

NACS Newsletter

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NAM25

DENVER, CO

NORTH AMERICAN
CATALYSIS SOCIETY MEETING
JUNE 4-9, 2017
MILE HIGH
CATALYSIS

Ahmad Moini of BASF is the recipient of the 2016 F.G. Ciapetta Lectureship in Catalysis

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Directors-at-Large: Jingguang G. Chen, Columbia University; Robert J. Davis, University of Virginia; Maria Flytzani-Stephanopoulos, Tufts University; Bruce Gates, University of California at Davis; Fabio H. Ribeiro, Purdue University; Stuart L. Soled, ExxonMobil.

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I am pleased to announce that Dr. Ahmad Moini of BASF is the recipient of the 2016 F.G. Ciapetta Lectureship in Catalysis, sponsored by W.R. Grace & Co. and the North American Catalysis Society. The Award consists of a plaque and an

honorarium. The plaque will be presented during the closing banquet ceremonies at the 2017 NAM in Denver, CO. The recipient will present lectures at most of the affiliated Clubs/Societies during the two-year period covered by this Lectureship.

The Award is given in recognition of substantial contributions to one or more areas in the field of catalysis with emphasis on industrially significant catalysts and catalytic processes and the discovery of new catalytic reactions and systems of potential industrial importance.

Ahmad Moini is a well-recognized expert in the area of zeolites and catalysis. During his career at Mobil, followed by subsequent positions at Engelhard and BASF, his research studies were directed at various aspects of heterogeneous catalysis for chemical transformations and environmental applications, with a particular focus on zeolite synthesis. He has been a co-inventor on more than 45 U.S. patents.

Specifically, Ahmad is being recognized for his significant contributions toward the development of the Cu chabazite (Cu-CHA) catalyst for selective catalytic reduction (SCR) of NO_x emission from diesel vehicles. Ahmad and his team were able to identify unique properties of Cu-CHA, making it a prospective material solution for NO_x control by SCR. This research, in collaboration with the extended BASF team, led to the development of the Cu-CHA catalyst, widely accepted as a breakthrough technology. Today, it is found on millions of diesel vehicles meeting

stringent emission standards worldwide. Since its discovery, Ahmad has been instrumental in various aspects of product development, as well as fundamental attributes of the associated zeolite chemistry. The impact of this work is also evident by the exponential increase in the amount of research activities focused on CHA chemistry and catalysis.

I am delighted that the North American Catalysis Society has chosen to recognize the contributions of Dr. Ahmad Moini with this lectureship. I speak with the voice of our grateful community in also thanking the management of W.R. Grace & Co. for its continuing support of this lectureship.

Bruce Cook
Vice President, North American
Catalysis Society

Nominations are open for the Eugene J. Houdry Award in Applied Catalysis

Deadline for nominations is 5 August 2016

The Eugene J. Houdry Award in Applied Catalysis is sponsored by Clariant. 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 award consists of a plaque and a prize of \$5,000. An additional \$1,000 is available for otherwise unreimbursed travel expenses.

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.

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 age, sex, nationality or affiliation. Posthumous awards will be made only when knowledge of the awardee's death is received after announcement of the Award Committee's decision.

Nominations for the Award should be made before 5 August 2016. The nomination materials should describe clearly, specifically, and concisely the nominee's qualifications and accomplishments in the context of the specific award.

These materials should include the following documents (submitted as a single PDF file and not exceeding the indicated length): (i) a nomination letter (1000 words); (ii) two supporting letters (800 words each); (iii) a narrative biographical note (500 words); and (iv) a curriculum vitae, including relevant positions and recognitions and a list of publications and patents.

The nomination and supporting letters should be specific to the year and to the name of the award.

Nomination documents should be submitted electronically to the President of the Society in one complete package along with no more than two seconding letters. Nomination packages for the Award must be received by **5 August 2016**.

All nomination packages (one ELECTRONIC COPY) for the Houdry Award should be sent to Enrique Iglesia, President, North American Catalysis Society at iglesia@berkeley.edu. Receipt of any nomination, will be confirmed by an email message sent to any nominator.

