

# THE NORTH AMERICAN CATALYSIS SOCIETY



## NEWSLETTER

June 2006

[www.nacatsoc.org](http://www.nacatsoc.org)

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### NACS News

#### Annual Board Meeting at the Atlanta ACS

We had our annual Board meeting during the Atlanta ACS meeting and I wanted to summarize some of the more significant items we discussed.

Edrick Morales is planning **4 Newsletters for 2006**. We have moved to all electronic distribution which saves considerable costs. Members who wish a paper copy can request special mailings from Edrick at [nacatsoc@gmail.com](mailto:nacatsoc@gmail.com).

Charlie Campbell reported on the name change of the California Club to **Pacific Coast Catalysis Club**, which includes members from the States of California, Oregon and Washington. He said the membership list was updated and filing of the incorporation papers was in progress.

Last year, I created a sub-committee to consider new initiatives for excess proceeds from our operations to support the education purposes of our Society. The committee consisted of John Byrne, Jinguang Chen, Enrique Iglesia, Edrick Morales, Chunshan Song and Bruce Gates (Chair). Bruce Gates reported on the Committee's findings and recommendations were approved for the use of new **Educational Funds for the Society**.

A motion was approved to **provide an additional \$15,000** from the proceeds of future North American Catalysis Meetings in excess of

costs and other obligations **for the Kokes** (student) travel grants. This would be in addition to the \$15,000 that NACS already provides for these grants at the present time. A second motion was approved to provide **support for a group of students to attend local club/society meetings**. The amount could be up to \$1000 per club and could only be used for students. A proposal from local club officers would be submitted to the President which outlines the use of the monies; full accounting of the monies has to be provided by the local club to the treasurer within one year. This award would be separate from the Kokes Awards to the NAM meetings. The money could be used by the students for meals, travel, living, and as for poster awards (one such club award to each club is allowed every year).

A third motion was approved for organizing **Burt Davis' video archives** in a way that they are more easily accessible to the membership. Up to \$5,000 will be made available for converting a set of videotapes into a form accessible to members at no cost. We are looking for a member who would be willing to help in the editing process (contact the President at [cbarmor@enter.net](mailto:cbarmor@enter.net)).

Enrique Iglesia brought up a proposal for creating a **Michel Boudart Award** for

Achievements in Catalysis. The international award will recognize accomplishments within the last five years with no limits with regards to age or nationality and with the intent that it will be jointly sponsored by the European Federation of Catalysis Societies and the North American Catalysis Society. He indicated that there was potential seed money to start the award and finance it for the first three awards (6 years). Sponsorship by both Societies seemed appropriate since Professor Boudart had presence on both continents, and this would be a way of paying tribute to this fact. The award decision will be made jointly by the two societies and the awardee will give plenary lectures at both NAM and EuropaCat meetings, which are held in the same year. Our intent is to open nominations this Fall; keep an eye on the NACS web site for further details.

Progress is going well on preparations for the **Houston 20th NAM meeting** in June of 2007. Bruce Gates and Enrique Iglesia reported on efforts for finding a San Francisco hotel for the **21<sup>st</sup> NAM**, which will be organized by the Pacific Coast Club in 2009. Galen Fisher stated that Michigan Club was willing to organize the **22<sup>nd</sup> NAM in 2011** and said that Dearborn could again be the location since the 1987 meeting that was held in that location was quite successful.

*John Armor*

President, North American Catalysis Society

## **2007 Eugene J. Houdry Award to Stacey Zones**

The 2007 Eugene J. Houdry Award in Applied Catalysis to Dr. Zones of Chevron Energy Technology Company, Richmond, CA, USA. The award is sponsored by Süd-Chemie, Inc., and administered by the North American Catalysis Society. The purpose of the Award is to recognize and encourage individual contributions in the field

of catalysis with emphasis on the development of new and improved catalysts and processes representing outstanding advances in their useful application.

Dr. Zones primary focus has been in the area of zeolites and zeolite catalysts. He has invented over 20 new zeolite materials. Perhaps Stacey's most important commercial work has been the development of a proprietary zeolite that he invented and is used in the extremely successful second generation Isodewaxing® catalyst. This contribution has led to the expansion of the feeds useful for the preparation of lubricant oils, via the application of catalytic dewaxing. It was first successfully commercialized in a refinery in 1996. Since then Dr. Zones has played a role in Chevron's Catalyst Group and Technology Marketing organizations in developing other zeolite-based technologies for use in refining, separations, and petrochemical applications. In addition, Dr. Zones has focused on scaling up zeolite synthesis routes, via the development of more cost-effective approaches.

