May 16, 2007 **Spring Symposium**

The screenshot shows the website for the Catalysis Club of Chicago (CCC). At the top, there is a navigation bar with links for CCC Program, CCC Reservations, CCC Officers, CCC Bylaws, Catalysis Meetings, NACS, and Awards. Below this is a banner for the "Program for the Catalysis Club of Chicago 2006 - 2007" with two circular images of Chicago. The main content is a table listing the program events, including dates, speakers, and topics. Below the table is a weather widget for Chicago, IL, showing a partly cloudy sky, a temperature of 48°F, and a wind speed of 7.5 mph. At the bottom, there are several links for more information, including "Home", "About Us", "Contact Us", and "Privacy Policy".

## 2007 Spring Symposium

Our Spring Symposium will be May 16th, 2007 and will feature keynote talks from Alexis Bell of the University of California at Berkeley and Galen Fisher of Delphi Corporation. In addition, the symposium will have an invited talk from our annual Herman Pines award winner and selected other oral contributions as well as a poster session.

For reservations or further information contact the CCC Secretary, Dr. A. Jeremy Kropf  
Chemical Engineering Division  
Argonne National Laboratory  
9700 South Cass Avenue  
Argonne, IL 60439-4837  
Phone 630-252-9398  
Fax 630-252-9373  
[Kropf@cmt.anl.gov](mailto:Kropf@cmt.anl.gov)

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# The Catalysis Club of Philadelphia

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[anne.gaffney@us.abb.com](mailto:anne.gaffney@us.abb.com)



Professor Jingguang Chen, University of Delaware and Pass Chair of the CCP, presented Professor Dumesic with the 2006 Catalysis Club of Philadelphia Award for his pioneering contributions to the kinetics and mechanisms of catalytic reactions. He is also recognized for the development of concepts

and tools for elucidating structure-property relationships for the discovery of new catalysts.

After receiving the award, Prof. Dumesic presented the 2006 Catalysis Club of Philadelphia Award Lecture to a full house.

## Program

28-Sept-2006	<b>Prof. James Dumesic</b> University of Wisconsin-Madison	Catalytic Production of Liquid Fuels and Chemicals from Biomass-derived Oxygenated Hydrocarbons
28-Sept-2006	<b>Rohit Vijay</b> University of Delaware Student speaker, 15 minutes	High throughput experimentation and its applications to NOX storage and reduction (NSR) catalysts
19-Oct-2006	<b>Dr. Steven H. Overbury</b> Oak Ridge National Laboratory	Experimental and Computational Studies of Reaction Pathways and Size Dependence in Au Catalysis
19-Oct-2006	<b>Parag R. Shah</b> University of Pennsylvania Student speaker, 15 minutes	Redox Properties of Supported Vanadium Systems
9-Nov-2006	<b>Dr. Stuart Soled</b> ExxonMobil 2006 Ciapetta Lecturer Joint meeting with the Catalysis Society of Metropolitan New York	Supported Metal Catalysts: Some Interesting New Leads In An Old Field And Use Of Zeta Potential Measurements In Catalyst Characterization
25-Jan-2007	<b>Prof. Lanny Schmidt</b> University of Minnesota	Hydrogen from Renewable Fuels in Millisecond Reactors
22-Feb-2007	<b>Prof. Galen Stucky</b> University of California at Santa Barbara	Title to be announced
22-Mar-2007	<b>Dr. Andy Walker</b> Johnson Matthey	Autocatalysts: Past, Present, and Future
22-Mar-2007		Student Poster Competition
19-Apr-2007	<b>Dr. Stacey Zones</b> Chevron	Title to be announced
19-Apr-2007		Election of new officers
17-May-2007		Spring Symposium



# Michigan Catalysis Society

Nominations are invited for the **2007 Michigan Catalysis Society Giuseppe Parravano Memorial Award for Excellence in Catalysis Research**. The Award will be presented at the Twenty-Seventh Annual Spring Symposium of the Michigan Catalysis Society, in May of 2007. The award winner will be invited to present an award address at the meeting.

The award is given biennially to an individual from North America to recognize outstanding contributions to catalytic science and technology. The recipient of the award

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

## Annual Symposium



The Twenty-Seventh Annual Michigan Catalysis Society (MCS) spring symposium will take place at Ford Motor Company in Dearborn on May 10, 2007.

## Deadline for Parravano Memorial Award is Jan. 12, 2007

will be selected by a committee that is appointed by the officers of the Michigan Catalysis Society. The award consists of a medal and prize of \$500. The award is sponsored by the Memorial Trust Fund for Professor Giuseppe Parravano, and is administered by the Michigan Catalysis Society.

An E-mail of intent to nominate would be appreciated by November 17, 2006.