Previous Award Winners

1971 Herman S. Bloch
1973 Charles J. Plank
1975 Heinz Heinemann
1977 Vladimir Haensel
1979 Adalbert Farkas
1981 Herman Pines
1983 Milton Orchin
1985 John W. Ward
1987 Ralph J. Bertolacini
1989 Jule A. Rabo
1991 James Roth
1993 Wolfgang M. H. Sachtler
1995 Madan Bhasin
1997 John Armor
1999 Clarence Chang
2001 Leo Manzer
2003 Avelino Corma
2005 Henrik Topsøe
2007 Stacey Zones
2009 Jeffrey Beck
2011 James C. Stevens
2013 Giuseppe Bellussi
2015 Anne Gaffney

The 16th International Congress on Catalysis

July 3-8, 2016 • Beijing, China



The Organizing Committee cordially invites you to attend the 16th International Congress on Catalysis (ICC 16) that will be held on July 3-8, 2016 in Beijing, China. The ICC 16, with the theme of **Catalysis for the Sustainable Development of the World**, will feature the crucial roles of catalysis science and technology in improving the efficiencies of energy production and utilization of fossil resources, developing renewable energy, and abating/eliminating pollutants emission to the environment. The congress will serve as a platform to exchange new ideas and discuss the advances in all areas of catalysis.

Topics

1. Catalytic Mechanisms

- 1-1. Spectroscopic and Visualizing Characterizations
- 1-2. Surface Chemistry, Reaction Kinetics and Mechanisms
- 1-3. Molecular Simulation and Theoretical Modeling
- 1-4. New Concepts for Catalysis

2. Catalytic Materials

- 2-1. Nanostructured Catalytic Materials
- 2-2. Micro- and Meso-Porous Catalytic Materials
- 2-3. Novel Design and Synthetic Approaches

3. Catalysis for Energy

- 3-1. Efficient Utilization of Fossil Sources
- 3-2. Clean Energy Conversion: Electrocatalysis
- 3-3. Biomass Conversion
- 3-4. Photocatalysis for Hydrogen Production

4. Environmental Catalysis

- 4-1. Automotive Exhaust Cleanup
- 4-2. Water Pollution Control
- 4-3. Air Pollution Control
- 4-4. Updating and Utilization of Wastes

5. Catalysis for Chemical Synthesis

- 5-1. Green Synthesis
- 5-2. Petrochemicals
- 5-3. Fine Chemicals and Pharmaceuticals
- 5-4. Selective Oxidation & Hydrogenation

6. Cross-Disciplinary

- 6-1. Integration of Heterogeneous and Homogeneous
- 6-2. Organic Catalysis
- 6-3. Biomimetic Catalysis
- 6-4. Industrial Catalysis

Key Dates

November 30, 2015

Deadline for abstracts submission

March 31, 2016

Notification of acceptance for presentations

April 30, 2016

Deadline for early registration

May 31, 2016

Distribution of the final program

July 3-8, 2016

Congress

Congress Website

www.icc2016china.com

Plenary Speakers

Bruce C. Gates

University of California, Davis, USA

Charles T. Campbell

University of Washington, USA

Krijn P. de Jong

Utrecht University, The Netherlands

Matthias Beller

Leibniz Institute for Catalysis at the
University of Rostock, Germany

Thomas F. Degnan, Jr

ExxonMobil Chemical Company /
University of Notre Dame, USA

IACS Awards Lectures

Two Lectures of **International Catalysis
Award** and **Heinz Heinemann Award**
will be delivered on July 3, 2016.

