

NACS Newsletter

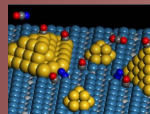
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[Ciapetta Award](#)
[Deadline: 11 December 2015](#)



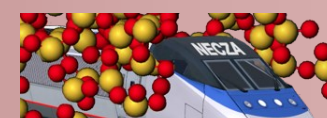
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NAM25

DENVER, CO

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

Nominations are open for the F. G. Ciapetta Lectureship in Catalysis

Deadline for nominations is 11 December 2015

National Officers: President - Enrique Iglesia, University of California-Berkeley; Vice-President - Bruce R. Cook, BP Products NA, Inc.; Secretary - Hong-Xin Li, Zeolyst International; Treasurer - C. Y. Chen, Chevron Energy Technology Co.; Lead Trustee - Thomas F. Degnan, University of Notre Dame; Communications Director - Edrick Morales, Sasol Chemicals (USA) LLC; Archivist - Uschi Graham, Topasol LLC.

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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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The F. G. Ciapetta Lectureship in Catalysis (prior to 1973 The National Lectureship) is sponsored by the Grace Catalysts Technologies operating segment of W.R. Grace & Co. and The North American Catalysis Society. The Society administers this Lectureship. It is to be awarded biennially in even numbered years. The Award consists of a plaque and an honorarium of \$5,000. Travel expenses are provided through a travel escrow fund, administered by the NACS, to be used on a "as needed basis" for the recipients from academia or industrial companies (with < \$100 Million annual sales; up to \$3,000. for employees of larger companies).

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. The awardee will be selected on the basis of his/her contributions to the catalytic literature and the current timeliness of these research contributions. The recipient may be invited to visit and lecture to each of the affiliated Clubs/Societies with which mutually satisfactory arrangements can be made.

Selection of the awardee will be made without regard to age, sex, nationality, or affiliation. 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.

Nominations for the Ciapetta Award will close on 11 December 2015. All nomination packages for the Ciapetta 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 Ciapetta Award Winners

1967 Jan H. deBoer
1968 John Sinfelt
1969 Stanislas Teichner
1972 George C.A. Schuit
1973 Jose J. Fripiat
1974 Dennis A. Dowden
1975 Pierre C. Gravelle
1976 Gerhard Ertl
1977 John R. Anderson
1986 Michel Boudart
1988 James D. Idol
1990 W. Keith Hall
1992 R. van Santen
1994 John J. Rooney
1996 George Kokotailo
1998 Avelino Corma
2000 Gary McVicker
2002 John Monnier
2004 Douglas Stephan
2006 Stuart Soled
2008 Robert Farrauto
2010 Jeffrey T. Miller
2012 Thomas Degnan
2014 Paul Barger



The next meeting of the North American Catalysis Society will be hosted by the Rocky Mountain Catalysis Society on June 4-9, 2017 in Denver, Colorado. Nicknamed the "Mile High City," Denver is conveniently located in the middle of the continental United States with several world-class teaching and research universities in close proximity and convenient flight connections to US destinations as well as all over the world. The meeting will be held at the Hyatt Regency Hotel and Convention Center in Denver, CO. The opening reception will be held at the Pinnacle club, only 2 blocks from the meeting hotel. The view from this site encompasses miles of snowcapped peaks and prairie, taking in 200 named mountains, including Pikes Peak.

The NAM meeting is widely recognized as the premier topical conference for all aspects of heterogeneous catalysis, while also including broad coverage of homogeneous catalysis, electro-catalysis and photo-catalysis. The focus of the NAM 25 meeting will include fundamentals of catalysis as well as new industrial applications and processes. Student scholarships will be provided through the Kokes award program. The meeting will include plenary talks, contributed and keynote oral presentations and poster sessions and exhibits. If you need further information, please email info@nam25.org or visit our website www.nam25.org. The organizers of the NAM 25 are hard at work prepar-

ing for the next meeting. The preliminary list of organizers is listed below:

Co-Chairs

Ryan Richards (CSM)
Abhaya Datye (UNM)

Honorary Chair

Cal Bartholomew (BYU)

Secretary

Joe Holles (Wyoming)

Treasurer

Morris Argyle (BYU)

Technical Program

Will Medlin (CU)
Josh Schaidle (NREL)

Fund-raising

Anne Gaffney (INL)
Bob Baldwin (NREL)
Rich Bolin (NREL)

Publicity/Website

Brian Trewyn (CSM)

Local Arrangements

Matt Yung (NREL)
Michael Griffin (NREL)

Kokes Awards

John Falconer (CU)

Poster Program

Gregg Beckham (NREL)

Important Dates**August, 2016**

Abstract submission opens

November, 2016

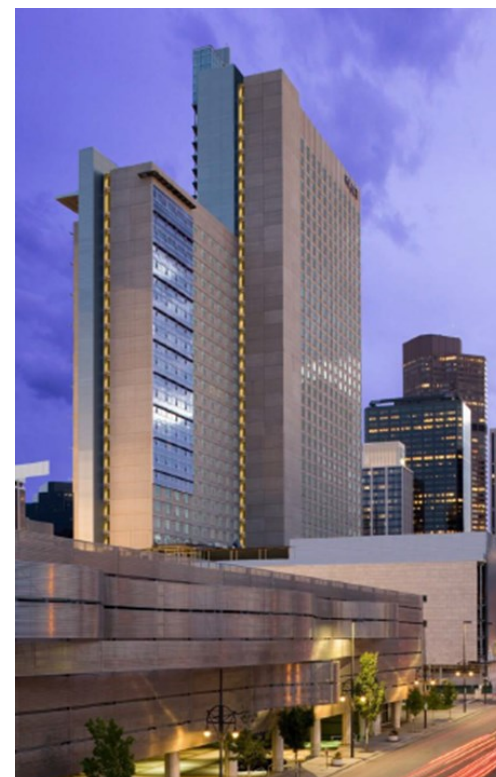
Abstract submission deadline

February, 2017

Notices of abstract acceptance

April, 2017

Deadline for early registration



Hyatt Regency hotel at the Denver Convention center, site of NAM 25.

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

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New Website with Historical Catalysis Talks and Interviews

www.video-history-catalysis.org

The North American Catalysis Society has supported the creation of a web site devoted to disseminating a video history of catalysis. The videos are taken from lectures and interviews recorded by Burt Davis at national and international catalysis meetings and during exclusive conversations over the last three decades. The web site, www.video-history-catalysis.org, is in its early development stage, but it is now operational and contains over 370 videos. This web site will gradually grow to ultimately hold more than 1500 videos of lectures and interviews. A searchable tool to quickly locate certain videos is also under development. Most of the currently posted materials are from talks and interviews before 1990, with new material being added every week. The posted videos can be used only for educational purposes.