Stacey will give a plenary lecture and be recognized at the 2007 North American Catalysis Society meeting in Houston. More information on this award, the awards process, and previous awardees can be found inside the Awards folder on the NACS home page: [www.nacatsoc.org](http://www.nacatsoc.org).

## **NACS Opportunities**

### **Volunteers Needed**

The Society continues to seek ways to support the educational needs of the catalysis community. The Board has set aside money to edit our video archives and we will need more video services in the future. We are looking for a member to volunteer to help in leading this effort. Please contact the President at [cbarmor@enter.net](mailto:cbarmor@enter.net).

We need someone to volunteer for a long term legal/tax activity: continuing the process John Byrne has started to assist the local clubs in getting Federal tax free status, incorporation, and a tax id. John has a lot of other demanding tasks on his plate (Treasurer and Head Trustee). We need someone willing to handle the interface between local clubs, the NACS, and lawyers with respect to incorporation. The person need not be a member of the Board - just interested in helping out, while being able to attend Board meetings and participate in Society activities. Interested persons should contact John Armor directly ([globalcatalysis@entermail.net](mailto:globalcatalysis@entermail.net)).

### **Investment Advisors Wanted**

The Keith Hall Educational Fund has a large amount of funds which are used for generating proceeds to support the educational activities of the NACS. We have a lead trustee (John Byrne) and a small subcommittee of advisors that input advice into investment activities with these funds. We are looking for NACS members who would like to volunteer their time to participate on this subcommittee. This is a great way to influence and see the impact on sizeable investment strategies. These advisors may also sit in on Board meetings.

Interested persons should contact John Armor directly ([globalcatalysis@entermail.net](mailto:globalcatalysis@entermail.net)).

## **Future NACS Awards**

### **Emmett Award nomination:**

- Open - Aug. 2006 / Close - Nov. 1, 2006

### **Burwell Lectureship Nomination:**

- Open - Jan. 2007 / Close - April 1, 2007

## **20<sup>th</sup> NAM**



### **Incoming Key Date:**

**Call for Abstracts - Aug. 21, 2006**

## **Club/Society News**

### **Canada Catalysis Division**

#### **News**

The 2006 Catalysis Award of the Chemical Institute of Canada has been given to Dr. Steve Brown, Principal Scientist, from NOVA Chemicals Corporation in Calgary, AB. 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 will receive a rhodium-plated silver medal and travel expenses to present the Award Lecture at the 19<sup>th</sup> Canadian Symposium on Catalysis.

Dr. Brown has been a leader in the area of single site catalysis and the development of several of

industrially important NOVA Chemicals catalyst technology platforms for solution, slurry and gas phase polyethylene/polyolefin production. Many of these technological advancements have formed the framework for a BP/NOVA joint R&D program on gas phase ethylene polymerization.

Dr. Brown received his B.Sc. (Hons) from the University of London and his D. Phil from the University of York in 1981 and 1984, respectively. He completed postdoctoral fellowships at ICI, Brock University, Sydney University, and Queen's University, in research areas ranging from hydrogenation catalyst development for heavy oil upgrading to analytical chemistry. After 4 years at Dupont Canada's Kingston Research Centre, Dr. Brown joined NOVA Chemicals in 1994, through the purchase of the SCLAIRTECH™ polyethylene business and technology. Dr. Brown has been granted over 20 patents for his inventions in the field of single site catalysis and polyolefin production, and he has published several open literature papers throughout his career. In 1997 and 1998, Dr. Brown was the recipient of the NOVA Chemicals Extraordinary Achievement and the Distinguished Achievement Awards for catalyst development and catalyst invention, respectively.

#### **Club Officers 2006-2008**

On May 15, during the 19th Canadian Symposium on Catalysis,

a new executive committee was elected for a 2-year term (2006-2008). The new officers are:

*Chair:* **Bryce McGarvey**, Imperial Oil Products Division

*Vice-Chair:* **Flora Ng**, Department of Chemical Engineering

*Secretary/Treasurer:* **Ajay Dalai**, Department of Chemical Engineering

*Past-Chair:* **Jacques Monnier**, CANMET Energy Technology Centre – Ottawa

### **Catalysis Club of Chicago**

#### **2006 Herman Pines Award**

The Catalysis Club of Chicago is pleased to announce that the 2006 Herman Pines Award in Catalysis is presented to Dr. Jeffrey T. Miller from BP Corporation (BP Research Center, Naperville, IL)

The Herman Pines Award is presented annually by the Catalysis Club of Chicago for outstanding research in the field of catalysis. Herman Pines was an outstanding research scientist, and his work revolutionized the general understanding of organic chemistry, particularly the chemistry of hydrocarbons interacting with strong acids. The award in his honor is sponsored by UOP where Herman began his industrial career in 1930 and amassed 145 US patents over a 23-year period. The award is being co-sponsored by the Catalysis Club

of Chicago of which Professor Pines was a founding member.