Keynote Speakers

Akihiko Kudo

Tokyo University of Science, Japan

Boqing Xu

Tsinghua University, China

Dmitry Yu. Murzin

Abo Akademi University, Finland

Fabrizio Cavani

The University of Bologna, Italy

Hélène OLIVIER-BOURBIGOU

IFP Energies nouvelles, France

Johannes A. Lercher

Technische Universität München, Germany

Juan Ramón González-Velasco

University of the Basque Country, Spain

Kuiling Ding

Shanghai Institute of Organic Chemistry, CAS, China

Maria Flytzani-Stephanopoulos

Tufts University, USA

Michikazu Hara

Tokyo Institute of Technology, Japan

S. Ted Oyama

The University of Tokyo, Japan / Virginia Tech, USA

Tao Zhang

Dalian Institute of Chemical Physics, CAS, China

Thomas Maschmeyer

The University of Sydney, Australia

Tobin Jay Marks

Northwestern University, USA

Valentine P. Ananikov

N.D. Zelinsky Institute of Organic Chemistry, Russia

Wha-Seung Ahn

Inha University, Korea

Ye Wang

Xiamen University, China

Zhongmin Liu

Dalian Institute of Chemical Physics, CAS, China

Invited Speakers

About 70 invited lectures will be presented.

Satellite Symposia

Pre-symposia

Fundamentals and Applications of Cerium Dioxide in Catalysis
Beijing, June 30-July 2, 2016 (Organizer: Prof. Chunhua Yan)

**Relations between Homogeneous Catalysis and
Organometallic Chemistry**

Lanzhou, June 30-July 2, 2016 (Organizer: Prof. Kuiling Ding)

Catalytic Conversions of Biomass

Taipei, June 28-30, 2016 (Organizer: Prof. Shang-Bin Liu)

Novel Catalysts for Energy and Environmental Issues

Sapporo, June 30-July 1, 2016 (Organizer: Prof. Atsushi Fukuoka)

Catalytic Conversion of Energy and Resources

Seoul, June 30-July 2, 2016 (Organizer: Prof. Seong Ihl Woo)

Post-symposia

Catalysis for Syngas and Methanol Conversion

Beijing, July 9-11, 2016 (Organizer: Prof. Jianguo Wang)

Nano and Interfacial Catalysis

Dalian, July 9-11, 2016 (Organizer: Prof. Xinhe Bao)

Environmental Catalysis

Wuhan, July 9-11, 2016 (Organizer: Prof. Jinlin Li)

**Catalytic Activation and Selective Conversion of
Energy-Related Molecules**

Xiamen, July 10-12, 2016 (Organizer: Prof. Ye Wang)

Correspondence

Ms. Kun Fang

ICC 16 Secretariat

Dalian Institute of Chemical Physics

Chinese Academy of Sciences

457 Zhongshan Road, Dalian 116023, China

E-mail: icc16@dicp.ac.cn

Catalysis researchers elected to the National Academy of Engineering



Teh C. Ho (Exxon-Mobil, ret.) for contributions to catalytic removal of sulfur and nitrogen compounds from hydrocarbon fuels.



José G. Santiesteban (ExxonMobil) for development and commercialization of catalytic systems for petrochemical manufacture and cleaner fuels production.

Link to press release:

<http://www.nae.edu/Projects/MediaRoom/20095/149240/149788.aspx>

Canadian Catalysis Division

The Canadian Symposium on Catalysis was held in Ottawa May 8-11, 2016 (<http://www.cansympcatal.ca/>). The theme of the conference was *The Best is Yet to Come*. We were pleased to have Johannes Lercher, recipient of the 2015 RB Anderson Award, and Matthew Neurock, recipient of the 2015 Robert Burwell Lectureship, presenting lectures at the Symposium.

Robert Hayes of the University of Alberta has received the 2016 Canadian Catalysis Lectureship Award. Bob works in the area of catalytic combustion in structured reactors, both for the mitigation of fugitive methane emissions and in the development of catalytic converters. He will give lectures at several universities in Canada.

