

1 O-S1-07	Monday 6/18/2007 3:00 PM Room: 7 <i>Oral Presentation</i>	<i>Combinatorial approach to design highly active and selective supported gold catalysts for PROX application</i> Authors: Tompos, András Hegedus, Mihály Margitfalvi, József View PDF File for this Abstract	Chemical Research Center , Budapest Hungary Chemical Research Center , Budapest Hungary Chemical Research Center , Budapest Hungary
1 O-S1-08	Monday 6/18/2007 3:30 PM Room: 7 <i>Oral Presentation</i>	<i>Optimization of Catalyst Preparation using High-Throughput Techniques</i> Authors: Modica, Frank S Ranes, L. Abrahamian, J. McGonegal, C. View PDF File for this Abstract	UOP LLC, Des Plaines, IL USA UOP LLC, Des Plaines, IL USA UOP LLC, Des Plaines, IL USA UOP LLC, Des Plaines, IL USA
1 O-S1-09	Monday 6/18/2007 4:00 PM Room: 7 <i>Oral Presentation</i>	<i>Investigation of Ag and Promoted Ag Catalysts for Ethylene Epoxidation using High-Throughput Experimentation</i> Authors: Dellamorte, Joseph C Lauterbach, Jochen Barteau, Mark A View PDF File for this Abstract	University of Delaware, Newark/Delaware USA University of Delaware, Newark/Delaware USA University of Delaware, Newark/Delaware USA
1 O-S1-10	Monday 6/18/2007 4:30 PM Room: 7 <i>Oral Presentation</i>	<i>Catalyst and Process Development for Production of Oleochemicals from Palm Oil Using High Throughput Experimentation</i> Authors: Gruter, Gert Jan Zuzaniuk, V. Niemela Veringa, M. Sijpkens, A. van der Puil, N. de Keijzer, J. Abdul Hamid, S.B. View PDF File for this Abstract	Avantium Technologies, Amsterdam Holland Avantium Technologies, Amsterdam Holland Avantium Technologies, Amsterdam Holland Avantium Technologies, Amsterdam Holland Avantium Technologies, Amsterdam Holland Avantium Technologies, Amsterdam Holland Universiti Malaya, Kuala Lumpur, Malaysia
2 - Novel Catalyst Characterization Techniques - Back to top			
2 O-S2-01-K	Monday 6/18/2007 10:00 AM Room: 5 <i>Keynote Presentation</i>	<i>BRINGING TOGETHER IN-SITU SPECTROSCOPY AND ELECTRON MICROSCOPY TO STUDY THE FUNCTION OF COMPLEX OXIDE CATALYSTS</i> Authors: Schlögl, Robert Hess, Christian Trunschke, Annette Knop-Gericke, Axel Su, Axel Knop-Gericke Hansen, Thomas W Tessonier, Jean P Hamid, Sharifah A View PDF File for this Abstract	Fritz-Haber- Institut der Max-Planck Gesellschaft, Berlin Germany Fritz-Haber- Institut der Max-Planck Gesellschaft, Berlin Germany Fritz-Haber- Institut der Max-Planck Gesellschaft, Berlin Germany Fritz-Haber- Institut der Max-Planck Gesellschaft, Berlin Germany Fritz-Haber- Institut der Max-Planck Gesellschaft, Berlin Germany Fritz-Haber- Institut der Max-Planck Gesellschaft, Berlin Germany Fritz-Haber- Institut der Max-Planck Gesellschaft, Berlin Germany COMBICAT Center, University of Malaya, Kuala Lumpur Malaysia
2 O-S2-02	Monday 6/18/2007 11:00 AM Room: 5 <i>Oral Presentation</i>	<i>Isotopic Switching Demonstrated using Pump-Probe TAP-2 Experiments</i> Authors: Fushimi, Rebecca Gleaves, John T Yablonsky, Gregory Zheng, Xiaolin View PDF File for this Abstract	Washinton University, St. Louis, MO USA Washinton University, St. Louis, MO USA Washinton University, St. Louis, MO USA Washinton University, St. Louis, MO USA
2 O-S2-03	Monday 6/18/2007	<i>Mobility of Surface Species on Supported Gold Water Gas Shift Catalysts: Isotopic Exchange of 18O2 with 16O of CeO2 and CeO2-ZrO2</i>	

	11:30 AM Room: 5	Authors: Kim, Chang Hwan King, Timothy E Thompson, Levi T View PDF File for this Abstract	University of Michigan, Ann Arbor, MI USA University of Michigan, Ann Arbor, MI USA University of Michigan, Ann Arbor, MI USA
	<i>Oral Presentation</i>		
2 O-S2-04	Monday 6/18/2007 1:30 PM Room: 5	Vibrational Spectra of Silica Gels Made From Different Aqueous Sodium Silicate Solutions Using Various Methods Authors: Miller, Neil Agarwal, Mukesh Li, Runbo Halasz, Istvan View PDF File for this Abstract	PQ Corporation, Conshohocken, PA USA PQ Corporation, Conshohocken, PA USA PQ Corporation, Conshohocken, PA USA PQ Corporation, Conshohocken, PA USA
	<i>Oral Presentation</i>		
2 O-S2-05	Monday 6/18/2007 2:00 PM Room: 5	Characterization of catalyst intermediates in methane oxidation Authors: Bricker, Maureen L Bare, Simon R Broach, Robert Brandvold, Timothy A Chen, Wensheng Kocal, Joseph A Popp, Kristoffer Greenlay, Nanette Walenga, Joel T Yang, Susan View PDF File for this Abstract	UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA UOP, Des Plaines/IL USA
	<i>Oral Presentation</i>		
2 O-S2-06	Monday 6/18/2007 3:00 PM Room: 5	In-situ and Time-Resolved Resonance Raman Spectroscopy in Catalysis Authors: Stair, Peter C View PDF File for this Abstract	Department of Chemistry, Center for Catalysis and Surface Science, Northwestern University, Evanston, Illinois 60208 USA
	<i>Oral Presentation</i>		
2 O-S2-07	Monday 6/18/2007 3:30 PM Room: 5	Isotopic Transient Studies of CH₄ and C₃H₆ Reaction Pathways in Solid Oxide Fuel Cells Authors: Yu, Zhuqiang Fisher II, James C Chuang, Steven S View PDF File for this Abstract	University of Akron, Akron Ohio USA University of Akron, Akron Ohio USA University of Akron, Akron Ohio USA
	<i>Oral Presentation</i>		
2 O-S2-08	Monday 6/18/2007 4:00 PM Room: 5	Model NO_x storage materials: NO₂ and H₂O chemistry on BaO/Al₂O₃/NiAl(110) and (100) Authors: Yi, Cheol-Woo Ozensoy, Emrah Peden, Charles Szanyi, János View PDF File for this Abstract	Pacific Northwest National Laboratory, Richland, WA USA PNNL, Richland, WA USA PNNL, Richland, WA USA PNNL, Richland, WA USA
	<i>Oral Presentation</i>		
2 O-S2-09	Monday 6/18/2007 4:30 PM Room: 5	In-situ characterization of an iron based Fischer Tropsch catalyst using DRIFTS Authors: Hexana, Wonga Coville, N. Mokoena, E. Motjope, T. View PDF File for this Abstract	University of the Witwatersrand, Johannesburg South Africa University of the Witwatersrand, Johannesburg South Africa Sasol Technology, Sasolburg, South Africa Sasol Technology, Sasolburg, South Africa
	<i>Oral Presentation</i>		
2	Tuesday	In-situ characterization of catalytic systems: differentiating actors and spectators for the water gas shift reaction on	

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- 2
O-S2-17 Tuesday
6/19/2007
3:30 PM
Room: 5
- Oral
Presentation*
- Time-Resolved X-ray Absorption Spectra Characterizing Formation and Breakup of Zeolite-Supported Iridium Cluster Catalysts***
- Authors:**
Uzun, Alper University of California, Davis, Davis / California USA
Kletnieks, Philip W University of Southern California, Los Angeles / California USA
Haw, James F University of Southern California, Los Angeles / California USA
Gates, Bruce C University of California, Davis, Davis / California USA
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- 2
O-S2-18 Tuesday
6/19/2007
4:00 PM
Room: 5
- Oral
Presentation*
- 15 Second XAFS Scans during In Situ Oxidation/Reduction of Copper Doped Ceria WGS Catalyst***
- Authors:**
Hanson, Jonathan C Brookhaven Nat. Lab., Upton, NY USA
Hould, Nathan Brookhaven Nat. Lab., Upton, NY USA
Frenkel, Anatoly Yeshiva Univ., New York, NY USA
Caliebe, Wolfgang Brookhaven Nat. Lab., Upton, NY USA
Kahalid, Syed Brookhaven Nat. Lab., Upton, NY USA
Marinkovic, Nebojsa University of Delaware, Newark, DE USA
Wen, Wen Brookhaven Nat. Lab., Upton, NY USA
Rodriguez, Jose A Brookhaven Nat. Lab., Upton, NY USA
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- 2
O-S2-19 Tuesday
6/19/2007
4:30 PM
Room: 5
- Oral
Presentation*
- X-Ray Absorption Spectroscopy Characterization of Vanadium on Fluid Catalytic Cracking Catalysts***
- Authors:**
Woo, Hyung S ExxonMobil Process Research Laboratories, Baton Rouge, LA USA
Meitzner, George D Lowry Associates, Baton Rouge, LA USA
- [View PDF File for this Abstract](#)
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- 2
O-S2-20 Wednesday
6/20/2007
10:00 AM
Room: 5
- Oral
Presentation*
- Catalyst Characterization via Aberration-Corrected STEM Imaging***
- Authors:**
Allard, Lawrence F Oak Ridge National Laboratory, Oak Ridge, TN United States
Blom, Douglas A Oak Ridge National Laboratory, Oak Ridge, TN USA
Narula, Chaitanya K Oak Ridge National Laboratory, Oak Ridge, TN USA
Bradley, Steven A Oak Ridge National Laboratory, Oak Ridge, TN USA
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- 2
O-S2-21 Wednesday
6/20/2007
10:30 AM
Room: 5
- Oral
Presentation*
- Measuring the Size and Distribution of NiO Particles in individual SBA-15 Pores by Electron Tomography.***
- Authors:**
Friedrich, Heiner Inorganic Chemistry and Catalysis, Utrecht University, 3584 AC Utrecht The Netherlands
Sietsma, Jelle R Inorganic Chemistry and Catalysis, Utrecht University, 3584 CA Utrecht The Netherlands
de Jongh, Petra E Inorganic Chemistry and Catalysis, Utrecht University, 3584 CA Utrecht The Netherlands
de Jong, Krijn P Inorganic Chemistry and Catalysis, Utrecht University, 3584 CA Utrecht The Netherlands
- [View PDF File for this Abstract](#)
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- 2
O-S2-22 Wednesday
6/20/2007
11:00 AM
Room: 5
- Oral
Presentation*
- Structure and Catalytic Characterization of Molybdenum Sulfide Nanoplatelets***
- Authors:**
Elizondo-Villarreal, Nora University of Texas at Austin, Austin TX USA
Velazquez-Castillo, R. University of Texas at Austin, Austin TX USA
Camacho, A. University of Texas at Austin, Austin TX USA
Yacamán, M.J. University of Texas at Austin, Austin TX USA
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- 2
O-S2-23 Wednesday
6/20/2007
11:30 AM
Room: 5
- Oral
Presentation*
- In-Situ Synthesis of Ni-Cu/TiO₂ Bimetallic Catalysts***
- Authors:**
Crozier, Peter A Arizona State University, Tempe, Arizona USA
Li, Peng University of New Mexico, Albuquerque USA
Nag, Nabin Engelhard Corporation, Beachwood, Ohio USA
Liu, Jingyue University of Missouri, St Louis USA
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Room: 7 Gates, Bruce C University of California, Davis, CA USA
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Oral Presentation

3
O-S3-04 Tuesday
6/19/2007
11:30 AM
Room: 7 ***CO Oxidation on Nanotowers formed from Au/CeO₂ Multilayers***
Authors:
 Zhou, Zheng Tufts University, MA United States
 Saltsburg, Howard Tufts University, MA United States
 Flytzani-Stephanopoulos, Maria Tufts University, MA United States
Oral Presentation
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3
O-S3-05-K **Tuesday**
6/19/2007
1:30 PM
Room: 7 ***Correlating Electronic and Chemical Properties of Monolayer Bimetallic Surfaces***
Authors:
 Chen, Jingguang G University of Delaware, Newark, Delaware USA
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Keynote Presentation

3
O-S3-06 Tuesday
6/19/2007
3:00 PM
Room: 7 ***Structure and Reactivity of Cluster-Derived PtFe/SiO₂ Catalysts***
Authors:
 Siani, Attilio University of South Carolina, Columbia/SC USA
 Alexeev, Oleg S University of South Carolina, Columbia/SC USA
 Captain, Burjor University of South Carolina, Columbia/SC USA
 Lafaye, Gwendoline Universite de Poitiers, Poitiers Cedex France
 Adams, Richard D University of South Carolina, Columbia/SC USA
 Amiridis, Michael D University of South Carolina, Columbia/SC USA
Oral Presentation
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3
O-S3-07 Tuesday
6/19/2007
3:30 PM
Room: 7 ***CO oxidation over Ce-Ru-O catalysts***
Authors:
 Vargas, Eunice Universidad Michoacana de San Nicolás de Hidalgo, Morelia/Michoacán Mexico
 Simakov, Andrey CCMC -UNAM, Ensenada/Baja California Mexico
 Rangel, Ricardo UUniversidad Michoacana de San Nicolás de Hidalgo, Morelia/Michoacán Mexico
 Castillon, Felipe CCMC -UNAM, Ensenada/Baja California Mexico
Oral Presentation
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3
O-S3-08 Tuesday
6/19/2007
4:00 PM
Room: 7 ***Stability of hexaaluminate-based materials for catalytic combustion prepared by the microemulsion technique***
Authors:
 Elm Svensson, Erik KTH, Chemical Technology, Stockholm Sweden
 Boutonnet, Magali KTH, Chemical Technology, Stockholm Sweden
 Järås, Sven G KTH, Chemical Technology, Stockholm Sweden
Oral Presentation
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3
O-S3-09 Tuesday
6/19/2007
4:30 PM
Room: 7 ***Catalytic Reactivity and Selectivity on LTA Encapsulated RuO₂***
Authors:
 Zhan, Bi-Zeng University of California, Berkeley, CA USA
 Iglesia, Enrique University of California, Berkeley, CA USA
Oral Presentation
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3
O-S3-10 Wednesday
6/20/2007
10:00 AM
Room: 7 ***Oxychlorination of Ethane over LaOCl/LaCl₃ Catalysts: Chlorination without a Reducible Metal Center***
Authors:
 Stangland, Eric E The Dow Chemical Company, Midland MI USA
 Hickman, Daniel A The Dow Chemical Company, Midland MI USA
 Jones, Mark E The Dow Chemical Company, Midland MI USA
 Olken, Michael M The Dow Chemical Company, Midland MI USA
 Podkolzin, Simon G The Dow Chemical Company, Midland MI USA
Oral Presentation

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- 3
O-S3-11
- Wednesday
6/20/2007
10:30 AM
Room: 7
- Oral
Presentation*
- Direct Phenol Synthesis from Benzene with Molecular Oxygen on a Novel N-interstitial Re Cluster/Zeolite Catalyst**
- Authors:**
Bal , Rajaram
Tada, Mizuki
Iwasawa, Yasuhiro
- The University of Tokyo, Tokyo Japan
The University of Tokyo, Tokyo Japan
The University of Tokyo, Tokyo Japan
- [View PDF File for this Abstract](#)
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- 3
O-S3-12
- Wednesday
6/20/2007
11:00 AM
Room: 7
- Oral
Presentation*
- Design of New Multifunctional Materials for Heterogeneous Catalysis**
- Authors:**
Davis, Mark E
Zeidan, Ryan K
- Caltech, Pasadena/CA USA
Caltech, Pasadena/CA USA
- [View PDF File for this Abstract](#)
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- 3
O-S3-13
- Wednesday
6/20/2007
11:30 AM
Room: 7
- Oral
Presentation*
- Nano clusters of Li/MgO as efficient catalyst for oxi-dehydrogenation of propane to olefins**
- Authors:**
Trionfetti, Cristiano
Babich, Igor V
Seshan, K
Lefferts, Leon
- University of Twente, Enschede The Netherlands
University of Twente, Enschede The Netherlands
University of Twente, Enschede The Netherlands
University of Twente, Enschede The Netherlands
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- 3
O-S3-14-K
- Wednesday
6/20/2007
1:30 PM
Room: 7**
- Keynote
Presentation**
- Design of Highly Active and Enantioselective Recyclable Oligomeric/Polymeric Co-Salen Catalysts for the Hydrolytic Kinetic Resolution of Epoxides**
- Authors:**
Jones, Christopher W
Weck, Marcus
Zheng, Xiaolai
Gill, Christopher S
Phan, Nam T. S
- Georgia Tech, Atlanta, GA USA
Georgia Tech, Atlanta, GA USA
Georgia Tech, Atlanta, GA USA
Georgia Tech, Atlanta, GA USA
Georgia Tech, Atlanta, GA USA
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- 3
O-S3-15
- Wednesday
6/20/2007
3:00 PM
Room: 7
- Oral
Presentation*
- Novel mesostructured Mo-V-Te-Nb mixed oxide catalysts for selective oxidation of propane to acrylic acid**
- Authors:**
Celaya Sanfiz, Almudena
Sakthivel, Ayyamperumal
Trunschke, Annette
Hansen, Thomas
Girgsdies, Frank
Jentoft, Rolf
Wild, Ute
Schlögl, Robert
- Fritz Haber Institute of the Max Planck Society, Berlin Germany
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Fritz Haber Institute of the Max Planck Society, Berlin Germany
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Fritz Haber Institute of the Max Planck Society, Berlin Germany
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- 3
O-S3-16
- Wednesday
6/20/2007
3:30 PM
Room: 7
- Oral
Presentation*
- Synthesis and Catalytic Properties of Ti-rich TS-1**
- Authors:**
Tatsumi, Takashi
Fan, Weibin
Duan, Ren-Guan
- Tokyo Institute of Technology, Yokohama Japan
Tokyo Institute of Technology, Yokohama Japan
Norfolk State University, VA USA
- [View PDF File for this Abstract](#)
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- 3
O-S3-17
- Wednesday
6/20/2007
4:00 PM
Room: 7
- Oral*
- Novel Sn(IV)phenylphosphonates as catalysts in Baeyer-Villiger oxidations**
- Authors:**
Kirumakki, Sharath
Clearfield, Abraham
- Texas A&M University, College Station, TX USA
Texas A&M University, College Station, TX USA
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Presentation