Nominations must be submitted in English, and must include the following:

by the nominator

**Letters of nomination and supporting documentation must be received by January 12, 2007, and should be sent to:**

Jong H. Lee  
General Motors R&D Center  
MC 480-106-185  
30500 Mound Road  
Warren, MI 48090-9055  
(248) 249-9242  
[jong-hwan.lee@gm.com](mailto:jong-hwan.lee@gm.com)

## Meeting Program



Nov 8, 2006

**Aleksey Yezerets, Ph.D.**,  
Cummins

Title: Environmental  
Catalysis for Mobile Lean  
Exhaust Emissions

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[galen.b.fisher@delphi.com](mailto:galen.b.fisher@delphi.com)

## Catalysis Society of Metropolitan New York

The Catalysis Society of Metropolitan New York is seeking nominations for its twenty-sixth annual "**Award for Excellence in Catalysis.**" 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. *Particular effort is made to identify worthy individuals or teams who have not received sufficient recognition for their work.*

*This award will bring due recognition to the recipient(s), and we appreciate your help in seeking first-rate candidates. We especially need to fortify our active nomination list! Nominations are solicited from anyone who is currently, or has been previously, active in the field of catalysis. Nominations previously submitted as well as new ones will remain active for a period of three years.*

Those wishing to submit a nomination should write a letter of recommendation for the individual nominee or team, including pertinent biographical information and a specific description of the impact of the nominee's

achievements in catalysis. The maximum length of the letter should be no more than two pages. It may be accompanied by copies of no more than two items presenting important documentation, such as papers or patents.

Deadline for receipt of nominations is **January 31, 2007.**

Nominations for consideration should be sent to:

**Dr. Colin Beswick**  
(Bldg: R&D, Rm: 212)  
BASF Catalysts LLC  
25 Middlesex-Essex Turnpike  
Iselin, NJ 08830  
[colin.beswick@basf.com](mailto:colin.beswick@basf.com)

## 2007 Spring Symposium

### CALL FOR ABSTRACTS

The Catalysis Society of Metropolitan New York invites you to submit abstracts of papers for oral or poster presentation at the annual 2007 Spring Symposium. As a heading of the abstract please list the title, author(s) (underline the speaker) and affiliation. The length of the abstract should not exceed one page, single-spaced. Approximately twenty minutes will be allotted for each oral presentation, followed by a short discussion period.

Times will be strictly monitored so as to encourage a thorough discussion. In addition awards will be given to the best posters. Graduate students will be awarded a first prize of \$125, a second prize of \$75 and a third prize of \$50 for their poster presentations.\* Post-doctoral fellows will be awarded a first prize of \$125 for their poster presentation.\* You are all urged to reserve the date and participate in the Spring Symposium.

The deadline for receipt of abstracts is Wednesday, January 31,

2007. You will be notified of consideration for the Symposium by Friday, February 9, 2007.

Those submitting paper(s)/poster(s) for consideration for the Spring Symposium should send or e-mail them to:

**Dr. Colin Beswick**  
(Bldg: R&D, Rm: 212)  
BASF Catalysts LLC  
25 Middlesex-Essex Turnpike  
Iselin, NJ 08830  
[mcolin.beswick@basf.com](mailto:mcolin.beswick@basf.com)

NOTE: Award value and distribution may change based on the number of poster submissions in each category.

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# The Pacific Coast Catalysis Society

The Pacific Coast Catalysis Society (recently evolved from the California Catalysis Society) held its first annual meeting on Sept. 8, 2006 in Seattle, in the Waterfront Activities Center on the University of Washington campus. The meeting was well attended, with 34 attendees and 21

presentations, and lots of active discussion. The invited speakers were: Stuart Soled (Exxon), who gave the Ciapetta, Enrique Iglesia (UC Berkeley, who gave the Burwell Lecture, Isabel DiCosimo (UNL Argentina), Bob Madix (Harvard), Yong Wang (PacPNL), and David Trimm (CSIRO Australia).

Three students received travel awards from the NACS to attend and present. The talks were followed by a poster session, a reception and finally a banquet, served at sunset just outside on the deck overlooking beautiful Lake Washington and the Cascade Mountains.