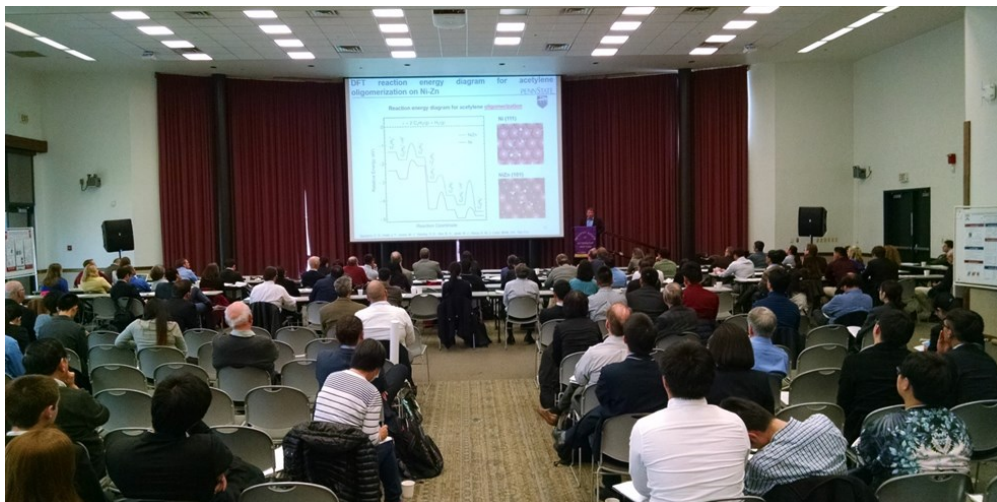
Catalysis Club of Philadelphia

The elections for the 2016-2017 season of the Catalysis Club of Philadelphia (CCP) were held on April 21, 2016.

The newly elected officers to the CCP Executive Committee are:

- Chair Elect - **Joshua Pacheco**, Zeolyst International
- Treasurer - **Lifeng Wang**, Zeolyst International
- Director - **Thomas Yeh**, Johnson Matthey
- Director - **Jacob Dickinson**, DuPont
- Director - **Eric Sacia**, DuPont

Catalysis Society of Metropolitan New York



Professor Robert Rioux addresses the audience during his presentation titled "Understanding Site Isolation of Pd and Ni in Zn-Based Bulk Intermetallics During the Selective Hydrogenation of Alkynes" at the Annual Symposium, March 23, 2016.

The Catalysis Society of Metropolitan New York held its Annual Symposium at Rutgers University in New Brunswick, New Jersey on March 23, 2016. The Symposium featured nine invited oral presentations. The symposium was attended by more than 150 participants.

The speakers at the morning session of the symposium included Dr. **Kunhao (Eric) Li** (Rive Technology, Inc.), Professor **Friederike Jentoft** (University of Massachusetts, Amherst), Dr. **Shane Krska** (Merck & Co., Inc.), and Professor **Robert M. Rioux** (Pennsylvania State University).

As in past years, the afternoon session of the Symposium was devoted to

the Young Faculty Forum, featuring presentations by five Assistant Professors from the northeastern United States: Professor **Wei Fan** (University of Massachusetts, Amherst), Professor **Jonas Baltrusaitis** (Lehigh University), Professor **Maureen Tang** (Drexel University), Professor **George Tsilomelekis** (Rutgers, The State University of New Jersey), and Professor **Ana C. Alba-Rubio** (University of Toledo).

Graduate students and postdoctoral researchers participated in a poster competition with 46 poster presentations. Nine posters and two Special Awards were selected to receive a cash award and a certificate.

The winners were:

First place

- **Tyler Josephson**, University of Delaware, Advisor Dion Vlachos

Second place tie

- **Nusnin Akter**, Stony Brook University, Advisor Taejin Kim
- **Shinjae Hwang**, Rutgers University, Advisor G. Charles Dismukes
- **Jing Luo**, University of Pennsylvania, Advisor Raymond Gorte

Third place

- **Stephen Crowley**, City College of New York, Advisor Marco Castaldi

Fourth place tie

- **Zhu Chen**, Princeton University, Advisor Bruce Koel
- **Graeme Gardner**, Rutgers University, Advisor G. Charles Dismukes
- **Ashley Pennington**, Rutgers University, Advisor Fuat E. Celik
- **Jing Yang**, University of Pennsylvania, Advisor Andrew Rappe