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- 3
O-S3-18
- Wednesday
6/20/2007
4:30 PM
Room: 7
- Oral
Presentation*
- Oxidative Dehydrogenation of Propane over Nanostructured Membrane Catalyst***
Authors:
Mucherie, Stephanie
Kim, Hack-Sung
Libera, Joseph A
Elam, Jeffrey W
Marshall, Christopher L
Stair, Peter C
- Argonne National Laboratory, Argonne/IL USA
Argonne National Laboratory, Argonne/IL USA
Argonne National Laboratory, Argonne/IL USA
Argonne National Laboratory, Argonne/IL USA
Argonne National Laboratory, Argonne/IL USA
Northwestern University, Evanston/IL USA
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- 3
O-S3-19
- Thursday
6/21/2007
10:00 AM
Room: 7
- Oral
Presentation*
- Utilization of Single-site Photocatalyst and Photo-assisted Deposition Method for Synthesis of Nano-sized Metal Catalyst on Zeolite Materials***
Authors:
YAMASHITA, Hiromi
MIURA, Yuki
TOMONARI, Masanori
MORI, Kohsuke
- Osaka Univ., Suita/Osaka Japan
Osaka Univ., Suita/Osaka Japan
Osaka Univ., Suita/Osaka Japan
Osaka Univ., Suita/Osaka Japan
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-
- 3
O-S3-20
- Thursday
6/21/2007
10:30 AM
Room: 7
- Oral
Presentation*
- Towards nitrogen analogues of Mars-van Krevelen processes?***
Authors:
Hargreaves, Justin S
Mckay, David
Sun, Xiaoling
- University of Glasgow, Glasgow UK
University of Glasgow, Glasgow UK
Shanghai Institute of Technology, Shanghai P R China
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- 3
O-S3-21
- Thursday
6/21/2007
11:00 AM
Room: 7
- Oral
Presentation*
- Highly Effective Carbon Nanotube Synthesis on C10 Co-MCM-41***
Authors:
Li, Nan
Lim, Sangyun
Fang, Fang
Pinault, Mathieu
Zoican, Codruta
Pfefferle, Lisa D
Haller, Gary L
- Yale University, New Haven USA
Yale University, New Haven USA
Yale University, New Haven USA
Yale University, New Haven USA
Yale University, New Haven USA
Yale University, New Haven USA
Yale University, New Haven USA
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- 3
O-S3-22
- Thursday
6/21/2007
11:30 AM
Room: 7
- Oral
Presentation*
- Phase evolution and characterization of supported CoMo / SiO₂ catalyst used in single-walled nanotube production***
Authors:
Lolli, Giulio
Sakulchaicharoen, Nataphan
Resasco, Daniel
- University of Oklahoma, Norman (OK) USA
University of Oklahoma, Norman (OK) USA
University of Oklahoma, Norman (OK) USA
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- 3
O-S3-23
- Thursday
6/21/2007
1:30 PM
Room: 7
- Oral
Presentation*
- Structure and Applications of Isolated VOx on H-MFI Zeolite for the Conversion of CH₄ and C₂H₆***
Authors:
Lacheen, Howard
Iglesia, Enrique
- University of California at Berkeley
University of California, Berkeley, CA USA
- [View PDF File for this Abstract](#)
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- 3
O-S3-24
- Thursday
6/21/2007
2:00 PM
Room: 7
- Oral*
- Mesoporous Zeolites as Hydrocarbon Cracking Catalysts***
Authors:
Pinnavaia, Thomas J
Wang, Hui
- Michigan State University, E. Lansing, MI USA
Michigan State University, East Lansing, MI USA
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Presentation

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- 3
O-S3-25
- Thursday
6/21/2007
3:00 PM
Room: 7
- Oral
Presentation*
- Isobutane/2-butene alkylation over lanthanum exchanged faujasite type zeolites***
Authors:
Sievers, Carsten
Liebert, Jürgen S
Olindo, Roberta
Lercher, Johannes A
- TU München, Garching Germany
TU München, Garching Germany
TU München, Garching Germany
TU München, Garching Germany
- [View PDF File for this Abstract](#)
-
- 3
O-S3-26
- Thursday
6/21/2007
3:30 PM
Room: 7
- Oral
Presentation*
- Design of modified mesoporous silica for selective preparation of diglycerol esters in one-step process.***
Authors:
POUILLOUX, YANNICK
RAMIREZ, ALFONSO E.
CHARLES, GWENAELLE
BARRAULT, JOEL
- CNRS LACCO, POITIERS FRANCE
CNRS LACCO, POITIERS FRANCE
CNRS LACCO, POITIERS FRANCE
CNRS LACCO, POITIERS FRANCE
- [View PDF File for this Abstract](#)
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- 3
O-S3-27
- Thursday
6/21/2007
4:00 PM
Room: 7
- Oral
Presentation*
- Esterification and Transesterification Using Sulfonated Carbon Catalysts***
Authors:
Mo, Xunhua
Lotero, Edgar
Suwannakarn, Kaewta
Lopez, Dora
Goodwin, , James G. Jr.
- Clemson University, Clemson, SC USA
Clemson University, Clemson, SC USA
Clemson University, Clemson, SC USA
Clemson University, Clemson, SC USA
Clemson University, Clemson, SC USA
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- 3
O-S3-28
- Thursday
6/21/2007
4:30 PM
Room: 7
- Oral
Presentation*
- A Kinetic Approach to the Evaluation of Active Sites in Working Bifunctional Zeolite Catalysts***
Authors:
Lukyanov, Dmitry B
Vazhnova, Tanya
- University of Bath, Bath United Kingdom
University of Bath, Bath United Kingdom
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- 3
O-S3-29
- Friday
6/22/2007
10:00 AM
Room: 7
- Oral
Presentation*
- In-situ Time-resolved Characterization of Catalysts: Nickel-molybdate and the Water-gas shift Reaction***
Authors:
Wen, Wen
Calderon, Jean F
Brito, Joaquin L
Marinkovic, Nebojsa
Hanson, Jonathan C
Rodriguez, José A
- Chemistry Department, Brookhaven National Laboratory, Upton/NY USA
Department of Chemistry, University of Puerto Rico, Cayey Puerto Rico
Centro de Química, Instituto Venezolano de Investigaciones Cientificas, Apdo/Caracas Venezuela
Department of Chemical Engineering, University of Delaware, Newark/DE USA
Chemistry Department, Brookhaven National Laboratory, Upton/NY USA
Chemistry Department, Brookhaven National Laboratory, Upton/NY USA
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-
- 3
O-S3-30
- Friday
6/22/2007
10:30 AM
Room: 7
- Oral
Presentation*
- Salen Catalysts Supported on Site-Isolated Aminosilicas Prepared with Variable-sized Spacing Groups***
Authors:
Shiels, Rebecca A
Hicks, Jason C
Jones, Christopher W
- Georgia Institute of Technology, Atlanta, GA USA
Georgia Institute of Technology, Atlanta, GA USA
Georgia Institute of Technology, Atlanta, GA USA
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- 3
O-S3-31
- Friday
6/22/2007
11:00 AM
Room: 7
- Oral
Presentation*
- Role of Excess MoO₃ in Iron-Molybdate Methanol Oxidation Catalysts***
Authors:
Routray, Kamalakanta
Wachs, Israel E
- Lehigh University, Bethlehem/PA US
Lehigh University, Bethlehem/PA US
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3 O-S3-32	Friday 6/22/2007 11:30 AM Room: 7	<i>Molecular Heterogeneous Catalysis: A single-site Zeolite-Supported Rhodium Complex for Acetylene Cyclotrimerization</i>
	<i>Oral Presentation</i>	Authors: Kletnieks, Philip W University of Southern California, Los Angeles, CA USA Liang, A.J. University of California, Davis, CA, USA Cracium, R. University of Alabama, Tuscaloosa, AL, USA Ehresmann, J.O. University of Southern California, Los Angeles, CA USA Marcus, D.M. University of Southern California, Los Angeles, CA USA Bhirud, V.A. University of California, Davis, CA, USA Klaric, M.M. University of Southern California, Los Angeles, CA USA Hayman, M.J. University of Southern California, Los Angeles, CA USA Guenther, D.R. University of Southern California, Los Angeles, CA USA Bagatchenko, O.P University of Southern California, Los Angeles, CA USA Dixon, D.A. University of Alabama, Tuscaloosa, AL, USA Gates, B.C. University of California, Davis, CA, USA Haw, J.F. University of Southern California, Los Angeles, CA USA View PDF File for this Abstract

4 - Catalytic Technology for Protection of the Environment - [Back to top](#)

4 O-S4-01	Monday 6/18/2007 10:00 AM Room: 2	<i>Evidence for Rh electron-deficient atoms (Rhdelta+) as the catalytic species for CO oxidation when supported on Ce0.68Zr0.32O2: a combined N2-FTIR, benzene hydrogenation and kinetic study</i>
	<i>Oral Presentation</i>	Authors: Fontaine-Gautrelet, Céline Université Pierre et Marie Curie, Paris France Krafft, Jean-Marc Université Pierre et Marie Curie, Paris France Djéga-Mariadassou, Gérald Université Pierre et Marie Curie, Paris France Thomas, Cyril Université Pierre et Marie Curie, Paris France View PDF File for this Abstract

4 O-S4-02	Monday 6/18/2007 10:30 AM Room: 2	<i>"Advances in the Development and Evaluation of Low-NOx CO Combustion Promoters for FCC Regenerator Applications"</i>
	<i>Oral Presentation</i>	Authors: Gonzalez, Jorge A Albemarle, Pasadena, TX US Rainer, Darrell R Albemarle, Pasadena, TX US Luo, Lin Albemarle, Pasadena, TX USA View PDF File for this Abstract

4 O-S4-03	Monday 6/18/2007 11:00 AM Room: 2	<i>Co-Ni/Al2O3 oxygen carrier for chemical-looping combustion: Reactivity, stability and kinetics study</i>
	<i>Oral Presentation</i>	Authors: Hossain, Mohammad M The University of Western Ontario, London Canada de Lasa, Hugo I The University of Western Ontario, London Canada View PDF File for this Abstract

4 O-S4-04	Monday 6/18/2007 11:30 AM Room: 2	<i>The promotion effect operated by CeO2 on Pd-PdO transformation in CH4 combustion catalysts</i>
	<i>Oral Presentation</i>	Authors: Colussi, Sara University of Udine, Udine Italy Trovarelli, Alessandro University of Udine, Udine Italy Groppi, Gianpiero Politecnico of Milan, Milano Italy Llorca, Jordi Univesitat Politecnica de Catalunya, Barcelona Spain View PDF File for this Abstract

4 O-S4-05	Monday 6/18/2007 1:30 PM Room: 2	<i>Zirconia doped with La Fe synthesized by sol gel, used in the trichloroethylene catalytic combustion</i>
	<i>Oral Presentation</i>	Authors: Rivera De la Rosa, Javier Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, San Nicolas de los Garza, Nuevo León Mexico Hernández, Aracely Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, San Nicolas de los Garza, Nuevo León Mexico Ledezma, Juan José Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, San Nicolas De los Garza, Nuevo León Mexico

Rojas, Fernando Departamento de Química, Universidad Autónoma Metropolitana-Iztapalapa, Mexico, D. F. Mexico
 Goller, Gültekin Dep. of Metallurgical and Materials Eng. Istanbul Technical University , Istanbul Turkey
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4
O-S4-06 Monday
6/18/2007
2:00 PM
Room: 2

*Oral
Presentation*

Preparation of Zero-valent Iron Aerogels for TCE Dechlorination
Authors:
 Ryu, Jihye Korea Institute of Science and Technology, Seoul Korea
 Suh, Dong Jin Korea Institute of Science and Technology, Seoul Korea
 Suh, Young-Woong Korea Institute of Science and Technology, Seoul Korea
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4
O-S4-07 Monday
6/18/2007
3:00 PM
Room: 2

*Oral
Presentation*

Silica and Titania Supported Ni-Au: Application in Catalytic Hydrodechlorination
Authors:
 Louis, Catherine Université Pierre et Marie Curie, Paris France
 Yuan, G. University of Kentucky, Lexington, KY, USA
 Delannoy, L. Université Pierre et Marie Curie, Paris France
 Keane, M.A. Heriot-Watt University, Edinburgh, Scotland, UK
[View PDF File for this Abstract](#)

4
O-S4-08 Monday
6/18/2007
3:30 PM
Room: 2

*Oral
Presentation*

Greenhouse Gas Dry Reforming to Syn-Gas
Authors:
 Castaldi, Marco J Columbia University, New York / NY USA
 Whitmore, N.W. Columbia University, New York / NY USA
 Farrauto, R.J. Columbia University, New York / NY USA
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4
O-S4-09 Monday
6/18/2007
4:00 PM
Room: 2

*Oral
Presentation*

Activated Carbon Catalysts for the Production of Hydrogen via the Sulfur-Iodine Thermochemical Water Splitting Cycle
Authors:
 Ginosar, Daniel M Idaho National Laboratory, Idaho Falls, ID U.S.A.
 Petkovic, Lucia M Idaho National Laboratory, Idaho Falls, ID U.S.A.
 Rollins, Harry W Idaho National Laboratory, Idaho Falls U.S.A.
 Burch, Kyle C Idaho National Laboratory, Idaho Falls, ID U.S.A.
 Deiana, Cristina Universidad Nacional de San Juan, San Juan Argentina
 Silva, Hugo S Universidad Nacional de San Juan, San Juan Argentina
 Sardella, Maria F Universidad Nacional de San Juan, San Juan Argentina
 Granados, Dolly Universidad Nacional de San Juan, San Juan Argentina
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4
O-S4-10 Monday
6/18/2007
4:30 PM
Room: 2

*Oral
Presentation*

Sulfuric Acid Decomposition Reaction: Atomic-Scale Mechanisms of Deactivation of Supported Transition Metal Particle Catalysts
Authors:
 Rashkeev, Sergey N Idaho National Laboratory, Idaho Falls, Idaho United States
 Ginosar, Daniel M Idaho National Laboratory, Idaho Falls, Idaho United States
 Petkovic, Lucia M Idaho National Laboratory, Idaho Falls, Idaho United States
 Farrell, Helen H Idaho National Laboratory, Idaho Falls, Idaho United States
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4
O-S4-11-K **Tuesday
6/19/2007
10:00 AM
Room: 2**

*Keynote
Presentation*

Emulsion Catalysis for Ultra-deep Desulfurization and Chiral Synthesis: An Environmentally Benign and Green Chemistry Approach
Authors:
 Li, Can Dalian Institute of Chemical Physics, Dalian 116023 China
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4
O-S4-12 Tuesday
6/19/2007
11:00 AM

Prospects for Reductive Catalysis in Groundwater Remediation: Bimetallic Nanoparticles for Water-Phase Hydrodechlorination
Authors:

Room: 2 Heck, Kimberly N Rice University,
Nutt, Michael O Rice University,
Oral Fang, Yu -lun Rice University,
Presentation Alvarez, Pedro Rice University,
Wong, Michael S Department of Chemical and Biomolecular Engineering, Rice University, Houston, TX USA
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4 Tuesday ***Selective catalytic oxidation of hydrogen sulfide: influence of surface characteristics and sodium hydroxide on the***
O-S4-13 6/19/2007 ***catalytic activity of activated carbons***
11:30 AM
Room: 2 **Authors:**
Schwartz, Viviane Oak Ridge National Laboratory, Oak Ridge/TN USA
Bashkova, Svetlana Oak Ridge National Laboratory, Oak Ridge/TN USA
Oral Armstrong, Timothy R Oak Ridge National Laboratory, Oak Ridge/TN USA
Presentation
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4 Tuesday ***Design of hydrophobic zeolite material by modification using triethoxyfluorosilane and its application as a support***
O-S4-14 6/19/2007 ***of TiO₂ photocatalyst***
1:30 PM
Room: 2 **Authors:**
KUWAHARA, Yasutaka Osaka Univ., Suita/Osaka Japan
KAWASAKI, Shinichi Osaka Univ., Suita/Osaka Japan
Oral MORI, Kohsuke Osaka Univ., Suita/Osaka Japan
Presentation YAMASHITA, Hiromi Osaka Univ., Suita/Osaka Japan
[View PDF File for this Abstract](#)