Dr. Miller is being honoured for his significant accomplishments in the area of heterogeneous catalysis. He has distinguished himself in the areas of synthetic fuels, hydrotreating, catalytic reforming, catalytic cracking, and isomerization. He is known internationally for his extensive use of synchrotron techniques such as EXAFS for in situ catalyst characterization.

Formal presentation of the award took place at the 2006 Spring Symposium of the Catalysis Club of Chicago on Wednesday, May 16, 2006, where Dr. Miller presented the keynote address titled “XAFS spectroscopy in catalysis research: application to Au catalysts.”



John Regalbuto (left) and Jeffrey Miller, the recipient of the 2006 Herman Pines Award.

#### **Student Poster Competition Winners**

Awards for the Catalysis Club of Chicago 2006 Spring Symposium

student poster competition were presented to Catherine Schmidt, a Ph.D candidate in Physical Chemistry at Northwestern University (advisors: Dr. Eric Weitz and Dr. Franz Geiger), for “CIMS studies of acetone adsorption and degradation on TiO<sub>2</sub>” and to Hari Nair, a Ph.D candidate in Chemical Engineering at Purdue University (advisor: Dr. Chelsey Baertsch), for “Elucidation of structure-reactivity relationships in supported mixed metal oxide nanostructures of MoO<sub>3</sub> and WO<sub>3</sub>.”

### CCC 2006-2007 Officers

*President:* **Christopher Marshall**, Argonne National Laboratory

*Vice President - Program Chair:* **Randall Meyer**, University of Illinois at Chicago

*Treasurer:* **Wolfgang Spieker**, UOP LLC

*Secretary:* **A. Jeremy Kropf**, Argonne National Laboratory

*Directors:*

**Jeffrey Miller**, BP Corporation

**John Regalbuto**, University of Illinois at Chicago

**Peter Stair**, Northwestern University

Regular monthly meetings begin again in October.

## Michigan Catalysis Society

### Club Awards

Professor Levi T. Thompson of the University of Michigan received the 2006 Michigan Catalysis Society Parravano Award for Excellence in Catalysis Research and Development. Professor Thompson

was chosen for his outstanding contributions to the development of novel carbide and nitride catalysts, and for his passion in mentoring and educating both undergraduate and graduate engineering students, instilling in them enthusiasm for catalysis research.

The Michigan Catalysis Society has two awards to recognize individuals who have made outstanding contributions to catalysis research and development. Both awards are sponsored by the Memorial Trust Fund for Professor Giuseppe Parravano, and administered by The Michigan Catalysis Society.

1. Giuseppe Parravano Memorial for Excellence in Catalysis Research

The award is given biennially in odd numbered years to an individual from North America to formally recognize outstanding contributions to catalytic science and technology.

2. The Michigan Catalysis Society Parravano Award for Excellence in Catalysis Research and

Development The award is given biennially in even years (including this year) to formally recognize outstanding contributions to catalytic science and technology by researchers in the greater Michigan area.

During the 28th Annual Spring Symposium, Eranda Nikolla and Timothy King, Ph.D. candidates at the University of Michigan received the Outstanding Student

Presentation Award and the Best Student Poster Presentation Award, respectively.

### News

On February 23, 2006, Prof. William Schneider of University of Notre Dame visited us, and discussed the first principles computer modeling of catalysts aimed at understanding the effects of particle size on catalysis and the interaction between small particles and the support. On March 23, Dr. Charles Peden of Pacific Northwest National Laboratory shared with us his latest findings on the structure-activity relationship of highly dispersed oxide catalysts on mesoporous silica. On April 19, Prof. Enrique Iglesia visited us as the 2005 Burwell lecturer, and discussed the fundamental mechanistic and kinetic aspects of various methane reactions catalyzed by supported metal clusters.