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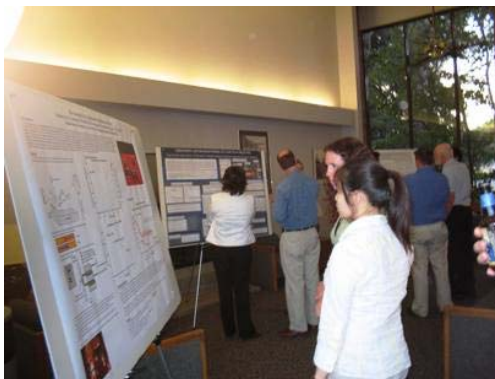
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Enrique Iglesia gives Burwell lecture



Poster Session



View of the Deck



Reception



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#### American Catalysis Society

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Marathon Ashland Petroleum  
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# Tri-State Catalysis Society

## Annual Symposium

The Annual Symposium of the Tri-State Catalysis Society was held on September 13, 2006 in Lexington, KY. The meeting was very successful and well attended. The majority of the papers presented

focused on energy related areas. The Keynote addresses were offered by Dr. Mark Crocker of CAER with a paper on bio-diesel, and Dr. Vesselin Shanov of the University of Cincinnati with a paper on Carbon Nano Structured materials. Both

Shanov's seminar and that of Robert Schlägl, Max Planck Institute, on March 27, 2006, demonstrated soundly that carbon nanomaterials have some amazing properties as catalysts and supports.

The annual symposium will be held either in May or in September 2007.

# Tri-State News

## Seminars

The new series of Seminars will start in October with the seminar of Professor Tasos Angelopoulos of the CME Department, University of Cincinnati, on Low

Temperature Fuel Cells.

## Awards

Dr. Peter Smirniotis, University of Cincinnati, received the "2006 North Central Young Investigator

Award" of the SIGMA XI Scientific Research Society.

# ORCS ORGANIC REACTIONS CATALYSIS SOCIETY

The **22nd Conference on Catalysis of Organic Reactions** will be held at the Jefferson Hotel in Richmond, Virginia. The conference will begin March 30, 2008 and conclude April 3, 2008. Additional conference and registration information will be posted at the web site soon ([www.orcs.org](http://www.orcs.org)). Exhibitors and vendors interested in participating should contact Michael Prunier, the 2008 ORCS Chair ([chairman@orcs.org](mailto:chairman@orcs.org)).



## Key Dates:

- August 21, 2006** - Call for Abstracts
- December 8, 2006** - Abstract Submission Deadline
- February 23, 2007** - Notice of Acceptance
- April 13, 2007** - Deadline for Early Registration

Visit us at  
[www.20nam.org](http://www.20nam.org)

## Gordon Research Conference

The 2006 Gordon Research Conference on Catalysis, chaired by Prof. Robert Davis, was held at Colby-Sawyer College from June 25<sup>th</sup> through June 30<sup>th</sup>. Because of a high level of interest in the catalysis community, the conference could not accept all of the applications to attend. Nearly 120 conferees participated in the meeting with 33% professors, 26% industrial researchers and nearly 10% in government positions. The rest of the attendees were graduate students, postdoctoral researchers and independent consultants.

The topics covered by the meeting were addressed by an excellent group of speakers, including

- Prof. D. Wayne Goodman (The Promotional Effect of Gold in Catalysis by Palladium-Gold)
- Prof. Matthew Neurock (Catalysis from First Principles)
- Prof. Bert Weckhuysen (Snapshots of Catalysts at Work: Probing Heterogeneous Catalysts with Spectroscopy and Microscopy)
- Prof. Jochen Lauterbach (High-Throughput Catalysis)
- Prof. Rutger van Santen (Mechanistic Aspects of the Reactivity of Cation Containing Zeolites)

- Prof. Fraser Armstrong (Electrocatalytic Hydrogen Cycling by Enzymes on Electrodes: Implications for Future Energy Technologies)
- John Holladay (Chemical Transformations of Three Carbon Chemical Building Blocks from Renewable Feedstocks)
- Prof. Andreas Bommarius (Biocatalysts Towards Chiral Compounds: Status and Potential)
- Dr. Shimshon Gottesfeld (Electrocatalysis and Other Challenges in the Development of Direct Methanol Fuel Cells (DMFCs) for Portable Power Application)
- Prof. Susannah Scott (Reengineering Heterogeneous Olefin Metathesis Catalysts: The Roles of Bronsted and Lewis Acidity)
- Prof. Peter Stair (Nanostructured Membrane Catalysis)
- Prof. Avelino Corma (New Reactions Catalyzed by Gold. Relating Homogeneous and Heterogeneous Catalysis)
- Prof. Christopher Jones (Isolated Sites vs. Complexes that Cluster - Rationally Immobilizing Metal

Complexes for Catalytic Applications)

- Prof. Alexander Katz (Hybrid Organic-Inorganic Interfaces for Enhancing Heterogeneous Catalysis)
- Dr. Karl Strohmaier (Enhancement of Catalytic Activity in SAPO Materials)
- Prof. Johannes Lercher (Low Temperature Catalytic Alkane Activation and Conversion).

The meeting also featured two evening poster sessions and plenty of time to socialize among the conferees. Although the weather threatened to dampen enthusiasm, the stimulating technical discussions and late night networking sessions ensured the success of the conference.

The next GRC on Catalysis in the summer of 2008 will be chaired by Dr. Stuart Soled, with help from newly-elected vice-chair, Abhaya Datye.



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