4 Tuesday ***Nanostructures for Photoelectrochemical Water Splitting***
O-S4-15 6/19/2007 **Authors:**
2:00 PM Aurora, Peter H University of Michigan, Ann Arbor, MI USA
Room: 2 Webster, Leon A University of Michigan, Ann Arbor, MI USA
Thompson, Levi T University of Michigan, Ann Arbor, MI USA
Oral
Presentation [View PDF File for this Abstract](#)

4 Tuesday ***Photocatalytic reaction pathways of ethanol on TiO₂***
O-S4-16 6/19/2007 **Authors:**
3:00 PM Guzman-Montanez, Felipe The University of Akron, Akron / Ohio USA
Room: 2 Yu, Zhiqiang The University of Akron, Akron / Ohio USA
Oral Chuang, Steven S The University of Akron, Akron / Ohio USA
Presentation Yang, Chen The University of Akron, Akron / Ohio USA
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4 Tuesday ***Production of hydrogen from biomass: Integrated biological and thermo-chemical approach***
O-S4-17 6/19/2007 **Authors:**
3:30 PM Swami, Sadashiv M University of Toledo, Toledo, OH USA
Room: 2 Abraham, Martin A University of Toledo, Toledo, OH USA
Oral
Presentation [View PDF File for this Abstract](#)

4 Tuesday ***Production of hydrocarbons by catalytic degradation of low density polyethylene over Co-ZSM-5 and H-ZSM-11***
O-S4-18 6/19/2007 **Authors:**
4:00 PM Pierella, Liliana GNM-CITeQ-UTN-FRC, Córdoba Argentina
Room: 2 Saux, Clara GNM-CITeQ-UTN-FRC, Córdoba Argentina
Oral Renzini, María S GNM-CITeQ-UTN-FRC, Córdoba Argentina
Presentation [View PDF File for this Abstract](#)

4 Tuesday ***Feedstock Recycling of Plastic Wastes by Hydrocracking***
O-S4-19 6/19/2007 **Authors:**
4:30 PM Hernandez-Martinez, Jesus University of Manchester, Manchester UK
Room: 2 Garforth, Arthur A University of Manchester, Manchester UK
Oral
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Presentation

4 O-S4-20	Wednesday 6/20/2007 10:00 AM Room: 2	Selective Catalytic Reduction of NO by CO Over Titania Supported Transition Metal Oxide Catalysts at Low Temperature Authors: Pavani, Sreekanth M Smirniotis, Panagiotis G	University of Cincinnati, Cincinnati USA University of Cincinnati, Cincinnati USA
	<i>Oral Presentation</i>	View PDF File for this Abstract	
4 O-S4-21	Wednesday 6/20/2007 10:30 AM Room: 2	Sulfated Zirconia as Alkali-Resistant Support for Catalytic NOx Removal Authors: Due-Hansen, Johannes Kustov, Arkady L Christensen, Claus H Fehrmann, Rasmus	Center for Sustainable and Green Chemistry, Department of Chemistry, Technical University of Denmark, Lyngby Denmark Center for Sustainable and Green Chemistry, Department of Chemistry, Technical University of Denmark, Lyngby Denmark Center for Sustainable and Green Chemistry, Department of Chemistry, Technical University of Denmark, Lyngby Denmark Center for Sustainable and Green Chemistry, Department of Chemistry, Technical University of Denmark, Lyngby Denmark
	<i>Oral Presentation</i>	View PDF File for this Abstract	
4 O-S4-22	Wednesday 6/20/2007 11:00 AM Room: 2	Investigation of NOx Reduction over Pd-Based FCC Additives Using In-situ FTIR Authors: Krishnamoorthy, Sundaram Ziebarth, Michael S Yaluris, G. Roberie, T.G. Alexeev, O.S. Amiridis, M.	W. R. Grace, Columbia, MD USA W. R. Grace, Columbia, MD USA W. R. Grace, Columbia, MD USA W. R. Grace, Columbia, MD USA University of South Carolina, Columbia, SC, USA University of South Carolina, Columbia, SC, USA
	<i>Oral Presentation</i>	View PDF File for this Abstract	
4 O-S4-23	Wednesday 6/20/2007 11:30 AM Room: 2	Real-time Observation of Platinum Redispersion on Ceria-based oxide by In-situ Turbo-XAS Authors: Nagai, Yasutaka Takagi, Nobuyuki Ikeda, Yasuo Dohmae, Kazuhiko Tanabe, Toshitaka Guillera, Gemma Pascarelli, Sakura Newton, Mark Shinjoh, Hirofumi Matsumoto, Shin'ichi	TOYOTA Central R&D Labs., Inc., Nagakute, Aichi Japan TOYOTA Motor Corporation Higashi-fuji Technical Center, Shizuoka Japan TOYOTA Motor Europe Technical Centre, Zaventem Belgium TOYOTA Central R&D Labs., Inc., Nagakute, Aichi Japan TOYOTA Central R&D Labs., Inc., Nagakute, Aichi Japan European Synchrotron Radiation Facility, Grenoble France European Synchrotron Radiation Facility, Grenoble France European Synchrotron Radiation Facility, Grenoble France TOYOTA Central R&D Labs., Inc., Nagakute, Aichi Japan TOYOTA Motor Corporation, Toyota, Aichi Japan
	<i>Oral Presentation</i>	View PDF File for this Abstract	
4 O-S4-24	Wednesday 6/20/2007 1:30 PM Room: 2	Effect of hydrogen on the CO oxidation and NO reduction reactions over a commercial TWC Authors: Baik, Joon Hyun Kwon, Yong Tak Kwon, Hyuk Jae Nam, In-Sik Oh, Se H.	Pohang University of Science and Technology, Pohang Korea Pohang University of Science and Technology, Pohang Korea Pohang University of Science and Technology, Pohang Korea Pohang University of Science and Technology, Pohang Korea General Motors R&D center, Warren USA
	<i>Oral Presentation</i>	View PDF File for this Abstract	
4 O-S4-25	Wednesday 6/20/2007 2:00 PM Room: 2	Marked effect of In, Pb and Ce addition upon the reduction of NO by CO over SiO2 supported Pd catalysts Authors: NAITO, SHUICHI HIRANO, TAKASHI OZAWA, YOSHIYUKI MIYAO, TOSHIHIRO	KANAGAWA UNIV., YOKOHAMA JAPAN KANAGAWA UNIV., YOKOHAMA JAPAN KANAGAWA UNIV., YOKOHAMA JAPAN KANAGAWA UNIV., YOKOHAMA JAPAN
	<i>Oral Presentation</i>		

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4 O-S4-26	Wednesday 6/20/2007 3:00 PM Room: 2	<i>A combined in situ DRIFTS and fast transient kinetic study of the effect of H₂ on the Selective Catalytic Reduction of NO_x with octane using isotopically labelled 15NO</i> Authors: Breen, John P Burch, Robbie Hardacre, Chris Hill, Chris J Rioche, Cyrille	CenTACat, Queens University Belfast, Belfast UK CenTACat, Queens University Belfast, Belfast UK CenTACat, Queens University Belfast, Belfast UK CenTACat, Queens University Belfast, Belfast UK CenTACat, Queens University Belfast, Belfast UK
	<i>Oral Presentation</i>		View PDF File for this Abstract
4 O-S4-27	Wednesday 6/20/2007 3:30 PM Room: 2	<i>Studies of the mechanisms for NO_x reduction with oxygenate additives.</i> Authors: Yeom, Younghoon Li, Meijun Sachtler, Wolfgang Weitz, Eric	Northwestern University, Evanston/IL Northwestern University, Evanston/IL Northwestern University, Evanston/IL Northwestern University, Evanston/IL
	<i>Oral Presentation</i>		View PDF File for this Abstract
4 O-S4-28	Wednesday 6/20/2007 4:00 PM Room: 2	<i>Low Temperature NO_x Removal from Diesel Exhaust by Coupling Ethylene Glycol Reforming with SCR</i> Authors: Law, Hiu Ying Kung, Mayfair C Kung, Harold H	Northwestern University, Evanston, IL USA Northwestern University, Evanston, IL USA Northwestern University, Evanston, IL USA
	<i>Oral Presentation</i>		View PDF File for this Abstract
4 O-S4-29	Wednesday 6/20/2007 4:30 PM Room: 2	<i>Ag-based catalysts for diesel soot combustion</i> Authors: Aneggi, Eleonora Trovarelli, Alessandro Llorca, Jordi de Leitenburg, Carla Dolcetti, Giuliano	Università degli Studi di Udine, Udine Italy Università degli Studi di Udine, Udine Italy Universitat de Barcelona, Barcelona Spain Università degli Studi di Udine, Udine Italy Università degli Studi di Udine, Udine Italy
	<i>Oral Presentation</i>		View PDF File for this Abstract
4 O-S4-30	Thursday 6/21/2007 10:00 AM Room: 2	<i>Hydrothermal Stability of Fe/Zelite SCR Catalyst for NO_x Reduction of Diesel Engine Exhaust Gas</i> Authors: Liu, Zheng Yezerets, Aleksey Currier, Neal	Cummins Inc., Columbus/Indiana USA Cummins Inc., Columbus/Indiana USA Cummins Inc., Columbus/Indiana USA
	<i>Oral Presentation</i>		View PDF File for this Abstract
4 O-S4-31	Thursday 6/21/2007 10:30 AM Room: 2	<i>The Impact of Urea on Hydrothermally Aged Cu/Zelite SCR Catalysts</i> Authors: Cheng, Yisun Lambert, Christine Hoard, John Kwak, Ja Hun Peden, Charles H	Ford Motor Company, Dearborn, MI USA Ford Motor Company, Dearborn, MI USA Ford Motor Company, Dearborn, MI USA PNNL, Richland, WA USA PNNL, Richland, WA USA
	<i>Oral Presentation</i>		View PDF File for this Abstract
4 O-S4-32	Thursday 6/21/2007 11:00 AM Room: 2	<i>NO/NO₂ -NH₃ SCR reaction over a V-based catalyst for Diesel exhausts after treatment</i> Authors: Nova, Isabella Tronconi, Enrico Ciardelli, Cristian	Politecnico di Milano, Milan Italy Politecnico di Milano, Milan Italy Politecnico di Milano, Milan Italy
	<i>Oral Presentation</i>		View PDF File for this Abstract

4 O-S4-33	Thursday 6/21/2007 11:30 AM Room: 2	<i>Selective Catalytic Reduction of NO by Ammonia Using Mesoporous Fe-Containing Zeolite Catalysts: An Option for Automotive Applications</i> Authors: Kustov, Arkady L Center for Sustainable and Green Chemistry, Technical University of Denmark, Lyngby Denmark Kustova, Marina Center for Sustainable and Green Chemistry, Technical University of Denmark, Lyngby Denmark Christensen, Claus H Center for Sustainable and Green Chemistry, Technical University of Denmark, Lyngby Denmark View PDF File for this Abstract
	<i>Oral Presentation</i>	
4 O-S4-34-K	Thursday 6/21/2007 1:30 PM Room: 2 Keynote Presentation	<i>Actively Controlled Catalytic Systems With a "Memory" For Diesel Exhaust Emissions Reduction</i> Authors: Yezerets, Aleksey Cummins Inc, Columbus, IN USA Currier, Neal W Cummins Inc, Columbus, IN USA Li, Junhui Cummins Inc, Columbus, IN USA Epling, William S University of Waterloo, Waterloo, Ontario Canada View PDF File for this Abstract
4 O-S4-35	Thursday 6/21/2007 3:00 PM Room: 2	<i>Selectivity aspects of the reduction of stored NOx over Pt-Ba/Al2O3 Lean NOx Trap systems</i> Authors: Nova, Isabella CMIC-Politecnico di Milano, Milan Italy Lietti, Luca CMIC-Politecnico di Milano, Milan Italy Forzatti, Pio CMIC-Politecnico di Milano, Milan Italy View PDF File for this Abstract
	<i>Oral Presentation</i>	
4 O-S4-36	Thursday 6/21/2007 3:30 PM Room: 2	<i>Regeneration of Pt/BaO/Al2O3 NOx Traps with H2: Role of Ammonia</i> Authors: Mulla, Shadab S Purdue University, West Lafayette, IN USA Cumarantunge, Lasitha Purdue University, West Lafayette, IN USA Yezerets, Aleksey Cummins Inc., Columbus, IN USA Currier, Neal W Cummins Inc., Columbus, IN USA Delgass, W N Purdue University, West Lafayette, IN USA Caruthers, James M Purdue University, West Lafayette, IN USA Ribeiro, Fabio H Purdue University, West Lafayette, IN USA View PDF File for this Abstract
	<i>Oral Presentation</i>	
4 O-S4-37	Thursday 6/21/2007 4:00 PM Room: 2	<i>Micro-kinetic modeling of Lean NOx Trap regeneration chemistry</i> Authors: Larson, Rich A Sandia National Laboratories, Livermore, CA USA Pihl, Josh A Oak Ridge National Laboratory, Knoxville, TN USA Chakravarthy, Veerathu K Oak Ridge National Laboratory, Knoxville, TN USA Daw, C. S Oak Ridge National Laboratory, Knoxville, TN USA View PDF File for this Abstract
	<i>Oral Presentation</i>	
4 O-S4-38	Thursday 6/21/2007 4:30 PM Room: 2	<i>The Effect of Water on the Adsorbed NOx species over BaO/Al2O3 NOx Storage Materials: A Combined FTIR and In Situ Time-Resolved XRD study</i> Authors: Szanyi, Janos Pacific Northwest National Laboratory, Richland WA Kwak, Ja Hun PNNL, Richland WA Kim, Do Heui PNNL, Richland WA Hanson, Jonathan Brookhaven National Laboratory, Upton, NY USA View PDF File for this Abstract
	<i>Oral Presentation</i>	
4 O-S4-39	Friday 6/22/2007 10:00 AM Room: 2	<i>Coupled Theoretical and Experimental Analysis of Surface Coverage Effects in Pt-catalyzed NO Oxidation</i> Authors: Schneider, William F University of Notre Dame, Notre Dame, IN USA Getman, Rachel B University of Notre Dame, Notre Dame, IN USA Mun, B. S LBNL, Berkeley, CA USA
	<i>Oral</i>	

Presentation

Rioux, R. M	Harvard University, Cambridge, MA USA
Epling, W. S	University of Waterloo, Waterloo, Ontario Canada
Zemlyanov, D.	Purdue University, W. Lafayette, IN USA
Smeltz, A. D	Purdue University, W. Lafayette, IN USA
Delgass, W. N	Purdue University, W. Lafayette, IN USA
Ribeiro, F. H	Purdue University, W. Lafayette, IN USA

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4
O-S4-40

Friday
6/22/2007
10:30 AM
Room: 2

Assessing a Commercial Lean NO_x Trap Performance via Spatiotemporal Species Profile Measurements

Authors:

Choi, Jae-Soon	Oak Ridge National Laboratory, Oak Ridge USA
Prikhodko, Vitaly	Oak Ridge National Laboratory, Oak Ridge USA
Partridge, William P	Oak Ridge National Laboratory, Oak Ridge USA
Daw, Charles S	Oak Ridge National Laboratory, Oak Ridge USA

*Oral
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4
O-S4-41

Friday
6/22/2007
11:00 AM
Room: 2

Effect of CeO₂ on the Storage and Regeneration Behavior of Lean NO_x Traps

Authors:

Toops, Todd J	Fuels, Engines, and Emissions Research Center, Oak Ridge National Laboratory, Knoxville/Tennessee USA
Choi, Jae-Soon	Fuels, Engines, and Emissions Research Center, Oak Ridge National Laboratory, Knoxville/Tennessee USA
Crocker, Mark	University of Kentucky Center for Applied Energy Research, Lexington/Kentucky USA
Ji, Yaying	University of Kentucky Center for Applied Energy Research, Lexington/Kentucky USA

*Oral
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4
O-S4-42

Friday
6/22/2007
11:30 AM
Room: 2

Barium loading effect on the Desulfation of Pt/BaO/Al₂O₃ Lean NO_x Trap Catalysts: in situ Sulfur XANES and TR-XRD study

Authors:

Kim, Do Heui	PNNL, Richland, WA USA
Kwak, Ja Hun	PNNL, Richland, WA USA
Szanyi, Janos	PNNL, Richland, WA USA
Wang, Xianqin	PNNL, Richland, WA USA
Hanson, Jonathan C	BNL, Upton, NY USA
Peden, Charles H	PNNL, Richland, WA USA

*Oral
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5 - Catalyst Deactivation, Regeneration and Disposition - [Back to top](#)

5
O-S5-01

Thursday
6/21/2007
10:00 AM
Room: 4

Sintering Studies on Model Catalytic Systems

Authors:

DeLaRiva, Andrew T	University of New Mexico, Albuquerque/New Mexico USA
Hansen, T.W.	University of New Mexico, Albuquerque/New Mexico USA
Goeke, R.	University of New Mexico, Albuquerque/New Mexico USA
Datye, A.	University of New Mexico, Albuquerque/New Mexico USA

*Oral
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5
O-S5-02

Thursday
6/21/2007
10:30 AM
Room: 4

In Situ UV-vis-NIR Spectroscopic Investigation of Highly Reactive Surface Species Formed during Alkane Skeletal Isomerization

Authors:

Chan Thaw, Carine	Fritz Haber Institute of the Max Planck Society, Berlin Germany
Tzolova-Müller, Genka	Fritz Haber Institute of the Max Planck Society, Berlin Germany
Garin, Francois	UMR 7515 du CNRS, ECPM-ULP, Strasbourg France
Schloegl, Robert	Fritz Haber Institute of the Max Planck Society, Berlin Germany
Jentoft, Friederike C	Fritz Haber Institute of the Max Planck Society, Berlin Germany

*Oral
Presentation*

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5
O-S5-03

Thursday
6/21/2007
11:00 AM
Room: 4

High temperatures sublimation and sintering in nanoparticle catalysts

Authors:

Farrell, Helen H	Idaho National Laboratory, Idaho Falls, ID U.S.A.
Ginosar, Daniel M	Idaho National Laboratory, Idaho Falls, ID U.S.A.