We concluded our 2005-2006 season with the 28th Annual Spring Symposium at the Dow Chemical Company in Midland, MI, on May 25. Prof. Levi Thompson gave the Parravano Award lecture on his new endeavor on nanostructured gold catalysts for hydrogen production, and Prof. Abhaya Datye of University of New Mexico gave an invited lecture on the dynamics and mobility of nanoparticles. This year's program featured contributions from various research groups at the University of

Michigan, Michigan State University, University of Waterloo, University of Toledo, Purdue University, the University of Notre Dame, and the University of New Mexico. Companies represented included Dow Chemical, Dow Corning, Ford, General Motors, Delphi, Hiden Analytical, Micrometrics, MKS Instruments, Saint-Gobain Norpro, Shepherd Chemical and Süd-Chemie.

Photos from the 28<sup>th</sup> Annual Spring Symposium:



Prof. Johannes Schwank, Mrs. Ernestia Parravano (Wife of the late Professor Parravano), Prof. Thompson, and Prof. Datye.



Eranda Nikolla, recipient of the Outstanding Student Presentation Award and John Hoard (Vice President).



Timothy King, recipient of the Best Student Poster Presentation Award.

*NOTE: Additional images are available in the web edition of the Newsletter.*

## Pacific Coast Catalysis Society

### First Annual meeting



The Pacific Coast Catalysis Society is announcing their first annual meeting and call for abstracts.

*Date:* Friday, September 8, 2006

*Location:* University of Washington Campus, Seattle

*Invited Speakers:*

**Stu Soled**, ExxonMobil

**Isabel DiCosimo**, Argentina

**Robert J. Madix**, Harvard University

**Enrique Iglesia**, UC Berkeley

**Yong Wang**, Pacific Northwest National Lab

**David Trimm**, CSIRO Petroleum, Australia (tentative)

**Galen Stucky**, UC Santa Barbara (tentative)

*Abstracts due date:* August 1, 2006

*Organizing Committee:*

**Charles Campbell**, Chair (U. Washington)

**Chuck Peden** (PNNL)

**J. M. White** (PNNL and U. of Texas)

**Eric McFarland** (UC Santa Barbara)

Contact Charles Campbell (campbell@chem.washington.edu) for additional information and submitting abstracts.

*Sponsors:* The Institute for Interfacial Catalysis (PNNL) and Surface Science (the Elsevier Journal).

### News

The Pacific Coast Catalysis Society is pleased to announce plans for the 2009 North American Catalysis Society meeting, scheduled for San Francisco, June 6 through June 12, 2009. The meeting co-chairs are Enrique Iglesia, University of California, Berkeley ([iglesia@berkeley.edu](mailto:iglesia@berkeley.edu)), Charles Wilson, ChevronTexaco ([CharlesWilson@chevron.com](mailto:CharlesWilson@chevron.com)), and Bruce Gates, University of California, Davis ([bcgates@ucdavis.edu](mailto:bcgates@ucdavis.edu)).

## Catalysis Club of Philadelphia

### News

The Catalysis Club of Philadelphia held its 2006 Spring Symposium on May 18, 2006 at the

University of Delaware. The one day symposium featured eight speakers from academia and industry presenting lectures in variety areas of catalysis including oxidation, molecular and kinetic modeling and surface studies, with Professor Jack Lunsford of Texas A&M University as the keynote lecturer. At the symposium, Professor James Dumesic of the University of Wisconsin was announced as the winner of the 2006 Catalysis Club of Philadelphia Award. The Spring Symposium marks the end of the Catalysis Club of Philadelphia's 2005-2006 season. The monthly meetings will resume again on September 28, 2006 with Professor Dumesic as the featured speaker.

### CCP 2006 Award

The 2006 Catalysis Club of Philadelphia Award is given to Professor James A. Dumesic of Department of Chemical Engineering, University of Wisconsin, for his pioneering contributions to the kinetics and mechanisms of catalytic reactions. Professor Dumesic is also recognized for the development of concepts and tools for elucidating structure-property relationships for the discovery of new catalysts. Professor Dumesic's recent discoveries include the metal-catalyzed reforming of biomass-derived oxygenates in aqueous media, and the use of oxide clusters as redox agents in fuel cells.

Professor Dumesic has received many previous awards, including the Colburn Award and the Wilhelm Award from the American Institute of Chemical Engineers, the Emmett Award from the North American Catalysis Society, the Somorjai Award of the American Chemical Society, and the election to the National Academy of Engineering.