Special Award

- **Suzanna Ogozaly**, Cedar Crest College, Advisor Lindsay Welch
- **Joshua Patelumas**, Rutgers University, Advisor G. Charles Dismukes

2016 Excellence in Catalysis Award

Peng Chen, Peter J. W. Debye Professor Chemistry at Cornell University, was selected as the recipient of the **2016**

Excellence in Catalysis Award. The award consists of an award plaque and an honorarium sponsored by ExxonMobil. The Award recognizes Prof. Chen's contributions in the area of single-molecule nanocatalysis. The Excellence in Catalysis Award dinner will take place on May 18, 2016 at the Clarion Hotel, Somerset NJ, where Prof. Chen will receive his award and present an award lecture titled "*Single-molecule nanocatalysis: from fundamentals to solar energy conversion*."

The election for officers for the 2016-2017 season took place at the May 18th meeting. The new officers are:

- Chair Fuat Celik
- Chair-Elect Ke Xiong
- Past-Chair Zhong He
- Secretary Georgios Tsilomelekis
- Treasurer John Brody
- Director Marco Castaldi
- Director Lucas Dorazio
- Director John Byrne
- Director-Membership Lindsey Welch
- NACS Representative Israel Wachs
- Webmaster Roel Sanchez
- Student Representative Benjamin Moskowitz.

Michigan Catalysis Society

The Michigan Catalysis Society had its 37th Annual Spring Symposium in Midland, Michigan, on May 4th, 2016. During the business meeting at the symposium the

following MCS members were elected as the Serving Officers for the 2016-2017 season:



- President - **Hongfei Jia**, Toyota Research Institute of North America
- Vice President - **Vladimir V. Pushkarev**, Dow Corning Corporation
- Secretary-Treasurer - **Andrew Getsoian**, Ford Motor Company
- Director - **E.M. (Ted) Calverley**, The Dow Chemical Company
- Director - **Galen Fisher**, University of Michigan
- Director - **Suljo Linic**, University of Michigan
- Representative to NACS - **Eric Stangland**, The Dow Chemical Company

2016 Michigan Catalysis Society Parravano Award for Excellence in Catalysis Research and Development

Prof. Linic obtained his PhD degree, specializing in surface and colloidal chemistry and heterogeneous catalysis, at the University of Delaware in 2003 under the supervision of Prof. Mark Barteau after receiving his BS degree in Physics with minors in Mathematics and Chemistry from West Chester University in West Chester (PA). He was a Max Planck post-doctoral fellow with Prof. Dr. Matthias Scheffler at the Fritz Haber Institute of Max Planck Society in Berlin (Germany), working on first principles studies of surface chemistry. He started his independent faculty career in 2004 at the Department of Chemical Engineering at the University of Michigan in Ann Arbor where he is currently the Class of 1938E Faculty Scholar Professor of chemical engineering.

Prof. Linic's research has been recognized through multiple awards including the 2014 ACS (American Chemical Society) Catalysis Lecture-

ship for the Advancement of Catalytic Science, awarded annually by the ACS Catalysis journal and Catalysis Science and Technology Division of ACS, the 2011 Nanoscale Science and Engineering Forum Young Investigator Award, awarded by American Institute of Chemical Engineers, the 2009 ACS Unilever Award awarded by the Colloids and Surface Science Division of ACS, the 2009 Camille Dreyfus Teacher-Scholar Award awarded by the Dreyfus Foundation, the 2008 DuPont Young Professor Award, and a 2006 NSF Career Award. Prof. Linic has presented more than 100 invited and keynote lectures and published more than 50 peer reviewed articles in leading journals in the fields of general science, Physics, Chemistry, and Chemical Engineering. He serves as the associate editor of ACS catalysis journal.

Giuseppe Parravano Memorial Awards

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, which has been established at the Department of Chemical Engineering, The University of Michigan. The Michigan Catalysis Society administers both awards which are presented in alternating years. Both awards consist of a medal and a prize of \$1000. The two awards differ only in the eligibility rules. The recipient of the award is selected by a committee that is appointed by the officers of the Michigan Catalysis Society and includes one representative of the Parravano family.