Oral Presentation

Petkovic, Lucia M	Idaho National Laboratory, Idaho Falls, ID U.S.A.
Pinhero, Patrick J	Idaho National Laboratory, Idaho Falls, ID U.S.A.
Rashkeev, Sergey	Idaho National Laboratory, Idaho Falls, ID U.S.A.
Rollins, Harry W	Idaho National Laboratory, Idaho Falls, ID U.S.A.

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5
O-S5-04

Thursday
6/21/2007
11:30 AM
Room: 4

Heat Transfer in Granular Flow in Rotary Calciners: Experiments and Particle Dynamics Simulations

Authors:

Tomassone, M. Silvina	Rutgers University, Piscataway, NJ US
Chaudhuri, B.	Rutgers University, Piscataway, NJ US
Muzzio, F.J.	Rutgers University, Piscataway, NJ US

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5
O-S5-05

Thursday
6/21/2007
1:30 PM
Room: 4

Atomic-scale Imaging of Deactivation Mechanisms in Nickel-based Steam-reforming Catalysts

Authors:

Helveg, Stig	Haldor Topsoe A/S, DK -2800 Kgs. Lyngby Denmark
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5
O-S5-06

Thursday
6/21/2007
2:00 PM
Room: 4

On the Correct Solution for the Ostwald Ripening Mechanism during Sintering of Catalysts

Authors:

Soto-Mercader, Enrique	Department of Process Engineering, Universidad A. Metropolitana-Iztapalapa, Mexico, D.F. Mexico
Salinas - Rodriguez, Elizabeth	Department of Process Engineering, Universidad A. Metropolitana-Iztapalapa, México, D.F. Mexico
Fuentes, Gustavo A	Department of Process Engineering, Universidad A. Metropolitana-Iztapalapa, Mexico, D.F. Mexico

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5
O-S5-07

Thursday
6/21/2007
3:00 PM
Room: 4

Sulfur deactivation of high-temperature water-gas shift catalysts

Authors:

Zhang, Lingzhi	The Ohio State University, Columbus, OH USA
Ozkan, Umit S	The Ohio State University, Columbus, OH USA

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5
O-S5-08

Thursday
6/21/2007
3:30 PM
Room: 4

Au-catalysts - mechanistic and deactivation studies of water gas shift reaction

Authors:

Makkee, Michiel	TU Delft, Delft Netherlands
Mul, Guido	TU Delft, Delft Netherlands
Silverova, Bozena	TU Delft, Delft Netherlands

Oral Presentation

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5
O-S5-09

Thursday
6/21/2007
4:00 PM
Room: 4

Effect of Soot Accumulation on Light-Off Performance of Field-Aged and Accelerated Phosphorus Poisoning Diesel Oxidation Catalysts

Authors:

Eaton, Scott J	Oak Ridge National Laboratory, Knoxville, Tennessee USA
Nguyen, Ke	University of Tennessee, Knoxville, Tennessee USA
Bunting, Bruce G	Oak Ridge National Laboratory, Knoxville, Tennessee USA
Toops, Todd J	Oak Ridge National Laboratory, Knoxville, Tennessee USA

Oral Presentation

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5
O-S5-10

Thursday
6/21/2007
4:30 PM
Room: 4

Reaction of NO and O2 to NO2 on supported and model Pt catalysts: Catalyst deactivation and kinetics as a function of particle size

Authors:

Mulla, Shadab S	Purdue University, West Lafayette, IN USA
Cumaranatunge, Lasitha	Purdue University, West Lafayette, IN USA
Smeltz, Andrew	Purdue University, West Lafayette, IN USA

Oral Presentation

<i>Presentation</i>	Kim, Seung Min Blom, Douglas Allard, Lawrence Miller, Jeffrey Stach, Eric Ribeiro, Fabio H Delgass, W N View PDF File for this Abstract	Purdue University, West Lafayette, IN USA Oak Ridge National Laboratory, Oak Ridge, TN USA Oak Ridge National Laboratory, Oak Ridge, TN USA BP Research Center, Naperville, IL USA Purdue University, West Lafayette, IN USA Purdue University, West Lafayette, IN USA Purdue University, West Lafayette, IN USA
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5 O-S5-11-K	Friday 6/22/2007 10:00 AM Room: 4 Keynote Presentation	<i>In Situ MRI Studies of Catalyst Deactivation in a Trickle-Bed Reactor</i> Authors: Huang, Zhenyu Dunckley, Christopher P Sederman, Andrew J Mantle, Michael D Gladden, Lynn F View PDF File for this Abstract	University of Cambridge, Cambridge UK University of Cambridge, Cambridge UK University of Cambridge, Cambridge UK University of Cambridge, Cambridge UK University of Cambridge, Cambridge UK
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5 O-S5-12	Friday 6/22/2007 11:00 AM Room: 4 <i>Oral</i> <i>Presentation</i>	<i>Deactivation mechanisms in gold based low temperature water gas shift catalysts</i> Authors: Burch, R Hardacre, C Chen, Y Goguet, A Meunier, F Hu, P Joyner, R W Maguire, N Mun, B S Shekhtman, S O Thompsett, D Tibiletti, D View PDF File for this Abstract	Queen's University, Belfast UK Queen's University, Belfast UK Queen's University, Belfast UK Queen's University, Belfast UK Queen's University, Belfast UK Queen's University, Belfast UK Queen's University, Belfast UK Queen's University, Belfast UK ALS, Berkeley USA Queen's University, Belfast UK Johnson Matthey, Sonning Common UK Queen's University, Belfast UK
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5 O-S5-13	Friday 6/22/2007 11:30 AM Room: 4 <i>Oral</i> <i>Presentation</i>	<i>Rh/CeO₂-ZrO₂ catalyst deactivation patterns during ethanol-steam reforming at low temperatures</i> Authors: Wang, Yong Platon, Alex Wang, XianQin Roh, Hyun-Seog King, David L View PDF File for this Abstract	Pacific Northwest National Laboratory, Richland, WA U.S.A. Pacific Northwest National Laboratory, Richland, WA USA Pacific Northwest National Laboratory, Richland, WA U.S.A. Korea Institute of Energy Research, Daejeon, Yuseong-Gu South Korea Pacific Northwest National Laboratory, Richland, WA U.S.A.
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6 - Syngas Conversion - [Back to top](#)

6 O-S6-01	Thursday 6/21/2007 10:00 AM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Highly dispersed cobalt catalysts for Fischer-Tropsch synthesis</i> Authors: den Breejen, Johan P. Sietsma, Jelle R.A. de Jongh, Petra E. van Dillen, A. Jos Bitter, Johannes H. de Jong, Krijn P. View PDF File for this Abstract	Utrecht University, Inorganic Chemistry and Catalysis, Utrecht The Netherlands Utrecht University, Inorganic Chemistry and Catalysis, Utrecht The Netherlands Utrecht University, Inorganic Chemistry and Catalysis, Utrecht The Netherlands Utrecht University, Inorganic Chemistry and Catalysis, Utrecht The Netherlands Utrecht University, Inorganic Chemistry and Catalysis, Utrecht The Netherlands Utrecht University, Inorganic Chemistry and Catalysis, Utrecht The Netherlands
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6 O-S6-02	Thursday 6/21/2007 10:30 AM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Fischer-Tropsch Synthesis with Iron Nano-catalyst</i> Authors: Sarkar, Amitava Hamdeh, Hussein H Davis, Burtron H View PDF File for this Abstract	Center for Applied Energy Research, University of Kentucky, Lexington/KY USA Department of Physics, Wichita State University, Wichita/KS USA Center for Applied Energy Research, University of Kentucky, Lexington/KY USA
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6 O-S6-03-K	Thursday 6/21/2007 11:00 AM Room: 6 <i>Keynote</i> <i>Presentation</i>	<i>Novel Methanation Catalysts Discovered by Computational Screening</i> Authors: Hviid Christensen, Claus Frey, Anne M Kustov, Arkady L Bligaard, Thomas Andersson, Martin P Nørskov, Jens K Larsen, Kasper E Sehested, Jens View PDF File for this Abstract	DTU, Lyngby Denmark DTU, Lyngby Denmark DTU, Lyngby Denmark DTU, Lyngby Denmark DTU, Lyngby Denmark Haldor Topsøe, Lyngby Denmark Haldor Topsøe, Lyngby Denmark
6 O-S6-04	Thursday 6/21/2007 1:30 PM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Enhanced Fischer-Tropsch Synthesis Using Transition Metal Modified Iron Catalysts</i> Authors: Lohitharn, Nattaporn Lotero, Edgar Goodwin, James G., Jr. View PDF File for this Abstract	Clemson University, Clemson/SC USA Clemson University, Clemson/SC USA Clemson University, Clemson/SC USA
6 O-S6-05	Thursday 6/21/2007 2:00 PM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Fischer-Tropsch Synthesis Catalysis: Low-Temperature Fe Catalysts and the Mechanism for CO Dissociation on Fe and Co</i> Authors: Ojeda, Manuel Ishikawa, Akio Nabar, Rahul Nilekar, Anand U Mavrikakis, Manos Iglesia, Enrique View PDF File for this Abstract	University of California, Berkeley, CA USA University of California, Berkeley, CA USA University of Wisconsin, Madison, WI USA University of Wisconsin, Madison, WI USA University of Wisconsin, Madison, WI USA University of California, Berkeley, CA USA
6 O-S6-06	Thursday 6/21/2007 3:00 PM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Effects of Manganese Oxide Promoter on the CO and H2 Adsorption Properties of Titania-supported Cobalt Fischer-Tropsch Catalysts</i> Authors: Weckhuysen, Bert M View PDF File for this Abstract	Utrecht University, Utrecht the Netherlands
6 O-S6-07	Thursday 6/21/2007 3:30 PM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Comprehensive analysis of FT product with GCxGC</i> Authors: Janse van Vuuren, Matthys Bekker, Riaan Grobler, Thelma View PDF File for this Abstract	Sasol Technology R&D (Pty) ltd., Sasolburg South Africa Sasol Technology R&D (Pty) ltd., Sasolburg South Africa Sasol Technology R&D (Pty) ltd., Sasolburg South Africa
6 O-S6-08	Thursday 6/21/2007 4:00 PM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Natural gas conversion from first principles</i> Authors: Abild-Pedersen, Frank View PDF File for this Abstract	CAMD, DTU, 2800 Kgs. Lyngby Denmark
6 O-S6-09	Thursday 6/21/2007 4:30 PM Room: 6 <i>Oral</i> <i>Presentation</i>	<i>Synthesis of Ethanol, DME and Hydrocarbon Fuels from Biomass Derived Syngas: Catalysts and Microchannel Reactor</i> Authors: Hu, Jianli Wang, Yong Cao, Chunshe	Pacific Northwest National Lab, Richland, WA, USA Pacific Northwest National Lab, Richland, WA, USA ExxonMobil, Baytown, TX, USA

Elliott, Douglas C. Pacific Northwest National Lab, Richland, WA, USA
 Stevens, Don J. Pacific Northwest National Lab, Richland, WA, USA
 White, James F. Pacific Northwest National Lab, Richland, WA, USA

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6
O-S6-10 Thursday 6/21/2007 5:00 PM
Room: 7
Oral Presentation

Substitute Natural Gas. Methanation Revisited
Authors:
 Rostrup-Nielsen, Jens R Haldor Topsøe A/S, Dk -2800, Kgs Lyngby Denmark
 Sehested, Jens Haldor Topsøe A/S, Dk -2800, Kgs Lyngby Denmark
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7 - Hydroprocessing - [Back to top](#)

7
O-S7-01 Thursday 6/21/2007 1:30 PM
Room: 1
Oral Presentation

Structural Insights Into the Poisoning of Metal Sulfide Hydrotreating Catalysts Through the Use of Electron Tomography
Authors:
 Moreland, Andrew C Albemarle Catalysts LP, Houston, TX USA
 de Jong, Krijn P Utrecht University, Utrecht The Netherlands
 Eijssbouts, Sonja Albemarle Catalysts BV, Amsterdam The Netherlands
 Vogt, Eelco T Albemarle Catalysts BV, Amsterdam The Netherlands
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7
O-S7-02 Thursday 6/21/2007 2:00 PM
Room: 1
Oral Presentation

New Approaches to the Synthesis of Highly HDS Active Silica-Supported Nickel Phosphide Catalysts
Authors:
 Loboué, Hermione IRCELYON, Villeurbanne France
 Berhault, Gilles D IRCELYON, Villeurbanne France
 Geantet, Christophe IRCELYON, Villeurbanne France
 Lafond, Alain IMN, Nantes France
 Guillot-Deudon, Catherine IMN, Nantes France
 Popa, Aurelian F IMN, Nantes France
 Cseri, Tivadar IFP-Lyon, Vernaison France
[View PDF File for this Abstract](#)

7
O-S7-03 Thursday 6/21/2007 3:00 PM
Room: 1
Oral Presentation

Nickel-rich Bimetallic Phosphide Hydrotreating Catalysts
Authors:
 Bussell, Mark E Western Washington University, Bellingham, WA USA
 Burns, Autumn W Western Washington University, Bellingham, WA USA
 Gaudette, Amy F Western Washington University, Bellingham, WA USA
 Saunders, Rachel M Western Washington University, Bellingham, WA USA
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7
O-S7-04 Thursday 6/21/2007 3:30 PM
Room: 1
Oral Presentation

Chemistry and Kinetics of Gasoline Sulfur Reduction
Authors:
 Cook, Bruce R ExxonMobil Research and Engineering, Annandale/New Jersey USA
 McConnachie, Jonathan ExxonMobil Research and Engineering, Annandale, New Jersey USA
 Halbert, Thomas R ExxonMobil Research and Engineering, Annandale, New Jersey USA
 Greeley, John P ExxonMobil Research and Engineering, Annandale, New Jersey USA
 Ernst, Richard H ExxonMobil Research and Engineering, Annandale, New Jersey USA
 Brignac, Garland B ExxonMobil Research and Engineering, Annandale, New Jersey USA
 Demmin, Richard A ExxonMobil Research and Engineering, Annandale, New Jersey USA
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7
O-S7-05-K **Thursday 6/21/2007 4:00 PM**
Room: 1
Keynote Presentation

Kinetics of the HDS of 4,6-dimethyldibenzothiophene and its hydrogenated intermediates over sulfided Mo/Al₂O₃ and NiMo/Al₂O₃
Authors:
 Prins, Roel ETH, Zurich Switzerland
 Wang, Anjie Dalian University Technology, Dalian China
 Li, Xiang Dalina University Technology, Dalian China
 Egorova, Marina ETH, Zurich Switzerland
[View PDF File for this Abstract](#)