### CCP 2006-2007 Club Officers

Elections for the 2006-2007 Club officers were held on Thursday, April 20. The new officers are:

*Chair:* **Roger Grey**, Lyondell Chemical

*Chair-Elect:* **Edrick Morales**, Lyondell Chemical

*Pass Chair:* **Istvan Halasz**, The PQ Corporation

*Treasurer:* **Steve Harris**, Lyondell Chemical

*Secretary:* **Hong-Xin Li**, ZEOLYST International

*Program Chair:* **Mahesh Konduru**,

*Arrangements Chair:* **Carl Menning**,

*Director:* **Xiao Chen**, Johnson Matthey Fuel Cells (USA)

*Director:* **Haiming Liu**, Arkema Inc.

*Director:* **Michael Smith**, Villanova University

*National Representative:* **Anne Gaffney**, ABB Lummus Global Inc.

### Organic Reaction Catalysis Society

Three recipients were selected to receive awards for excellence in organic catalysis and a fourth awardee was selected for his

distinguished service to the ORCS organization at the 21st Conference of the Organic Reactions Catalysis Society (<http://www.orcs.org>) sponsored by the Organic Reactions Catalysis Society (ORCS) on the week of April 2, 2006 in Orlando, Florida. The 2005 Paul N. Rylander Award went to Dr. Jean-Marie Basset, Laboratoire de Chimie Organometallique de Surface, CNRS, Lyon, France and the 2006 Paul N. Rylander Award was presented to Professor Gadi Rothenberg, University of Amsterdam, The Netherlands. The 2006 Murray Raney Award, sponsored by the W. R. Grace Co., was presented to Professor Isamu Yamauchi, Osaka University, Japan. The Russ Malz Award was presented to Frank Herkes, formerly Dupont and Invista and presently retired.

The Paul N. Rylander Award is an annual award, sponsored by ORCS, made to an individual who has made significant contributions to the use of catalysis in organic reactions as exemplified by Paul N. Rylander. The Murray Raney Award is made to an individual who has made significant contributions to chemistry and the chemistry industry via catalyst technology based on that originally developed by Murray Raney. The Russ Malz Award, sponsored by ORCS, is a new ORCS special award for distinguished service to the organization.

Bassett's research has been on the forefront of the correlation of reactions which occur at the active sites of heterogenized surface organometallic catalysts and solution phase reactions of organometallic catalysts. This has allowed him to design well defined surface catalysts that catalyze reactions that sometimes won't occur in the homogeneous phase. His presentation was titled "New Catalytic Reactions Discovered via Surface Organometallic Chemistry".

Rothenberg's research has provided novel, ligand-free catalysts for carbon-carbon coupling reactions, as well as unique catalysts for selective oxidative dehydrogenation. Recently he has developed high-throughput data analysis methods and catalyst descriptor models to better find the best homogeneous catalyst for a particular transformation. His presentation was entitled "How to Find the Best Homogeneous Catalyst".

Yamauchi's research investigated improved methods for preparing precursors to skeletal catalysts, novel bimetallic compositions, and application of improved copper catalysts to the hydration of acrylonitrile and hydrogenation of carbon dioxide. His talk was entitled "Synthesis and Features of New Raney Catalysts from Metastable Precursors".

Herkes's service and leadership to the organization has been exemplified by his chair position of the 1998 New Orleans meeting, the various other ORCS offices he has held through the years, and the various presentations he has given at ORCS conferences.

The proceedings of the meeting including the award addresses will appear in a future volume of the Chemical Industries series.



From left to right:  
Tamauchi, Bassett,  
Rothenberg and Herkes.

### **Pittsburgh-Cleveland Catalysis Society**

#### **News**

The annual spring symposium of the Pittsburgh-Cleveland Catalysis Society (PCCS) was held on June 9 in Pittsburgh. The meeting featured invited presentations by Penn State's Paul Weiss and Carnegie Mellon's John Kitchin. Ten students also presented papers; three of those ten were selected for awards. Huifang Shao of West Virginia University won the award for best student paper for "Preparation, Characterization, and Catalytic Study of Ni-W Carbide for Methane

Dry Reforming." An honorable mention was awarded to Carnegie Mellon's Layton Baker for "Investigation of the Atomic and Electronic Structure of Naturally Chiral Surfaces." Also awarded an honorable mention was Tengfei Liu of the University of Pittsburgh for "Nanocomposite Oxygen Carriers for Chemical Looping Combustion."