1. *The Michigan Catalysis Society Giuseppe Parravano Memorial Award 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 Paravano Memorial Award for Excellence in Catalysis Research and Development

The award is given biennially in even numbered years 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/northern Ohio and be nominated by a member of the Michigan Catalysis Society.

Pacific Coast Catalysis Society

The 2016 Annual Meeting of the Pacific Coast Catalysis Society will be held at the University of California, Riverside, on Monday, September 12, 2016. This annual, regional, one-day meeting will cover a variety of topics in catalysis. The meeting will include invited lectures, contributed lectures and a poster session.

Confirmed invited speakers include: Prof. Matthew Neurock (U. Minnesota; Burwell Lectureship), Dr. Christopher

Lew (Chevron), Prof. Xiaoqing Pan (UC Irvine), Prof. Johannes Lercher (PNNL/TU München), and Dr. Ahmad Moini (BASF, Ciapetta Lectureship).

For further information regarding the 2016 PCCS Annual Meeting, e.g., abstract submission, registration, location and schedule, please visit: http://catalysis.ucr.edu/news_and_events/pccs_meeting.html. Please note that the deadline for abstract submission is June 10, 2016.

Please contact the co-organizers, Phil Christopher (Christopher@engr.ucr.edu), Francisco Zaera (zaera@ucr.edu), De-en Jiang (de-en.jiang@ucr.edu), for any assistance.

Rocky Mountain Catalysis Society

Annual Symposium

The Rocky Mountain Catalysis Society held its second annual symposium on March 18th in Provo, UT at Brigham Young University. Approximately 35 engineers and scientists were in attendance to present their research and to hear the keynote speaker, Professor Matthew Neurock,

the current Burwell Lecturer. Dr. Neurock gave an excellent presentation on "Engineering Molecular Transformations over Supported Metal Catalysts for the Sustainable Conversion of Biomass-Derived Intermediates to Chemicals and Fuels."

Other speakers represented Brigham Young University; Colorado School of Mines; the National Renewable Energy Laboratory; the University of Colorado, Boulder; the University of Idaho, the University of New Mexico; and the University of Wyoming.

Four graduate students were recognized with awards for their presentations. Our judges, who included Lucia Petkovic and Dan Ginosar from the Idaho National Laboratory, had a difficult assignment, but chose the following students to receive awards:

- 1st **Lucas Ellis**, University of Colorado, Boulder, "*Trimethylsilyl Functionalized Gamma Alumina Demonstrates Increased 1,2-Propanediol Dehydration Activity*"
- 2nd **Sarah Shulda**, Colorado School of Mines, "*Multi-Technique Characterization of Oxygen Reduction PtNi Extended Surface Catalysts*"
- 3rd **Pengxiao Hao**, University of Colorado, Boulder, "*Increased Selec-*

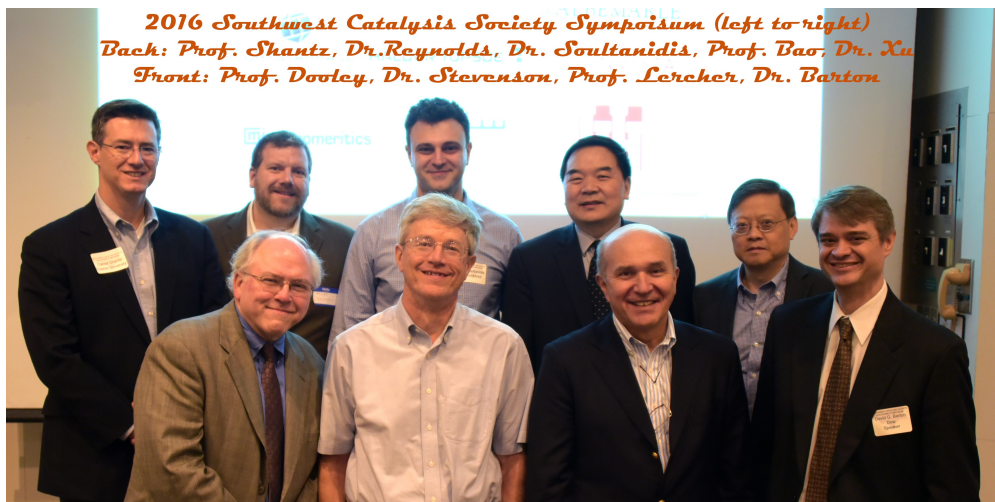
tive Oxidation Activity of Palladium Catalysts Modified by Thiolate Self-assembled Monolayers"