7 O-S7-06	Friday 6/22/2007 10:00 AM Room: 6 <i>Oral Presentation</i>	Testing monolithic catalysts in hydrodesulfurization Authors: Makkee, Michiel Tsou, Joana Carnerio, Joana Berndsen, Joost Kreutzer, Michiel T View PDF File for this Abstract	TU Delft, Delft Netherlands TU Delft, Delft Netherlands TU Delft, Delft Netherlands TU Delft, Delft Netherlands TU Delft, Delft Netherlands
7 O-S7-07	Friday 6/22/2007 10:30 AM Room: 6 <i>Oral Presentation</i>	New NiMo/ZrO₂-SBA-15 catalysts highly active in simultaneous hydrodesulfurization of DBT and 4,6-DMDBT Authors: Gutierrez, Oliver Y Soriano, Alejandro Valencia, Diego Fuentes, Gustavo A Klimova, Tatiana B View PDF File for this Abstract	UNAM, Mexico Mexico UNAM, Mexico Mexico UNAM, Mexico Mexico UAM-I, Mexico Mexico UNAM, Mexico Mexico
7 O-S7-08	Friday 6/22/2007 11:00 AM Room: 6 <i>Oral Presentation</i>	Influence of the preparation method on the hydrodesulfurization activity of MoS₂/Al₂O₃ extrudates: A Raman micro-spectroscopy study on the genesis of the active phase Authors: Weckhuysen, Bert M Bergwerff, Jaap A. Visser, Tom de Jong, Krijn P. View PDF File for this Abstract	Utrecht University, Utrecht the Netherlands Utrecht University, Utrecht the Netherlands Utrecht University, Utrecht the Netherlands Utrecht University, Utrecht the Netherlands
7 O-S7-09	Friday 6/22/2007 11:30 AM Room: 6 <i>Oral Presentation</i>	Density-functional theory (DFT) modeling of arsenic deactivation of NiMoS using representative organoarsenic compounds Authors: Yang, Shaofeng Adjaye, John Nelson, Alan E View PDF File for this Abstract	University of Alberta, Edmonton/Alberta Canada Syncrude Canada Ltd., Edmonton/Alberta Canada University of Alberta, Edmonton/Alberta Canada
8 - Heavy Feed Conversion - Back to top			
8 O-S8-01	Monday 6/18/2007 10:00 AM Room: 6 <i>Oral Presentation</i>	Characterization of Ni-olivine materials as tar removal catalysts for biomass gasifiers Authors: Kuhn, John N Zhao, Zhongkui Ozkan, Umit S Felix, Larry G Slimane, Rachid B View PDF File for this Abstract	The Ohio State University, Columbus, Ohio USA The Ohio State University, Columbus, Ohio USA The Ohio State University, Columbus, Ohio USA Gas Technology Institute, Birmingham, Alabama USA Gas Technology Institute, Des Plaines, Illinois USA
8 O-S8-02	Monday 6/18/2007 10:30 AM Room: 6 <i>Oral Presentation</i>	Adsorption Kinetics Studies Of Heavy Hydrocarbons Over Adsorbent and Catalysts Authors: Lopez Linares, Francisco Spencer, Ronald J Sosa-Stull, Clementina Pereira-Almao, Pedro Carbognani, Lante View PDF File for this Abstract	Schulich School of Engineering, AICISE, University of Calgary, Calgary/Alberta Canada Dept Geology & Geophysics, University of Calgary, Calgary/Alberta Canada Schulich School of Engineering, AICISE, University of Calgary, Calgary/Alberta Canada Schulich School of Engineering, AICISE, University of Calgary, Calgary/Alberta Canada Schulich School of Engineering, AICISE, University of Calgary, Calgary/Alberta Canada
8 O-S8-03	Monday 6/18/2007 11:00 AM Room: 6	Development of a highly selective Ir/WO_x/ZrO₂ ring opening catalyst Authors: Lecarpentier, Sébastien van Gestel, Jacob Thomas, Karine	University, Caen France University, Caen France University, Caen France

Oral
Presentation

Houalla, Marwan
Gilson, Jean-Pierre

University, Caen France
University, Caen France

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8
O-S8-04

Monday
6/18/2007
11:30 AM
Room: 6

"Development of High-Accessibility, Sinter-Resistant Fluid Cracking Catalysts"

Authors:

Rainer, Darrell R

Albemarle, Pasadena, TX US

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Oral
Presentation

8
O-S8-05

Monday
6/18/2007
1:30 PM
Room: 6

TiO₂-Al₂O₃ FCC Traps: Characterization and V Mobility Testing

Authors:

Morales-Armenta, Rosario

Universidad Autónoma de San Luis Potosí, San Luis Potosí/SLP MEXICO

Handy, Brent E

Universidad Autónoma de San Luis Potosí, San Luis Potosí/SLP MEXICO

Cárdenas-Galindo, María-Guadalupe

Universidad Autónoma de San Luis Potosí, San Luis Potosí/SLP MEXICO

Pedraza, Francisco

Instituto Mexicano del Petróleo, México DF MEXICO

Hernández-Beltrán, Francisco

Instituto Mexicano del Petróleo, México DF MEXICO

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Oral
Presentation

8
O-S8-06

Monday
6/18/2007
2:00 PM
Room: 6

Quantifying the relative importance of the elementary steps involved in the cracking of (cyclo)alkanes via a microkinetic analysis

Authors:

Quintana-Solorzano, Roberto

Mexican Petroleum Institute, Mexico City Mexico

Thybaut, Joris W

Ghent University, Ghent Belgium

Marin, Guy B

Ghent University, Ghent Belgium

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Oral
Presentation

8
O-S8-07

Monday
6/18/2007
3:00 PM
Room: 6

Heat balanced simulation in Short Contact Time Riser Test

Authors:

Baas, Martin

Albemarle, Amsterdam The Netherlands

Foskett, Stuart

Albemarle, Singapore Rep. Singapore

Vreugdenhil, Wim

Albemarle, Amsterdam The Netherlands

Yung, King Yen

Albemarle, Amersfoort The Netherlands

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Oral
Presentation

8
O-S8-08

Monday
6/18/2007
3:30 PM
Room: 6

Cracking of rapeseed vegetable oil under realistic FCC conditions

Authors:

Dupain, Xander

TU Delft, Delft Netherlands

Makkee, Michiel

TU Delft, Delft Netherlands

Costa, Daniel

TU Delft, Delft Netherlands

Schaverien, Colin

Shell Global Solutions, Amsterdam Netherlands

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Oral
Presentation

8
O-S8-09-K

Monday
6/18/2007
4:00 PM
Room: 6

Towards a new generation of FCC NO_x additives

Authors:

Stockwell, David M

BASF Catalysts LLC , Iselin, NJ 08830 USA

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Keynote
Presentation

9 - Catalysis for Chemicals and Specialty Products - [Back to top](#)

9
O-S9-01

Tuesday
6/19/2007
10:00 AM
Room: 3

Oxidative Dehydrogenation of Ethanol to Acetaldehyde on Supported Vanadium Oxide

Authors:

Kilos, Beata A

University of California, Berkeley, CA USA

Bell, Alexis T

University of California, Berkeley, CA USA

Iglesia, Enrique

University of California, Berkeley, CA USA

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Oral
Presentation

-
- 9
O-S9-02 Tuesday
6/19/2007
10:30 AM
Room: 3
- A Theoretical Investigation of the Selective Oxidation of Methanol to Formaldehyde on Isolated Vanadate Species Supported on Silica*
- Authors:**
Goodrow, Anthony University of California, Berkeley, CA USA
Bell, Alexis T University of California, Berkeley, CA USA
- [View PDF File for this Abstract](#)
- Oral Presentation*
-
- 9
O-S9-03 Tuesday
6/19/2007
11:00 AM
Room: 3
- Propane Oxidative Dehydrogenation on Vanadium Oxide Molecules and Supported Clusters: A Density Functional Study*
- Authors:**
Curtiss, Larry A Argonne National Laboratory, Argonne, IL USA
Redfern, Paul C. Argonne National Laboratory, Argonne, IL USA
Zapol, Peter Argonne National Laboratory, Argonne, IL USA
Sternberg, Michael Argonne National Laboratory, Argonne, IL USA
Zygmunt, Stan A. Valparaiso University, Valparaiso, IN, USA
Friedhoff, Jared W. Valparaiso University, Valparaiso, IN, USA
- [View PDF File for this Abstract](#)
- Oral Presentation*
-
- 9
O-S9-04 Tuesday
6/19/2007
11:30 AM
Room: 3
- Oxidative Dehydrogenation of Propane by Supported Transition Metal Oxide Species*
- Authors:**
Sauer, Joachim Humboldt University, Berlin Germany
Rozanska, Xavier Humboldt University, Berlin
- [View PDF File for this Abstract](#)
- Oral Presentation*
-
- 9
O-S9-05 Tuesday
6/19/2007
1:30 PM
Room: 3
- Is There a Relationship Between the M=O Bond Strength of Bulk Mixed Metal Oxides and Catalytic Activity?*
- Authors:**
Routray, Kamalakanta Lehigh University, Bethlehem/PA US
Briand, Laura E Centro de Investigacion y Desarrollo en Ciencias Aplicadas, La Plata Argentina
Wachs, Israel E Lehigh University, Bethlehem/PA US
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- Oral Presentation*
-
- 9
O-S9-06 Tuesday
6/19/2007
2:00 PM
Room: 3
- Towards an understanding of the active site of VPO catalysts using nanostructured VxOy model catalysts*
- Authors:**
Willinger, Marc Fritz Haber Institute, Berlin Germany
Niederberger, Markus Max Planck Institute of Colloids and Interfaces, Golm Germany
Hess, Christian Fritz Haber Institute, Berlin Germany
Schlögl, Robert Fritz Haber Institute, Berlin Germany
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- Oral Presentation*
-
- 9
O-S9-07-K **Tuesday**
6/19/2007
3:00 PM
Room: 3
- The Synthesis of Acetic Acid from Ethane, Ethene, or Ethanol on Mo-V-Nb Oxides*
- Authors:**
Li, Xeubing University of California, Berkeley, CA USA
Iglesia, Enrique University of California, Berkeley, CA USA
- [View PDF File for this Abstract](#)
- Keynote Presentation*
-
- 9
O-S9-08 Tuesday
6/19/2007
4:00 PM
Room: 3
- Adsorption and epoxide ring-opening of 1-epoxy-3-butene on Pt(111): Implications for selective catalysis of bifunctional molecules*
- Authors:**
Loh, Andrea University of Colorado, Boulder, CO USA
Medlin, J. Will University of Colorado, Boulder, CO USA
- [View PDF File for this Abstract](#)
- Oral Presentation*
-
- 9
O-S9-09 Tuesday
6/19/2007
4:30 PM
- Reactions of Complex Epoxides on Silver Surfaces*
- Authors:**

Room: 3 Lukaski, Adrienne C University of Delaware, Newark United States
 Barteau, Mark A. University of Delaware, Newark, DE, USA
Oral Presentation [View PDF File for this Abstract](#)

9 O-S9-10 Wednesday 6/20/2007 10:00 AM Room: 3
Origin of the superior selectivity of gold nanoparticles for hydrogenation of triple bonds in alkyne-alkene mixtures
Authors:
 Segura, Yolanda ICIQ, Tarragona Spain
 López, Nuria ICIQ, Tarragona Spain
 Pérez-Ramírez, Javier ICIQ, Tarragona Spain
Oral Presentation [View PDF File for this Abstract](#)

9 O-S9-11 Wednesday 6/20/2007 10:30 AM Room: 3
Gold based catalysts performances in selective hydrogenation of butadiene in an excess of propene
Authors:
 Louis, Catherine Université Pierre et Marie Curie, Paris France
 Hugon, Antoine Université Pierre et Marie Curie, Paris France
 Delannoy, Laurent Université Pierre et Marie Curie, Paris France
Oral Presentation [View PDF File for this Abstract](#)

9 O-S9-12 Wednesday 6/20/2007 11:00 AM Room: 3
Gold Catalysis: New Routes to Key Commodity Chemicals
Authors:
 Christensen, Claus H Technical University of Denmark, Lyngby Denmark
 Jørgensen, Betina Technical University of Denmark, Kgs. Lyngby Denmark
 Madsen, Robert Technical University of Denmark, Kgs. Lyngby Denmark
 Taarning, Esben Technical University of Denmark, Kgs. Lyngby Denmark
 Egeblad, Kresten Technical University of Denmark, Kgs. Lyngby Denmark
 Rass-Hansen, Jeppe Technical University of Denmark, Kgs. Lyngby Denmark
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9 O-S9-13 Wednesday 6/20/2007 11:30 AM Room: 3
The Kinetics of the Propene Epoxidation and Water Formation over Gold-Titania Catalysts
Authors:
 Nijhuis, Alexander Eindhoven University of Technology, Eindhoven The Netherlands
 Weckhuysen, Bert M Utrecht University, Utrecht The Netherlands
Oral Presentation [View PDF File for this Abstract](#)

9 O-S9-14 Wednesday 6/20/2007 1:30 PM Room: 3
Reductive Amination in a Pharmaceutical Process: Challenges from Catalyst Deactivation
Authors:
 Allgeier, Alan M Amgen Inc., Thousand Oaks, CA USA
 Andersen, Denise Amgen Inc., Thousand Oaks, CA USA
 Baum, Jean Amgen Inc., Thousand Oaks, CA USA
 Bunel, Emilio Amgen Inc., Thousand Oaks, CA USA
 Larsen, Robert Amgen Inc., Thousand Oaks, CA USA
 Liu, Pingli Amgen Inc., Thousand Oaks, CA USA
 Storz, Thomas Amgen Inc., Thousand Oaks, CA USA
 Tedrow, Jason Amgen Inc., Thousand Oaks, CA USA
Oral Presentation [View PDF File for this Abstract](#)

9 O-S9-15 Wednesday 6/20/2007 2:00 PM Room: 3
Promoted Cobalt Supported Over Carbon Nanotubes For the Cinnamaldehyde Hydrogenation
Authors:
 Clacens, Jean-Marc Laboratoire de Catalyse en Chimie Organique / CNRS-University of Poitiers, Poitiers France
 Derouault, Annie Laboratoire de Catalyse en Chimie Organique / CNRS-University of Poitiers, Poitiers France
 Barrault, Joël Laboratoire de Catalyse en Chimie Organique / CNRS-University of Poitiers, Poitiers France
Oral Presentation [View PDF File for this Abstract](#)

9 O-S9-16 Wednesday 6/20/2007 3:00 PM Room: 3
Improved Understanding and Rates in the Dehydrogenation of Tetrahydrocarbazole to Carbazole
Authors:
 Hindle, Kenneth T Queen's University Belfast, Belfast United Kingdom

- | | | |
|----------------|---|---|
| 9
O-S9-23 | Thursday
6/21/2007
11:30 AM
Room: 3

<i>Oral
Presentation</i> | <i>Aromatization of methanol and methylation of benzene over Mo2C/ZSM-5 catalysts</i>
Authors:
Solymosi, Frigyes Institute of Solid State and Radiochemistry University of Szeged, Szeged Hungary
Barthos, R. Institute of Solid State and Radiochemistry University of Szeged, Szeged Hungary
Széchenyi, A. Institute of Solid State and Radiochemistry University of Szeged, Szeged Hungary
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| 9
O-S9-24 | Thursday
6/21/2007
1:30 PM
Room: 3

<i>Oral
Presentation</i> | <i>Determination of Solution Phase Heck Catalysis Leached from Immobilized Palladium on Propylthiol-Modified Mesoporous Silica</i>
Authors:
Richardson, John M Georgia Institute of Technology, Atlanta, GA USA
Jones, Christopher W Georgia Institute of Technology, Atlanta, GA USA
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| <hr/> | | |
| 9
O-S9-25 | Thursday
6/21/2007
2:00 PM
Room: 3

<i>Oral
Presentation</i> | <i>Activity and selectivity control in the synthesis of alicyclic amines.</i>
Authors:
Jackson, S D University of Glasgow, Glasgow, Scotland UK
Graham, Kristoffer University of Glasgow, Glasgow, Scotland UK
Hindle, Kenneth T University of Glasgow, Glasgow, Scotland UK
Williams, David J University of Glasgow, Glasgow, Scotland UK
Wuttke, Stefan University of Glasgow, Glasgow, Scotland UK
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| 9
O-S9-26-K | Thursday
6/21/2007
3:00 PM
Room: 3

<i>Keynote
Presentation</i> | <i>Influence of Solvent and the Metal on the Selective Hydrogenation of Oxygenate Intermediates</i>
Authors:
Sinha, Nishant University of Virginia, Charlottesville, Virginia USA
Neurock, Matthew University of Virginia, Charlottesville, Virginia USA
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| 9
O-S9-27 | Thursday
6/21/2007
4:00 PM
Room: 3

<i>Oral
Presentation</i> | <i>CH2Cl2 as a selective modifying agent to create a new family of highly reactive Cr polymerization sites</i>
Authors:
Weckhuysen, Bert M Utrecht University, Utrecht the Netherlands
Nemu, Cristina N. Utrecht University, Utrecht the Netherlands
Grosso, Elena University of Torino, Torino, Italy
Lamberti, Carlo University of Torino, Torino, Italy
Beale, Andrew M. Utrecht University, Utrecht the Netherlands
Visser, Tom Utrecht University, Utrecht the Netherlands
Zecchina, Adriano University of Torino, Torino, Italy
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| 9
O-S9-28 | Thursday
6/21/2007
4:30 PM
Room: 3

<i>Oral
Presentation</i> | <i>Influence of the Support during Homocoupling of Phenylboronic Acid Catalyzed by Supported Gold and Palladium</i>
Authors:
Palacios, Ana Universidad Autonoma Metropolitana, Iztapalapa D.F. Mexico
Ramírez, Patsy Universidad Autonoma Metropolitana, Iztapalapa D.F. Mexico
López, Maria J Universidad Autonoma Metropolitan, Iztapalapa D.F. Mexico
Guzman, Javier University of Kansas, Lawrence, KS USA
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| 9
O-S9-29 | Friday
6/22/2007
10:00 AM
Room: 3

<i>Oral
Presentation</i> | <i>Lactose oxidation over carbon supported palladium catalysts</i>
Authors:
Murzina, Elena V Abo Akademi University, Turku Finland
Tokarev, Anton V Abo Akademi University, Turku Finland
Plomp, Arie J Utrecht University, Utrecht The Netherlands
Bitter, Johannes H Utrecht University, Utrecht The Netherlands
Simakova, Irina L Institute of Catalysis, Novosibirsk Russia
Murzin, Dmitry Y Abo Akademi University, Turku Finland
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9
O-S9-30 Friday 6/22/2007 10:30 AM
Room: 3
Oral Presentation