## PCCS 2006-2207 Officers

*President-Elect:* **John Kitchin**, Carnegie Mellon

*Secretary:* **Jim Miller**, Carnegie Mellon

*Treasurer:* **Marge Nasta**, Carnegie Mellon

*Director:* **Dady Dadyburjor**, West Virginia University

Ed Kugler of West Virginia University, President-Elect in 2005-2006, automatically becomes President for 2006-2007, succeeding the University of Pittsburgh's Götz Vesper, who served the society capably and enthusiastically during his tenure!

Photos from PCCS spring symposium:



PCCS Presidents—past and present, L to R: Dady Dadyburjor, Ed Kugler, Jim Miller, Götz Vesper, Faiz Pourarian, John Kitchin.



PCCS Student Prize Winners, L to R: Layton

Baker, Tengfei Liu, Huifang Shao.

## Southwest Catalysis Society

### News

This year's Southwest Catalysis Society (SWCS) Symposium was held on March 17, 2006 at Rice University. We had more than 80 participants this year, making this one of the largest gatherings in recent years! There were 19 oral and poster presentations throughout the day, representing over 20 companies and 9 universities. Enrique Iglesia started the day with his Burwell Lecture, with other lectures given by Jon McCarty (Catalytica Energy Systems), Peter Strasser (University of Houston), George Fitzgerald (Accelrys), Bert Chandler (Trinity College), Edouard Mamedov (SABIC), Chunshan Song (Penn State), Roland Saeger (ExxonMobil), and Victor Lin (Iowa State).

Three posters were chosen to receive Best Poster Awards (\$300 monetary award each): Alan G. Bussard, LSU (advisor: Kerry Dooley), Dheeraj Kumar and Mingshu Chen TAMU (advisor: Wayne Goodman), and Vinay Medhekar, UH (advisor: Mike Harold). We thank Mike Reynolds (Shell) for chairing the poster awards committee and the anonymous judges involved.

We thank our sponsors for generously supporting this meeting

(listed alphabetically): Accelrys, ChevronPhillips Chemical Company, Custom Catalytic Solutions, Crystaphase Inc., Engelhard, ExxonMobil Chemicals, Hiden Analytical, Intertek, Micromeritics, Sabic, and SASOL North America.

Programming note: we will not be hosting a spring symposium in 2007, as the SWCS officers will be helping to organize the North American Meeting set for June 17-22, 2007 at the Hilton Americas. Any questions about SWCS or the 20th NAM can be directed towards Yun-feng Chang (yun-feng.chang@exxonmobil.com) or Kerry Dooley (dooley@lsu.edu), respectively.

Photos from SWCS spring symposium:



Is the coffee break over already?



Poster award winners (left to right) - Vinay

Medhekar, Alan Bussard, and Dheeraj Kumar (not shown: Mingshu Chen) - with poster selection committee chair Mike Reynolds.

### Western States Catalysis Club

#### News

The Western States Catalysis Club held its annual symposium on February 24 in Boulder, Colorado.

Stu Soled, the 2006 Ciapetta Lecturer, was the keynote speaker.

The program included 18 other presentations, including 13 by students. The winners of the 2006 Shane L. Anderson/Jay C. Dorius Outstanding Student Presentation Awards were:

1st Place: **Matt Hyman**, University of Colorado.

2nd Place: **Camille La Fontaine**, Université de Poitiers.

3rd Place: **David Slade**, University of Kansas.

Next year's symposium will be held in Provo, Utah.

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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: Prof. Enrique Iglesia, University Of California At Berkeley; 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; Directors-at-Large: Dr. Bruce Gates, UC, Davis; Prof. Jinguang Chen, University of Delaware; Dr. Christopher L. Marshall, Argonne National Laboratory; Dr. Stuart Soled, Exxon Mobil. Club Representatives: California-Dr. E. Iglesia; Canada-Dr. J. Monnier; Chicago-Dr. C. Marshall; Mexico-Dr. M. Viniestra; Michigan-Dr. G. Fisher; New England-Dr. W.C. Conner; New York-Dr. J. Byrne; Philadelphia-Dr. A. Gaffney; Pittsburgh/Cleveland-Dr. D. Dadyburjor; Organic Reactions-Dr. S. E. Jacobson; Southeast-Prof. J. Goodwin; Southwest-Dr. B. D. Murray; Tri-State-Dr. P. Doolin; Western States-Dr. J. Miller. Contributions for the Newsletter should be directed to the Editor and Communications Director, Dr. Edrick Morales, Lyondell Chemical Co., 3801 West Chester Pike, Newtown Square, PA 19073, Ph: (610) 359-2929, E-mail: nacatsoc@gmail.com. Society Web Address [www.nacatsoc.org](http://www.nacatsoc.org).