NACS Award Deadlines

Michel Boudart Award for the Advancement of Catalysis

Deadline: 4 November 2016

The Robert Burwell Lectureship in Catalysis

Deadline: 3 March 2017

The F. G. Ciapetta Lectureship in Catalysis

Deadline: 11 December 2015

Paul H. Emmett Award in Fundamental Catalysis

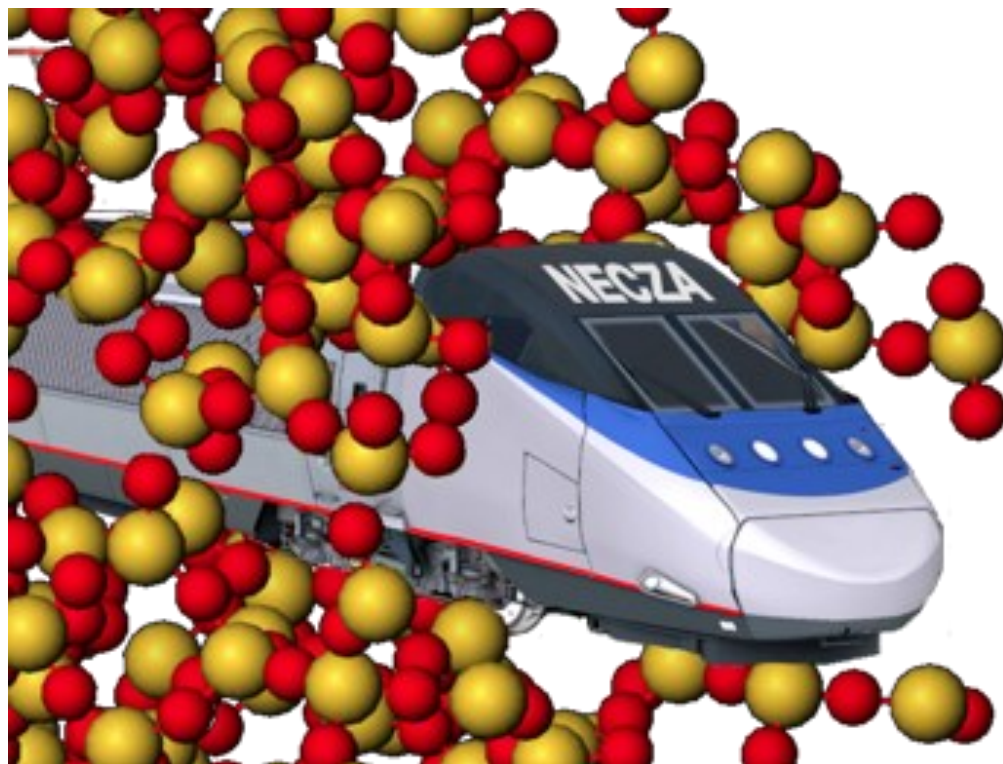
Dead-line: 7 October 2016

Eugene J. Houdry Award in Applied Catalysis

Deadline: 5 August 2016

Award for Distinguished Service in the Advancement of Catalysis

Deadline: 1 April 2016



The North East Corridor Zeolite Association (NECZA) will be holding its annual meeting on **December 11, 2015** at the University of Pennsylvania in Philadelphia. This regional meeting is a premier gathering of industrial and academic researchers working in the common areas of synthesis, characterization, and application of zeolites and other porous materials. Please visit the [NECZA](#) website to view the schedule for the meeting, which highlights the scientific program featuring presentations from six experts in the field; infor-

mation about submitting poster abstracts; and the registration form.

Pre-registration for the meeting is strongly encouraged by no later than December 4, 2015 by credit card (via Paypal on the NECZA website) or by check (payable to "NECZA"). The pre-registration fees are \$70 for professionals and \$40 for students/postdocs/retirees. On-site registration will also be accepted (checks only) at walk-in rates of \$100 for professionals and \$60 for students/postdocs/retirees.

We hope that you will be able to join us for the meeting this year.

Chicago Catalysis Club

Following the symposium in May, the Chicago Catalysis Club announces their officers for the 2015 – 2016 year. Joining the club as newly elected officers are Dr. Deng-Yang Jan of UOP (Vice President/Program Chair), Dr. David Childers of Northwestern University (Secretary), and Dr. Adriaan Sachtler of UOP (Director). Dr. Paul Dietrich of BP moves into the role of President, and Dr. Chris Nicholas of UOP moves into the role of Director. Returning to their previous duties are Dr. Wolfgang Spieker of UOP (Treasurer), Dr. Chris Marshall of Argonne National Lab (NACS Representative), and Dr. James Brazdil of INEOS (Director).

The Club is also pleased to announce speakers for their monthly dinner meetings for the 2015 – 2016 program year, which take place around the Chicagoland area. Speakers this year included Prof. Joachim Sauer of Humboldt University (Oct. 5) and Prof. Paul Dauenhauer of the University of Minnesota (Nov. 2). Scheduled speakers are Prof. Randy Snurr of Northwestern University (Dec. 7), Dr. Chris Nicholas of UOP (Jan. 11), Prof. Eranda Nikolla from Wayne State University (Feb. 8), Prof. Götz Vesper of the University of Pittsburgh (Mar. 7), and Dr. Wayne Schammel of Siluria Technologies (Apr. 11). Full details including the most up to date schedule, as well as locations and abstracts for the talks may be found on the Club website, www.catalysisclubchicago.org.