Hydrogenation of Amino Acid Mixtures to Amino Alcohols: Renewable Building Blocks for Fine and Specialty Chemicals Production
Authors:
Pimparkar, Ketan P Michigan St. Univ, East Lansing MI USA
Miller, Dennis J Michigan St Univ, East Lansing MI USA
Jackson, James E Michigan St. Univ, East Lansing, MI USA
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9
O-S9-31 Friday 6/22/2007 11:00 AM
Room: 3
Oral Presentation

Production of furan derivatives by dehydration of biomass-derived carbohydrates
Authors:
Dumesic, James A University of Wisconsin, Madison/Wisconsin USA
Román-Leshkov, Yuriy University of Wisconsin, Madison/Wisconsin USA
Chheda, Juben University of Wisconsin, Madison/Wisconsin USA
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9
O-S9-32 Friday 6/22/2007 11:30 AM
Room: 3
Oral Presentation

Conversion of Sorbitol and Glycerol over Supported Transition Metal Catalysts
Authors:
Davis, Robert J University of Virginia, Charlottesville/VA US
Ketchie, William C University of Virginia, Charlottesville / VA US
Maris, Erin P University of Virginia, Charlottesville / VA US
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10 - Homogeneous Catalysis - [Back to top](#)

10
O-S10-01 Wednesday 6/20/2007 10:00 AM
Room: 6
Oral Presentation

An Organic/Inorganic Hybrid Cocatalyst/Support Capable of Activating Metallocenes for the Polymerization of α -Olefins
Authors:
Hicks, Jason C Georgia Institute of Technology, Atlanta/Georgia USA
Mullis, Brooke A Georgia Institute of Technology, Atlanta/Georgia USA
Jones, Christopher W Georgia Institute of Technology, Atlanta/Georgia USA
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10
O-S10-02 Wednesday 6/20/2007 10:30 AM
Room: 6
Oral Presentation

Rh-Catalyzed Oxidative Carbonylation of Toluene to p-Toluic acid
Authors:
Zakzeski, Joseph J University of California, Berkeley, Berkeley/CA USA
Bell, Alexis T University of California, Berkeley, Berkeley/CA USA
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10
O-S10-03 Wednesday 6/20/2007 11:00 AM
Room: 6
Oral Presentation

Overview of catalytic properties of several novel Umicore homogeneous catalysts for metathesis reactions and cross-coupling reactions
Authors:
Briel, Oliver Umicore AG&Co KG, Hanau Germany
Clavier, Hervé ICIQ, Tarragona Spain
Marion, Nicholas ICIQ, Tarragona Spain
Winde, Roland Umicore AG & Co KG, Hanau Germany
Karch, Ralf Umicore AG & Co KG, Hanau Germany
Nolan, Steven P ICIQ, Tarragona Spain
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10
O-S10-04 Wednesday 6/20/2007 11:30 AM
Room: 6
Oral Presentation

Hydroformylation of 1-hexene in presence of sulphur and nitrogen compounds using the binuclear water soluble complex $[Rh(CO)(\mu-Pz)(TPPTS)]_2$
Authors:
Lopez Schulich School of Engineering, University of Calgary, Calgary/Alberta Canada
Linares, Francisco A
Rivera, Sheyla Centro de Investigaciones Químicas, Facultad de Ingeniería, Universidad de Carabobo,, Valencia/Carabobo Venezuela
Baricelli, Pablo J Centro de Investigaciones Químicas, Facultad de Ingeniería, Universidad de Carabobo, , Valencia/Carabobo Venezuela
Lujano , Eduardo Centro de Investigaciones Químicas, Facultad de Ingeniería,Universidad de Carabobo, Valencia/Carabobo Venezuela

Sanchez-
Delgado, Roberto A

Chemistry Department, Brooklyn College CUNY, Brooklyn, NY USA

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10 O-S10-05	Wednesday 6/20/2007 1:30 PM Room: 6 <i>Oral Presentation</i>	<i>Investigation of CO Hydrogenation Mechanisms using Co Carbonyl Catalysts</i> Authors: Meyer, Randall J University of Illinois at Chicago, Chicago/IL USA Rathke, Jerome W Argonne National Laboratory, Argonne/IL USA Klingler, Robert J Argonne National Laboratory, Argonne/IL USA View PDF File for this Abstract
10 O-S10-06	Wednesday 6/20/2007 2:00 PM Room: 6 <i>Oral Presentation</i>	<i>Design and Preparation of a Novel Tetrphosphine Ligand for Use in the Hydroformylation of 1-Alkenes</i> Authors: Monteil, Alexandre R Louisiana State University, Baton Rouge, LA USA Stanley, George G Louisiana State University, Baton Rouge, LA USA View PDF File for this Abstract
10 O-S10-07	Wednesday 6/20/2007 3:00 PM Room: 6 <i>Oral Presentation</i>	<i>Asymmetric hydrogenation routes to beta-amino-aldehydes</i> Authors: Meek, Graham A Dowpharma, Cambridge UK Boulton, Lee T Dowpharma, Cambridge UK Lennon, Ian C Dowpharma, Cambridge UK View PDF File for this Abstract
10 O-S10-08	Wednesday 6/20/2007 3:30 PM Room: 6 <i>Oral Presentation</i>	<i>Homogeneous Olefin Hydroformylation by Transition Metal Complexes in CO₂-Expanded Media: Solvent Effects and Kinetics</i> Authors: Fang, Jing University of Kansas, Lawrence, KS USA Guha, Debangshu Washington University in St. Louis, St. Louis, MO USA Tunge, Jon A University of Kansas, Lawrence, KS USA Dudukovic, Milorad P Washington University in St. Louis, St. Louis, MO USA Ramachandran, P. A Washington University in St. Louis, St. Louis, MO USA Subramaniam, Bala University of Kansas, Lawrence, KS USA View PDF File for this Abstract
10 O-S10-09-K	Wednesday 6/20/2007 4:00 PM Room: 6 <i>Keynote Presentation</i>	<i>Increased Reaction Rates and Enantioselectivity of Asymmetric Reactions in Ionic Liquids</i> Authors: Doherty, S D Newcastle University, Newcastle UK Goodrich, P Queen's University, Belfast UK Hardacre, C Queen's University, Belfast UK Knight, J G Newcastle University, Newcastle UK Nguyen, M G Newcastle University, Newcastle UK Paun, C University of Bucharest, Bucharest Romania Pârvulescu, V I University of Bucharest, Bucharest Romania View PDF File for this Abstract
11 - Acid/Base Catalysis - Back to top		
11 O-S11-01	Thursday 6/21/2007 10:00 AM Room: 5 <i>Oral Presentation</i>	<i>Kinetics, Mechanism and Site Requirements for Dimethyl Ether Carbonylation on Acidic Zeolites</i> Authors: Bhan, Aditya University of California, Berkeley USA Cheung, Patricia University of California, Berkeley USA Allian, Ayman University of California, Berkeley USA Sunley, Glenn BP Chemicals, Saltend, Hull HU128DS UK Law, David BP Chemicals, Saltend, Hull HU128DS UK Iglesia, Enrique University of California, Berkeley USA View PDF File for this Abstract

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|----------------|--|--|--|
| 11
O-S11-02 | Thursday
6/21/2007
10:30 AM
Room: 5

<i>Oral
Presentation</i> | <i>Conversion of Methanol over Solid Acidic WO₃/ZrO₂ Catalysts: Molecular/Electronic Structure-Activity Relationships</i>
Authors:
Ross, Elizabeth I
Kim, Taejin
Knowles, William V
Wong, Michael S
Wachs, Israel E
View PDF File for this Abstract | Lehigh University, Bethlehem, PA USA
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Rice University, Houston, TX USA
Lehigh University, Bethlehem, PA USA |
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| 11
O-S11-03 | Thursday
6/21/2007
11:00 AM
Room: 5

<i>Oral
Presentation</i> | <i>Gas-phase reduction of unsaturated ketones by hydrogen transfer reactions. A catalytic and spectroscopic study</i>
Authors:
Braun, Fernando
Acosta, Ariel
Apesteguía, Carlos R
Di Cosimo, Isabel
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| 11
O-S11-04 | Thursday
6/21/2007
11:30 AM
Room: 5

<i>Oral
Presentation</i> | <i>Selective Friedel-Crafts Cyclialkylation Reactions Over Solid Acid Catalysts</i>
Authors:
Sengupta, Sourav K
Dumas, Donald J
Corbin, David R
Walls, Dennis J
Dindi, Hasan
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DuPont, Wilmington/DE U.S.A.
DuPont, Wilmington/DE U.S.A. |
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| 11
O-S11-05 | Thursday
6/21/2007
1:30 PM
Room: 5

<i>Oral
Presentation</i> | <i>Synthesis of Precursors to Ethylene Glycol from Formaldehyde and Methyl Formate</i>
Authors:
Celik, Fuat E
Lawrence, Henry
Bell, Alexis T
View PDF File for this Abstract | UC Berkeley, Berkeley, CA USA
UC Berkeley, Berkeley, CA USA
UC Berkeley, Berkeley, CA USA |
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| 11
O-S11-06 | Thursday
6/21/2007
2:00 PM
Room: 5

<i>Oral
Presentation</i> | <i>Theoretical Insights into Alkylation and Acid Catalysis over Polyoxometalates</i>
Authors:
Neurock, Matthew
Janik, Michael J
Davis, Robert J
View PDF File for this Abstract | University of Virginia, Charlottesville, VA U.S.
University of Virginia, Charlottesville, VA U.S.
University of Virginia, Charlottesville, VA U.S. |
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| 11
O-S11-07 | Thursday
6/21/2007
3:00 PM
Room: 5

<i>Oral
Presentation</i> | <i>Alkane C-H Bond Activation in Solid Acids</i>
Authors:
White, Jeffery L
Truitt, Matthew
Whitten, Jerry
Sremanik, Laura
View PDF File for this Abstract | Oklahoma State University, Stillwater, OK
North Carolina State University, Raleigh, NC
North Carolina State University, Raleigh, NC
North Carolina State University, Raleigh, NC |
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| 11
O-S11-08 | Thursday
6/21/2007
3:30 PM
Room: 5

<i>Oral
Presentation</i> | <i>Catalytic Naphtha Cracking</i>
Authors:
Abrevaya, Hayim
Abdo, Suheil
View PDF File for this Abstract | UOP Research, Des Plaines, Illinois
UOP Research, Des Plaines, Illinois |
| <hr/> | | | |
| 11
O-S11-09 | Thursday
6/21/2007
4:00 PM | <i>Esterification of palmitic acid in sunflower oil using solid acid catalysts</i>
Authors:
Ni, Jun | Queen's University Belfast, Northern Ireland, UK |

Room: 5 Meunier, Frederic Queen's University Belfast, Northern Ireland, UK
[View PDF File for this Abstract](#)
 Oral
 Presentation

11 O-S11-10 Thursday 6/21/2007 4:30 PM Room: 5
Alkane activation over lanthanum exchanged zeolite X
Authors:
 Sievers, Carsten TU München, Garching Germany
 Onda, Ayumu TU München, Garching Germany
 Guzman, Alexander TU München, Garching Germany
 Olindo, Roberta TU München, Garching Germany
 Lercher, Johannes A TU München, Garching Germany
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 Oral
 Presentation

11 O-S11-11 Friday 6/22/2007 10:00 AM Room: 5
Triglyceride Transesterification using Solid Base Catalysts
Authors:
 Lotero, Edgar Clemson University, South Carolina US
 Liu, Yijun Clemson University, SC US
 Goodwin Jr, James G Clemson, University
[View PDF File for this Abstract](#)
 Oral
 Presentation

11 O-S11-12 Friday 6/22/2007 10:30 AM Room: 5
Nature of hydroxyl groups acting as basic sites on MgO surfaces
Authors:
 Chizallet, Céline Université Paris VI, Paris France
 Bonhomme, Christian Université Paris VI, Paris France
 Costentin, Guylène Université Paris VI, Paris France
 Delbecq, Françoise ENS, Lyon France
 Lauron-Pernot, Hélène Université Paris VI, Paris France
 Maquet, Jocelyne Université Paris VI, Paris France
 Sautet, Philippe ENS, Lyon France
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11 O-S11-13 Friday 6/22/2007 11:00 AM Room: 5
Tuning the activity of nitrogen-containing carbon nanotubes by controlled nitrogen incorporation
Authors:
 Bitter, Johannes H Utrecht University, Utrecht The Netherlands
 de Jong, Krijn P Utrecht University, Utrecht The Netherlands
 Dommele, Stefan Utrecht University, Utrecht The Netherlands
[View PDF File for this Abstract](#)
 Oral
 Presentation

11 O-S11-14 Friday 6/22/2007 11:30 AM Room: 5
Modeling Acid/Base Chemistry in Zeolites: Structure and Dynamics Calculations for Comparison with NMR
Authors:
 Fermann, Justin T UMass, Amherst USA
 Viswanathan, Usha UMass, Amherst, MA USA
 Toy, Leanna UMass, Amherst, MA USA
 Auerbach, Scott M UMass, Amherst, MA USA
 Hammond, Karl UMass, Amherst, MA USA
 Vreven, Thom Gaussian, Inc, Wallingford, CT USA
 Frisch, Michael J Gaussian, Inc., Wallingford, CT USA
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12 - Hydrogen and Syngas Generation from Hydrocarbons - [Back to top](#)

12 O-S12-01 Monday 6/18/2007 10:00 AM Room: 4
Hydrogen and Syngas Generation from Hydrocarbons and Applications in Future Global Energy Management
Authors:
 Green, Malcolm L University of Oxford, Oxford UK
 Xiao, Tiancun University of Oxford, Oxford UK
[View PDF File for this Abstract](#)
 Oral
 Presentation

12 O-S12-02	Monday 6/18/2007 10:30 AM Room: 4 <i>Oral Presentation</i>	<i>Ni-W-C and Co-W-C as Alternative Catalysts for Dry Reforming and Steam Reforming of Methane</i> Authors: Dadyburjor, Dady B Kugler, Edwin L Shao, Huifang View PDF File for this Abstract	West Virginia University, Morgantown WV USA West Virginia University, Morgantown WV USA West Virginia University, Morgantown WV USA
12 O-S12-03	Monday 6/18/2007 11:00 AM Room: 4 <i>Oral Presentation</i>	<i>Structure, Dynamics and Reactivity of Group VIII Metal and Oxide Clusters during Reactions of Methane with Oxygen</i> Authors: Chin, Ya-Huei (Cathy) Iglesia, Enrique Li, Mingshi Buda, Corneliu Janik, Michael Neurock, Matthew View PDF File for this Abstract	University of California, Berkeley, CA USA University of California, Berkeley, CA USA University of California, Berkeley, CA USA University of Virginia, Charlottesville, VA USA University of Virginia, Charlottesville, VA USA University of Virginia, Charlottesville, VA USA
12 O-S12-04	Monday 6/18/2007 11:30 AM Room: 4 <i>Oral Presentation</i>	<i>Hydrogen production by methane partial oxidation at moderate temperatures in Rh-impregnated microchannel reactors</i> Authors: Enger, Bjørn C Lødeng, Rune Björgum, Erlend Venvik, Hilde J Pfeifer, Peter Schubert, Klaus Holmen, Anders View PDF File for this Abstract	Norwegian University of Science and Technology, Trondheim Norway SINTEF, Trondheim Norway SINTEF, Trondheim Norway Norwegian University of Science and Technology, Trondheim Norway Forschungszentrum Karlsruhe GmbH, Karlsruhe Germany Forschungszentrum Karlsruhe GmbH, Karlsruhe Germany Norwegian University of Science and Technology, Trondheim Norway
12 O-S12-05	Monday 6/18/2007 1:30 PM Room: 4 <i>Oral Presentation</i>	<i>Syngas Generation from Partial Oxidation of CH₄ over Rh/Al₂O₃: an In Situ IR/MS Study</i> Authors: Singh, Rahul Chuang, Steven S.C. View PDF File for this Abstract	University of Akron, Akron/OH USA University of Akron, Akron/OH USA
12 O-S12-06	Monday 6/18/2007 2:00 PM Room: 4 <i>Oral Presentation</i>	<i>Spatially Resolved Species and Temperature Determination during Methane and Propane Partial Oxidation over a Rh-Coated Monolith</i> Authors: Tan, Eric C Choi, Jae-Soon Partridge, William P Fisher, Galen B Kirwan, John E Weissman, Jeffrey G Maxey, Lonnie C View PDF File for this Abstract	Delphi Catalysts, Tulsa/OK USA Oak Ridge National Laboratory, Oak Ridge/TN USA Oak Ridge National Laboratory, Oak Ridge/TN USA Delphi Corporation, Shelby Township/MI USA Delphi Corporation, Shelby Township/MI USA Delphi Corporation, Rochester/NY USA Oak Ridge National Laboratory, Oak Ridge/TN USA
12 O-S12-07	Monday 6/18/2007 3:00 PM Room: 4 <i>Oral Presentation</i>	<i>Combined Reforming of Methane over Supported Ni Catalysts</i> Authors: Roh, Hyun-Seog Koo, Kee Young Jeong, Jin Hyeok Seo, Yu Taek Seo, Dong Joo Seo, Yong-Seog Yoon, Wang Lai Park, Seung Bin View PDF File for this Abstract	Korea Institute of Energy Research, Daejeon S. Korea Korea Advanced Institute of Science and Technology, Daejeon S. Korea Kyungpook National University, Daegu S. Korea Korea Institute of Energy Research, Daejeon S. Korea Korea Institute of Energy Research, Daejeon S. Korea Korea Institute of Energy Research, Daejeon S. Korea Korea Institute of Energy Research, Daejeon S. Korea Korea Advanced Institute of Science and Technology, Daejeon S. Korea