- 3rd **Martin Menart**, Colorado School of Mines, "*Tunable Heterogeneous Nickel Catalysts for Ethylene and Propylene Co-Oligomerization*"

A grant of \$1500 from the NACS paid the registration fees for 15 graduate and undergraduate students who presented their research or were first time attendees at the meeting.

Next year, the Society is preparing to host the 25th North American Meeting (NAM), which is scheduled for June 4-9, 2017 in Denver, CO at the Hyatt Regency Hotel.

Southwest Catalysis Society



Speakers & organizers (left to right): Dooley, Stevenson, Lercher, Barton (front row); Shantz, Reynolds, Soultanidis, Bao and Xu (rear). Not pictured are Roman, Rimer, Grabow, Luo, Conant & Quon.

Symposium Summary

2016 Southwest Catalysis Society Symposium (SWCS) was held on Friday, April 22, 2016 at University of Houston. The symposium featured six invited speakers, Prof. Johannes Lercher from TU Munich, Dr. David Barton from Dow, Prof. Xinhe Bao from Dalian Institute of Chemical Physics, Dr. Scott Stevenson from SABIC, Prof. Kerry Dooley from LSU, and Prof. Yuriy Roman from MIT. More than 170 researchers, with rough-

ly 60% from industry and 40% from Academy, attended the symposium.

Prof. Kerry Dooley from Louisiana State University won this year's SWCS Excellence on Applied Catalysis award. Dr. Teng Xu of ExxonMobil Chemical, 2016 SWCS chair, presented Prof. Dooley with an award plaque and a \$1500 check at the symposium.

The poster session consisted of ca. 30 posters covering a wide variety of topics presented by researchers from University of Houston, Rice University, Louisiana State University,



2016 Best Poster Award winners (left to right): Do, Lee, Welman, Shen & Li. Luo (poster chair) and Xu (Chair).

University of Oklahoma, and UT-Dallas. Five students from UH, Rice and LSU, won SWCS best poster award.

SWCS Award for Excellence in Applied Catalysis

It is with great pleasure to announce that Dr. Kerry Dooley, the BASF Professor of Chemical Engineering at LSU, has been selected as the recipient of the 2016 SWCS Award for Excellence in Applied Catalysis.

"As an educator, instructor, research and thesis mentor / administra-

tor, Kerry has been a part of the development and progression of the LSU department of Chemical Engineering since 1983. Kerry is well known in the field of synthesis & characterization of selective zeolite/metal dehydrogenation catalysts & catalytic applications of these materials, including carbonylations, alkane & amine dehydrogenations & homologations. He has over 100 publications, patents and presentations. Kerry has an interesting body of work in catalytic oxidation, that includes direct oxidation of methane to

Southwest Catalysis Society

methanol, and most notably his research on combined supercritical fluid extraction (SCFE) of priority pollutants from contaminated soils, with catalytic oxidation of the extract. He has related contributions in the field of high-pressure processing & extraction. Kerry's service to the SWCS and the catalysis community has been exceptional; he has held every office in the SWCS and was also President of the 2007 NAM".

Kerry will receive the award, which includes a plaque and a \$1500 check, at the upcoming SWCS symposium on Friday, April 22. Please join me in congratulating Prof. Kerry Dooley for this award!

Teng Xu



Prof. Dooley from LSU received 2016 SWCS Excellence in Applied Catalysis Award from SWCS chair, Dr. Teng Xu of ExxonMobil Chemical.



More than 170 researchers attended this year's symposium with roughly 60% from industries and 40% academy.

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Treasurer
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