Catalysis Society of Metropolitan New York



The Catalysis Society of Metropolitan New York held its first monthly meeting at La Quinta Inn & Suites in Somerset, New Jersey, on September 16, 2015. Jing Luo (the winner of student poster competition in Annual Symposium) from University of Pennsylvania presented a comparison of 5-hydroxymethylfurfural hydrodeoxygenation over different metal catalysts in a continuous flow reactor, highlighting the difference of selectivity and stability over these carbon-supported metal catalysts. The second lecture was given by Prof. Michael J. Janik from Pennsylvania State University. He showed how to use DFT to determine electrocatalytic reaction mechanisms and guide the design of catalytic materials using examples from his group's research: hydro-

gen fuel cells, borohydride fuel cells, and carbon dioxide reduction to fuels. The group photo beside shows the two speakers hosted by Dr. Zhong He, Society Chair. From left to right are Dr. Ke Xiong (Secretary, Ingredion Inc.), Dr. Zhong He (Chair, Primus Green Energy), Dr. Lucas Dorazio (Director, BASF Corporation), Prof. Michael J. Janik (Pennsylvania State University), Jing Luo (University of Pennsylvania), Ashley Pennington (Student Representative, Rutgers University), Prof. Taejin Kim (Director-Membership, Stony Brook University), and Prof. Fuat Celik (Chair-Elect, Rutgers University).

In addition to the two speakers above, other six speakers were invited for the season 2015-2016, including Prof. Matthew Neurock (Burwell Award Lecture, University of Minnesota), Prof. Cynthia M. Friend (Harvard University), Dr. Alan Allgeier (DuPont), Dr. Conrad Zhang (Chinese Academy of Sciences), Dr. Stacey Zones (Chevron Energy and Technology Company), and Prof. Georgios Tsilomelekis (the winner of post-doc poster competition in Annual Symposium, Rutgers University now). Recent advances in electrocatalysis, computational catalysis, biomass conversion, zeolite catalysis, and homogeneous catalysis will be presented in this season by the above-mentioned speakers.

Pacific Coast Catalysis Society

The 2015 Annual Meeting of the Pacific Coast Catalysis Society was held on September 18, 2015 at the Environmental Molecular Sciences Laboratory (EMSL), a national scientific user facility located at Pacific Northwest National Laboratory (PNNL) of Richland, WA.

This annual, regional meeting had over 80 attendees from 7 universities and 3 national laboratories and the meeting covered a variety of topics including surface science, homogeneous catalysis, heterogeneous catalysis, electrocatalysis, biomass conversion, catalytic materials, and computational catalysis. The meeting consisted of a full day with 11 contributed speakers and 6 invited speakers including: Prof. Charles T. Campbell from University of Washington (the Burwell lecture), Prof. Bruce C. Gates from University of California at Davis, Dr. Heinz Frei from Lawrence Berkeley National Laboratory, Dr. Mirosław A Derewinski from Pacific Northwest National Laboratory, Prof. Jean-Sabin McEwen from Washington State University, and Dr. Felix Studt from SLAC National Accelerator Laboratory.

The meeting consisted of a joint poster session with EMSL user meeting. Graduate students participated in a poster competition with 12 poster presentations within the total 24 poster presentations. Two winners, Alyssa Hensley from Washington State University and Spencer Carey from University of Wash-

ington, were selected and each of the winners received a cash award and a certificate.

Financial support for the meeting was provided by the Institute for Integrated Catalysis at Pacific Northwest National Laboratory, by the Environmental Molecular Sciences Laboratory (EMSL), and by the two vendors, Altamira Instruments and Quantachrome Instruments. In addition, the NACS generously provided funding that enabled student participation at reduced cost and student presentation awards.