12 O-S12-08	Monday 6/18/2007 3:30 PM Room: 4 <i>Oral Presentation</i>	<i>Dry reforming of methane on Rh/La2O3 and Rh/La2O3-SiO2: The role of lanthanum in the reaction mechanism</i> Authors: Lombardo, Eduardo A Munera, John F. Cornaglia, Laura M. Vargas César, Deborah Schmal, Martin View PDF File for this Abstract	INCAPE, Santa Fe Argentina INCAPE, Santa Fe Argentina INCAPE, Santa Fe Argentina INCAPE, Santa Fe Argentina UFRJ, Rio de Janeiro, Brazil
12 O-S12-09	Monday 6/18/2007 4:00 PM Room: 4 <i>Oral Presentation</i>	<i>Reaction of Carbon Monoxide over Pt/alumina at High Pressure and Temperature: Control of Carbon Deposition.</i> Authors: Jackson, S D Opara, Elaine Fowles, Martin Ingram, Phil View PDF File for this Abstract	University of Glasgow, Glasgow, Scotland UK University of Glasgow, Glasgow, Scotland UK Johnson Matthey, Billingham UK Johnson Matthey, Billingham UK
12 O-S12-10	Monday 6/18/2007 4:30 PM Room: 4 <i>Oral Presentation</i>	<i>Hybrid Experimental/Theoretical Approach aimed at the Development of Carbon Tolerant Catalysts</i> Authors: Nikolla, Eranda Schwank, Johannes Linic, Suljo View PDF File for this Abstract	University of Michigan, Ann Arbor, MI USA University of Michigan, Ann Arbor, MI USA University of Michigan, Ann Arbor, MI USA
12 O-S12-11	Tuesday 6/19/2007 10:00 AM Room: 4 <i>Oral Presentation</i>	<i>Mechanistic Studies of the Steam Reforming of Methanol on Pd/ZnO Catalysts</i> Authors: Jeroro, Eseoghene Vohs, John M View PDF File for this Abstract	University of Pennsylvania, Philadelphia, PA USA University of Pennsylvania, Philadelphia, PA USA
12 O-S12-12	Tuesday 6/19/2007 10:30 AM Room: 4 <i>Oral Presentation</i>	<i>ZnO-Supported Catalysts for the Steam Reforming of Alcohols</i> Authors: Conant, Travis Karim, Ayman Datye, Abhaya View PDF File for this Abstract	University of New Mexico, Albuquerque, NM U.S.A. University of New Mexico, Albuquerque, NM U.S.A. University of New Mexico, Albuquerque, NM U.S.A.
12 O-S12-13-K	Tuesday 6/19/2007 11:00 AM Room: 4 <i>Keynote Presentation</i>	<i>Theoretical Insights into Syngas Catalysis</i> Authors: Norskov, J. K. Abild-Pedersen, F. Greeley, J. Sehested, J. Helveg, S. Rostrup-Nielsen, J. View PDF File for this Abstract	Technical University of Denmark, Denmark Technical University of Denmark, Denmark Technical University of Denmark, Denmark Haldor Topsøe Research Laboratories, Denmark Haldor Topsøe Research Laboratories, Denmark Haldor Topsøe Research Laboratories, Denmark
12 O-S12-14	Tuesday 6/19/2007 1:30 PM Room: 4 <i>Oral Presentation</i>	<i>Hydrogen production by aqueous-phase reforming of glycerol on supported metal catalysts</i> Authors: Boonyanuwat, Aonsurang Jentys, Andreas Lercher, Johannes A View PDF File for this Abstract	TU München, Garching Germany TU München, Garching Germany TU München, Garching Germany
12 O-S12-15	Tuesday 6/19/2007	<i>Hydrogen Production from Aqueous Phase Reforming of Sorbitol and Related Oxygenated Hydrocarbons</i> Authors:	

2:00 PM
Room: 4

Oral Presentation

Xia, Gordon Pacific Northwest National Laboratory, Richland, WA USA
Cao, James Pacific Northwest National Laboratory, Richland, WA USA
Platon, Alex Pacific Northwest National Laboratory, Richland, WA USA
King, David Pacific Northwest National Laboratory, Richland, WA USA
Wang, Yong Pacific Northwest National Laboratory, Richland, WA USA
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12
O-S12-16 Tuesday 6/19/2007 3:00 PM
Room: 4

Oral Presentation

Reforming of Oxygenates for H₂ Production on 3d-Pt(111) Bimetallic Surfaces
Authors:
Skoplyak, Orest University of Delaware, Newark, DE
Barteau, Mark A University of Delaware, Newark, DE
Chen, Jingguang G University of Delaware, Newark, DE
[View PDF File for this Abstract](#)

12
O-S12-17 Tuesday 6/19/2007 3:30 PM
Room: 4

Oral Presentation

Hydrogen Production from Bio-Ethanol Steam Reforming over Co-based Catalysts
Authors:
Song, Hua The Ohio State University, Columbus/Ohio U.S.A.
Zhang, Lingzhi The Ohio State University, Columbus/Ohio U.S.A.
Ozkan, Umit S The Ohio State University, Columbus/Ohio U.S.A.
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12
O-S12-18 Tuesday 6/19/2007 4:00 PM
Room: 4

Oral Presentation

Hydrogen Production from raw bioethanol over a Rh/MgAl₂O₄ catalyst. Impact of impurities
Authors:
Le Valant, Anthony Laboratoire de Catalyse en Chimie organique, Poitiers France
Bion, Nicolas Laboratoire de Catalyse en Chimie organique, Poitiers France
Epron, Florence Laboratoire de Catalyse en Chimie organique, Poitiers France
Duprez, Daniel Laboratoire de Catalyse en Chimie organique, Poitiers France
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12
O-S12-19 Tuesday 6/19/2007 4:30 PM
Room: 4

Oral Presentation

Partial oxidation, steam reforming and autothermal reforming of ethanol over Pt/Ce_{0.75}Zr_{0.25}O₂ catalyst
Authors:
de Lima, Sania M Instituto Nacional de Tecnologia, Rio de Janeiro Brazil
da Silva, Adriana M Instituto Nacional de Tecnologia, Rio de Janeiro Brazil
Mattos, Lisiane V Instituto Nacional de Tecnologia, Rio de Janeiro Brazil
Noronha, Fábio B Instituto Nacional de Tecnologia, Rio de Janeiro Brazil
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12
O-S12-20 Wednesday 6/20/2007 10:00 AM
Room: 4

Oral Presentation

Hot Reformate Gas Desulfurization Using Regenerable Rare Earth Oxide Sorbents
Authors:
Wang, Zheng Tufts University, Medford, MA USA
Valsamakis, Ioannis Tufts University, Medford, MA USA
Si, Rui Tufts University, Medford, MA USA
Flytzani-Stephanopoulos, Maria Tufts University, Medford, MA USA
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12
O-S12-21 Wednesday 6/20/2007 10:30 AM
Room: 4

Oral Presentation

Novel Oxidative Adsorbents for the Selective Removal of Sterically Hindered Benzothiophenes From JP-8 Logistics Fuel
Authors:
Li, Liyu Pacific Northwest National Lab, Richland, WA
King, David L Pacific Northwest National Lab, Richland, WA
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12
O-S12-22-K **Wednesday 6/20/2007 11:00 AM Room: 4**

Keynote Presentation

Structural Requirements and Elementary Steps in Methane Reactions on Supported Metal Clusters
Authors:
Yamaguchi, Aritomo University of California, Berkeley, CA USA
Chin, Ya-Huei (Cathy) University of California, Berkeley, CA USA
Li, Mingshi University of California, Berkeley, CA USA
Janik, Michael University of Virginia, Charlottesville, VA USA

Neurock, Matthew
Iglesia, Enrique
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University of Virginia, Charlottesville, VA USA
University of California, Berkeley, CA USA

12
O-S12-23
Wednesday
6/20/2007
1:30 PM
Room: 4
*Oral
Presentation*

Effect of Fuel Type and Sulfur Compound Variation on the Performance of Partial Oxidation Reforming Catalysts
Authors:
Fisher, Galen B
Rahmoeller, Ken M
DiMaggio, Craig L
Wadu-Mesthrige, Kapila
Weissman, Jeffrey G
Tan, Eric C
Chen, Laiyuan
Kirwan, John E
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Delphi Catalysts, Tulsa, OK USA
Delphi Catalysts, Tulsa, OK USA
Delphi Research Labs, Shelby Township, MI USA

12
O-S12-24
Wednesday
6/20/2007
2:00 PM
Room: 4
*Oral
Presentation*

Development of Novel Sulfur Tolerant Catalysts for Heavy Fuel Reforming
Authors:
Goud, Sandeep K
Abraham, Martin A
Whittenberger, William A
Chattopadhyay, Sudipta
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University of Toledo, Toledo/OH USA
University of Toledo, Toledo/OH USA
Catacel Corporation, Garrettsville/OH USA
Catacel Corporation, Garrettsville/OH USA

12
O-S12-25
Wednesday
6/20/2007
3:00 PM
Room: 4
*Oral
Presentation*

Catalytic Partial Oxidation of Methane: Sulfur & High Space Velocity.
Authors:
Bitsch-Larsen, Anders
Degenstein, N J
Schmidt, L D
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University of Minnesota, Minneapolis/MN U.S.A.
University of Minnesota, Minneapolis/MN U.S.A.
University of Minnesota, Minneapolis/MN U.S.A.

12
O-S12-26
Wednesday
6/20/2007
3:30 PM
Room: 4
*Oral
Presentation*

The performance of CeO₂-modified Ni/Al₂O₃ catalyst in the autothermal reforming of iso-octane
Authors:
Jung, Kwang Seop
Choi, Sang Ok
Shin, Hyun Khil
Moon, Sang Heup
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GS Caltex Corporation, Daejeon Korea
Seoul National University, Seoul Korea
GS Caltex Corporation, Daejeon Korea
Seoul National university, Seoul Korea

12
O-S12-27
Wednesday
6/20/2007
4:00 PM
Room: 4
*Oral
Presentation*

A Unified Modeling Framework for Design of Multi-Site Catalysts: Application to NH₃ Decomposition for H₂ Production
Authors:
Prasad, Vinay
Karim, Altaf
Kaisare, Niket S
Hansgen, Danielle
Vlachos, Dionisios G
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University of Delaware, Newark, DE USA
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12
O-S12-28
Wednesday
6/20/2007
4:30 PM
Room: 4
*Oral
Presentation*

Hydrogen Production via Steam Gasification of Petroleum Coke
Authors:
Lopez Linares, Francisco
Sosa-Stull, Clementina
Hill, Josephine M
Pereira-Almao, Pedro
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Schulich School of Engineering, University of Calgary, Calgary/Alberta Canada
Schulich School of Engineering, University of Calgary, Calgary/Alberta Canada
Schulich School of Engineering, University of Calgary, Calgary/Alberta Canada
Schulich School of Engineering, University of Calgary, Calgary/Alberta Canada

13 - Novel Catalyst Synthesis Methods - [Back to top](#)

13 **Wednesday** ***Colloid Science and Photolithography Methods of Fabrication of Metal***

O-S13-01-K	6/20/2007 10:00 AM Room: 1	Authors: Somorjai, Gabor A Yang, Peidong View PDF File for this Abstract	University of California, Berkeley, USA University of California, Berkeley, USA
	<i>Keynote Presentation</i>		
13 O-S13-02	Wednesday 6/20/2007 11:00 AM Room: 1 <i>Oral Presentation</i>	Synthesis and Catalytic Activity of Monodisperse Pd Nanoparticle Catalysts Authors: Burton, Patrick D Lavenson, David Gorm, David Karim, Ayman Datye, Abhaya Hernandez-Sanchez, Bernadette A Boyle, Timothy J View PDF File for this Abstract	University of New Mexico, Albuquerque, NM USA University of New Mexico, Albuquerque, NM USA University of New Mexico, Albuquerque, NM USA University of New Mexico, Albuquerque, NM USA University of New Mexico, Albuquerque, NM USA Advanced Materials Laboratory, Albuquerque, NM USA Advanced Materials Laboratory, Albuquerque, NM USA
13 O-S13-03	Wednesday 6/20/2007 11:30 AM Room: 1 <i>Oral Presentation</i>	Atomic-Scale Site Isolation in a Model AuPd Catalyst Authors: Han, Patrick Lyubintsky, Igor V Goodman, David W View PDF File for this Abstract	Texas A&M University, College Station, TX USA Pacific Northwest National Laboratory, Richland, WA USA Texas A&M University, College Station, TX USA
13 O-S13-04	Wednesday 6/20/2007 1:30 PM Room: 1 <i>Oral Presentation</i>	Preparation, Characterization, and Kinetic Evaluation of Ag-Pt Bimetallic Catalysts Prepared by Electroless Deposition Authors: Pickerell, Anna C Schaal, Melanie T Williams, Christopher T Monnier, John R View PDF File for this Abstract	University of South Carolina, Columbia, SC U.S.A University of South Carolina, Columbia, SC U.S.A University of South Carolina, Columbia, SC U.S.A University of South Carolina, Columbia, SC U.S.A
13 O-S13-05	Wednesday 6/20/2007 2:00 PM Room: 1 <i>Oral Presentation</i>	Controlling electrocatalytic surface reactivity by lattice strain effects in de-alloyed Pt nanoparticles Authors: Strasser, Peter View PDF File for this Abstract	University of Houston, Houston, TX USA
13 O-S13-06	Wednesday 6/20/2007 3:00 PM Room: 1 <i>Oral Presentation</i>	PAMAM Dendrimers as Templates for the Preparation of Supported Pt and Rh Catalysts Authors: Siani, Attilio Deutsch, David S Alexeev, Oleg S Lafaye, Gwendoline Fanson, Paul T Hirata, Hirohito Matsumoto, Shinichi Ploehn, Harry J Williams, Christopher T Amiridis, Michael D View PDF File for this Abstract	University of South Carolina, Columbia/SC USA University of South Carolina, Columbia/SC USA University of South Carolina, Columbia/SC USA Universite de Poitiers, Poitiers Cedex France Toyota Motor Engineering and Manufacturing, Ann Arbor/MI USA Toyota Motor Corporation, Shizuoka Japan Toyota Motor Corporation, Shizuoka USA University of South Carolina, Columbia/SC USA University of South Carolina, Columbia/SC USA University of South Carolina, Columbia/SC USA
13 O-S13-07	Wednesday 6/20/2007 3:30 PM Room: 1 <i>Oral Presentation</i>	Dendrimer Templates for Supported Au and Bimetallic Au Catalysts Authors: Gilbertson, John D Long, Cormac G Auten, Bethany J	Trinity University, San Antonio, TX USA Trinity University, San Antonio, TX USA Trinity University, San Antonio, TX USA

Presentation
 Korkosz, Rachel J
 Crump, Christina J
 Chandler, Bert D
[View PDF File for this Abstract](#)
 Trinity University, San Antonio, TX USA
 Trinity University, San Antonio, TX USA
 Trinity University, San Antonio, TX USA

13
 O-S13-08
 Wednesday
 6/20/2007
 4:00 PM
 Room: 1
*Oral
 Presentation*
Novel Synthesis of Nanoscale Ceria and Gold-doped Ceria
Authors:
 Si, Rui
 Deng, Weiling
 Flytzani-Stephanopoulos, Maria
 Raitano, Joan
 Banerjee, Sarbajit
 Chan, Siu-Wai
 Herman, Irving P
[View PDF File for this Abstract](#)
 Tufts univ, Medford USA
 Tufts univ, Medford USA
 Tufts univ, Medford USA
 Columbia univ, New York USA
 Columbia univ, New York USA
 Columbia univ, New York USA
 Columbia univ, New York USA

13
 O-S13-09
 Wednesday
 6/20/2007
 4:30 PM
 Room: 1
*Oral
 Presentation*
Removal of Ag ions by selective wet etching from shape controlled Pt nanoparticles leads to highly active hydrogenation catalysts
Authors:
 Grass, Michael E
 Rioux, Rob M
 Hall, Chelsea
 Yang, Peidong
 Somorjai, Gabor A
[View PDF File for this Abstract](#)
 UC Berkeley, Berkeley, CA USA
 UC Berkeley, Berkeley, CA USA
 UC Berkeley, Berkeley, CA USA
 UC Berkeley, Berkeley, CA USA
 UC Berkeley, Berkeley, CA USA

13
 O-S13-10-K
**Thursday
 6/21/2007
 10:00 AM
 Room: 1**
***Keynote
 Presentation***
New Catalysts, Catalytic Structures, and Reactions
Authors:
 Kung, Harold H
[View PDF File for this Abstract](#)
 Northwestern University, Evanston, Illinois USA