Huamin Wang and Feng Gao, both from PNNL, co-organized the symposium.

During the annual meeting, new elections were held and the following are the current officers: Huamin Wang, Chair; Philip Christopher, Vice-Chair; Kaidong Chen, Treasurer; Jean-Sabin McEwen, Secretary; and Alex Katz, NACS Representative.

Southeastern Catalysis Society

The Southeastern Catalysis Society (SECS) held its 14th Annual Symposium at the Madren Conference Center on September 27th and September 28th, 2015. The meeting began on Sunday evening with the SECS-Eastman poster session featuring 27 contributed posters followed by dinner and a lecture. Paul Barger of UOP LLC, who is the winner of the North American Catalysis Society Ciapetta Lectureship in Catalysis, gave the after-

dinner lecture titled "UOP Advanced MTO Technology – A New Route for the Production of Light Olefins". On Monday, September 28th, the Symposium continued with 19 oral presentations.

Student oral and poster presentation competition winners were presented cash awards sponsored by Altamira and Eastman, respectively. Presentation Awards: 1st place winner – Calvin R. Thomas of the University of South Carolina with the presentation "The Effects of Hydrothermal Aging and Sulfur Exposure on Ammonia Production over Three Way Catalysts for Passive SCR in Lean Burn Systems". His advisors are Prof. Jochen Lauterbach and Todd J. Toops. 2nd place winner – John Meynard M. Tengco of the University of South Carolina with the presentation "Bimetallic Ru-Pt and Pt-Co Fuel Cell Catalysts Prepared by Strong Electrostatic Adsorption and Electroless Deposition". His advisors are Profs. John R. Regalbuto and John R. Monnier. 3rd place winner – Yolanda A. Daza of the University of South Florida with the presentation "Effect of B-Site Fe,Cu-Doping on La_{0.75}Sr_{0.25}CoO₃ Perovskites for the Conversion of Carbon Dioxide to Carbon Monoxide". Her advisor is Prof. John N. Kuhn. Poster Awards: 1st place winner – Felipe Polo-Garzon of Clemson University with the poster "Reaction Mechanism for the Dry Reforming of Methane on Rh Doped Pyrochlore Catalysts: A Combined DFT and SSITKA Approach". His advisor is Prof. David A. Bruce. 2nd place winner – Debtanu Maiti of the University of South Florida with the poster "Oxygen Vacancy Formation Energies as Descriptors for Carbon Dioxide Conversion using Perov-

skite Oxides”. His advisor is Prof. John N. Kuhn. 3rd place winner – Chao Wang of the University of South Carolina with the poster “Pd/SnO₂-MnO_x-CeO₂ Catalysts for Low Temperature CO Oxidation”. His advisor is Prof. Jochen A. Lauterbach.

This year there were 71 attendees from eight Universities, Oak Ridge National Lab, Savannah River National Lab, and four commercial labs and suppliers. The SECS gratefully acknowledges generous support of the Symposium from Eastman Chemical Company, Micromeritics, Equilibar, Altamira Instruments, Elsevier, Quantachrome, and the NACS.

Southwest Catalysis Society



The Southwest Catalysis Society (SWCS) held its first Fall dinner event on Thursday, September 17th at the University of Houston. Prof. Israel Wachs (Lehigh University, Chemical Engineering) gave an after dinner talk entitled “Heterogeneous Catalysis Research in the 21st Century: Application of Operando Molecular Spectroscopy to CH₄ Activation.” More than 50 academic and industrial researchers attended the event. Present at the event include 2015 SWCS leadership team members (from left): Teng Xu, Jeff Rimer, Lin Luo, Mike Reynold, Prof. Israel Wachs, Lars Grabow, Will Quon, Travis Conant, and Nik Soultanidis. Past chair, Prof. Dan Shantz, is not present. For details, please contact the 2015 SWCS Chair, Teng Xu, at teng.xu@exxonmobil.com.

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