13
 O-S13-11
 Thursday
 6/21/2007
 11:00 AM
 Room: 1
*Oral
 Presentation*
"Hard" vs. "soft" template synthesis of mesoporous Nb₂O₅ catalysts for oxidation reactions
Authors:
 Nowak, Izabela
 Jaronec, Mietek
[View PDF File for this Abstract](#)
 Adam Mickiewicz University, Faculty of Chemistry, Poznan Poland
 Kent State University, Chemistry Department, Kent/OH USA

13
 O-S13-12
 Thursday
 6/21/2007
 11:30 AM
 Room: 1
*Oral
 Presentation*
Alumina-Titania Nanofibers Synthesis Using Different Techniques of Ti Addition
Authors:
 Munoz-Lopez, Antonio
[View PDF File for this Abstract](#)
 IMP, Mexico Mexico

13
 O-S13-13
 Friday
 6/22/2007
 10:00 AM
 Room: 1
*Oral
 Presentation*
A novel and practical method for the preparation of a porous coating on the internal and external surfaces of catalyst particles.
Authors:
 Devi, Nandini
 Le Goaziou, Thomas
 Hardacre, Chris
 Burch, Robbie
 Collier, Paul
 Golunski, Stan
 Meunier, Frederic C
[View PDF File for this Abstract](#)
 Queen's University, Belfast UK
 Queen's University, Belfast UK
 Queen's University, Belfast UK
 Queen's University, Belfast UK
 Johnson Matthey, Reading UK
 Johnson Matthey, Reading UK
 Queen's University, Belfast UK

13
O-S13-14 Friday 6/22/2007 10:30 AM Room: 1
Oral Presentation

A new family of ATiO₃ (Ba, Ca, Sr) shape formed materials for a non-thermal plasma catalytic application
Authors:
Rossignol, Sylvie UMR6503 LACCO, Poitiers France
Fournaud, Benoit UMR6503 LACCO, Poitiers France
Tatibouet, Jean-Michel UMR6503 LACCO, Poitiers France
[View PDF File for this Abstract](#)

13
O-S13-15 Friday 6/22/2007 11:00 AM Room: 1
Oral Presentation

Microwave Reactor Engineering: Zeolite Synthesis
Authors:
Conner, Wm. Curtis UMASS, Amherst
Tompsett, G. UMASS, Amherst
Panzarella, B. UMASS, Amherst
Patel, B. UMASS, Amherst
Pratt, M. UMASS, Amherst
Pavlica, R. UMASS, Amherst
Gharebeh, M. UMASS, Amherst
Lu, F. UMASS, Amherst
Auerbach, S. UMASS, Amherst
Suib, S. UMASS, Amherst
Yngvesson, K.S. UMASS, Amherst
[View PDF File for this Abstract](#)

13
O-S13-16 Friday 6/22/2007 11:30 AM Room: 1
Oral Presentation

A Novel Calcination Method for Supported Metal Nitrate Catalyst Precursors
Authors:
Sietsma, Jelle Inorganic Chemistry & Catalysis/Utrecht University, Utrecht The Netherlands
van Dillen, Jos Inorganic Chemistry & Catalysis/Utrecht University, Utrecht The Netherlands
de Jongh, Petra Inorganic Chemistry & Catalysis/Utrecht University, Utrecht The Netherlands
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14 - Fuel Cells - [Back to top](#)

14
O-S14-01 Monday 6/18/2007 10:00 AM Room: 1
Oral Presentation

First-Principles Screening of Alloys for Electrocatalysis
Authors:
Greeley, Jeffrey P Argonne National Laboratory, Argonne, IL USA
Jaramillo, Thomas F Technical University of Denmark, Lyngby Denmark
Bonde, Jacob Technical University of Denmark, Lyngby Denmark
Chorkendorff, Ib Technical University of Denmark, Lyngby Denmark
Nørskov, Jens K Technical University of Denmark, Lyngby Denmark
[View PDF File for this Abstract](#)

14
O-S14-02 Monday 6/18/2007 10:30 AM Room: 1
Oral Presentation

A First Principles Analysis of the Mechanism for the Electroreduction of Oxygen over Pt
Authors:
Neurock, Matthew University of Virginia, Charlottesville, VA U.S.
Janik, Michael Pennsylvania State University, University Park, PA U.S.
[View PDF File for this Abstract](#)

14
O-S14-03-K **Monday 6/18/2007 11:00 AM Room: 1**
Keynote Presentation

Impact of Catalyst Activity and Loading on Performance and Durability: Progress and Challenges Toward Automotive Targets
Authors:
Yan, Susan G General Motors, Honeoye Falls/NY USA
[View PDF File for this Abstract](#)

14
O-S14-04 Monday 6/18/2007 1:30 PM Room: 1
Oral Presentation

Stability of Pt-3d-Pt Bimetallic Cathode Electrocatalysts for PEMFC
Authors:
Menning, Carl A University of Delaware, Newark/DE USA
Chen, Jingguang G University of Delaware, Newark/DE USA
[View PDF File for this Abstract](#)

Presentation

14 O-S14-05	Monday 6/18/2007 2:00 PM Room: 1 <i>Oral Presentation</i>	<i>Pt-M (M = Cu, Co, Ni) Alloy Catalysts for Oxygen Reduction in PEM Fuel Cell</i> Authors: Srivastava, Ratndeeep Prasanna, Mani Koh, Shirlaine Yu, Chengfei Strasser, Peter View PDF File for this Abstract	University of Houston, Houston US University of Houston, Houston US University of Houston, Houston US University of Houston, Houston US University of Houston, Houston US
14 O-S14-06	Monday 6/18/2007 3:00 PM Room: 1 <i>Oral Presentation</i>	<i>Functionalized Aligned Carbon Nanotubes as Pt-free Electrocatalyst with Novel Nanoarchitecture for PEMFC</i> Authors: Yang, Junbing Liu, Di-Jia View PDF File for this Abstract	Argonne National Laboratory, Argonne, Illinois USA Argonne National Laboratory, Argonne, Illinois USA
14 O-S14-07	Monday 6/18/2007 3:30 PM Room: 1 <i>Oral Presentation</i>	<i>Reaction Dynamics of Pt/C Cathode Surface in a Fuel Cell by In-Situ Time-Resolved XAFS Under Operating Conditions</i> Authors: Tada, Mizuki Murata, Shigeaki Asaoka, Takahiko Hiroshima, Kazutaka Okumura, Kazu Tanida, Hajime Uruga, Tomoya Nakanishi, Haruyuki Matsumoto, Shin-ichi Inada, Yasuhiro Nomura, Masaharu Iwasawa, Yasuhiro View PDF File for this Abstract	The University of Tokyo, Tokyo Japan Toyota Motor Cooperation, Shizuoka Japan Toyota Central Lab., Aichi Japan Toyota Central Lab., Aichi Japan Tottori University, Tottori Japan JASRI, Hyogo Japan JASRI, Hyogo Japan Toyota Motor Cooperation, Shizuoka Japan Toyota Motor Cooperation, Shizuoka Japan KEK, Ibaraki Japan KEK, Ibaraki Japan The University of Tokyo, Tokyo Japan
14 O-S14-08	Monday 6/18/2007 4:00 PM Room: 1 <i>Oral Presentation</i>	<i>Templated Anode Pt-Ru Electrocatalyst for Direct Methanol Fuel Cells</i> Authors: Switzer, Elise E Datye, Abhaya K Atanassov, Plamen View PDF File for this Abstract	University of New Mexico, Albuquerque/NM USA University of New Mexico, Albuquerque/NM USA University of New Mexico, Albuquerque/NM USA
14 O-S14-09	Monday 6/18/2007 4:30 PM Room: 1 <i>Oral Presentation</i>	<i>Highly Active Core-shell PtSnOx Nanocatalyst – Synthesis, Characterization and Performance as Anode Catalysts for Direct Alcohol Fuel Cell</i> Authors: Zhou, Zhenhua Jiang, L. Sun, G. Xin, Q. Zhou, B. Reuter, M. View PDF File for this Abstract	Headwaters Inc., Lawrenceville/NJ USA Headwaters Inc., Lawrenceville/NJ USA Headwaters Inc., Lawrenceville/NJ USA Headwaters Inc., Lawrenceville/NJ USA Headwaters Inc., Lawrenceville/NJ USA Headwaters Inc., Lawrenceville/NJ USA
14 O-S14-10	Tuesday 6/19/2007 10:00 AM Room: 1 <i>Oral Presentation</i>	<i>Mechanism of the Methane Electrochemical Oxidation and Reforming on Cu and Ni Anode Catalysts in SOFC</i> Authors: Yu, Zhiqiang Fisher II, James C Montanez, Felipe G Chuang, Steven View PDF File for this Abstract	University of Akron, Akron/OH USA , , ,

14 O-S14-11	Tuesday 6/19/2007 10:30 AM Room: 1 <i>Oral Presentation</i>	<i>Achieving high-performance with SOFC ceramic anodes</i> Authors: Gross, Michael D University of Pennsylvania, Philadelphia/PA USA Vohs, John M University of Pennsylvania, Philadelphia/PA USA Gorte, Raymond J University of Pennsylvania, Philadelphia/PA USA View PDF File for this Abstract
14 O-S14-12	Tuesday 6/19/2007 11:00 AM Room: 1 <i>Oral Presentation</i>	<i>Preferential Oxidation of CO to CO₂ in H₂-Streams Over Cobalt-based Catalysts for PEM Fuel Cells</i> Authors: Yung, Matthew M Ohio State University, Columbus, OH 43210 Zhao, Zhongkui Ohio State University, Columbus, OH 43210 Ozkan, Umit S Ohio State University, Columbus, OH 43210 View PDF File for this Abstract
14 O-S14-13	Tuesday 6/19/2007 11:30 AM Room: 1 <i>Oral Presentation</i>	<i>New reaction pathway in the selective oxidation of carbon monoxide over Ru/Al₂O₃</i> Authors: NAITO, SHUICHI KANAGAWA UNIV., YOKOHAMA JAPAN TAKANEZAWA, HIDENORI KANAGAWA UNIV., YOKOHAMA JAPAN HASEGAWA, MINORU KANAGAWA UNIV., YOKOHAMA JAPAN MIYAO, TOSHIHIRO KANAGAWA UNIV., YOKOHAMA JAPAN View PDF File for this Abstract
14 O-S14-14	Tuesday 6/19/2007 1:30 PM Room: 1 <i>Oral Presentation</i>	<i>In-situ Time-resolved Characterization of Pt-TiO₂-CeO₂ Nanocatalysts during the Water-Gas Shift Reaction</i> Authors: Wen, Wen Chemistry Department, Brookhaven National Laboratory, Upton/NY USA González-Jiménez, INÉS D Inst Catalis & Petroleoquimica (CSIC), Marie Curie 2, Madrid Spain NAVARRO YERGA, RUFINO M Inst Catalis & Petroleoquimica (CSIC), Marie Curie 2, Madrid Spain García Fierro, José L Inst Catalis & Petroleoquimica (CSIC), Marie Curie 2, Madrid Spain Marinkovic, Nebojsa Department of Chemical Engineering, University of Delaware, Newark/DE USA Hanson, Jonathan C Chemistry Department, Brookhaven National Laboratory, Upton/NY USA Rodriguez, José A Chemistry Department, Brookhaven National Laboratory, Upton/NY USA View PDF File for this Abstract
14 O-S14-15	Tuesday 6/19/2007 2:00 PM Room: 1 <i>Oral Presentation</i>	<i>Low temperature water-gas shift: weakening of formate C-H bond observed with alkali doping of Pt/ZrO₂ catalysts</i> Authors: Jacobs, Gary University of Kentucky Center for Applied Energy Research, Lexington, KY USA Davis, Burtron H University of Kentucky Center for Applied Energy Research, Lexington, KY USA Pigos, John M Honda Research Institute USA, Inc., Columbus, OH USA Brooks, Christopher J Honda Research Institute USA, Inc., Columbus, OH USA View PDF File for this Abstract
14 O-S14-16	Tuesday 6/19/2007 3:00 PM Room: 1 <i>Oral Presentation</i>	<i>Metal-Support Interactions in Supported Pt Catalysts: A Combined In Situ IR and Raman Spectroscopy Study under Reverse Water Gas Shift Reaction Conditions</i> Authors: Herzig, Andrew Lehigh University, Bethlehem, PA USA Lin, Wenying Lehigh University, Bethlehem, PA USA Kiely, Chris Lehigh University, Bethlehem, PA USA Wachs, Israel E Lehigh University, Bethlehem, PA USA View PDF File for this Abstract
14 O-S14-17	Tuesday 6/19/2007 3:30 PM Room: 1 <i>Oral Presentation</i>	<i>Novel Nanocatalysts for Water-Gas-Shift Reactions</i> Authors: Liu, Ping Brookhaven National Laboratory, New York USA Rodriguez, Jose A Brookhaven National Laboratory, New York USA View PDF File for this Abstract

14
O-S14-18-K **Tuesday**
6/19/2007
4:00 PM
Room: 1

Operando IR/EXAFS Studies of the Promotion-Inhibition Behavior of Pt-Nb₂O₅/Al₂O₃ Catalysts during the Preferential Oxidation of CO

Authors:
Wolf, Eduardo E University of Notre Dame, Notre Dame USA
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Keynote Presentation

15 - Novel Reactors - [Back to top](#)

15
O-S15-01 Monday
6/18/2007
10:00 AM
Room: 3

A HYBRID ADSORBENT-MEMBRANE REACTOR (HAMR) SYSTEM FOR HYDROGEN PRODUCTION

Authors:
Harale, Aadesh University of Southern California, Los Angeles/CA USA
Hwang, Hyun University of Southern California, Los Angeles, CA USA
Sahimi, Muhammad University of Southern California, Los Angeles, CA USA
Liu, Paul T.K. 2Media and Process Technology, Pittsburgh, PA USA
Tsotsis, Theodore University of Southern California, Los Angeles, CA USA
[View PDF File for this Abstract](#)

Oral Presentation

15
O-S15-02 Monday
6/18/2007
10:30 AM
Room: 3

Rh/La₂O₃ catalysts for hydrogen production using simultaneous CO₂ reforming and partial oxidation of methane in a membrane reactor

Authors:
Lombardo, Eduardo A INCAPE, Santa Fe Argentina
[View PDF File for this Abstract](#)

Oral Presentation

15
O-S15-03 Monday
6/18/2007
11:00 AM
Room: 3

Dual Bed Membrane Reactor for the Oxidation of Propane to Acrolein

Authors:
Wolf, Eduardo E University of Notre Dame, Notre Dame, IN USA
O'Neill, Christopher M University of Notre Dame, Notre Dame, IN USA
[View PDF File for this Abstract](#)

Oral Presentation

15
O-S15-04 Monday
6/18/2007
11:30 AM
Room: 3

Designing nanostructured membranes for selective oxidation: A mass transport modeling approach

Authors:
Albo, Simon E Northwestern University, Evanston, IL USA
Broadbelt, Linda J Northwestern University, Evanston, IL USA
Snurr, Randall Q Northwestern University, Evanston, IL USA
[View PDF File for this Abstract](#)

Oral Presentation

15
O-S15-05 Monday
6/18/2007
1:30 PM
Room: 3

Superior Pt-alloy catalysts for oxidative dehydrogenation of ethane to ethylene in microchannel reactors

Authors:
Long, Richard Velocys, Plain City/OH USA
[View PDF File for this Abstract](#)

Oral Presentation

15
O-S15-06 Monday
6/18/2007
2:00 PM
Room: 3

Catalytic Microchannel Reactors for Martian In-Situ Propellant Production

Authors:
Hu, Jianli PNNL, Richland USA
[View PDF File for this Abstract](#)

Oral Presentation

15
O-S15-07 Monday
6/18/2007
3:00 PM
Room: 3

Optimization of Heat Recuperating Reactor Strategies for Autothermal Fuel Reforming to Hydrogen

Authors:
Kaisare, Niket S University of Delaware, Newark, DE USA
Vlachos, Dionisios G University of Delaware, Newark, DE USA
[View PDF File for this Abstract](#)

Oral Presentation

Presentation

15 O-S15-08	Monday 6/18/2007 3:30 PM Room: 3	<i>Novel Compact Reactor for 3-Phase Hydrogenation</i> Authors: Kiwi-Minsker*, Lioubov Grasemann, Martin Semagina, Natalia Renken, Albert	Ecole Polytechnique Federal, Lausanne Switzerland , , ,
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Oral Presentation

[View PDF File for this Abstract](#)

15 O-S15-09	Monday 6/18/2007 4:00 PM Room: 3	<i>Catalysis in Structured Pulsed Reactors- Low- and High-Molecular Weight Hydrogenations</i> Authors: Bussard, Alan G Waghmare, Yogesh Knopf, Carl Dooley, Kerry M	Louisiana State University, Baton Rouge, LA USA Louisiana State University, Baton Rouge, LA USA Louisiana State University, Baton Rouge, LA USA Louisiana State University, Baton Rouge, LA USA
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Oral Presentation

[View PDF File for this Abstract](#)

15 O-S15-10	Monday 6/18/2007 4:30 PM Room: 3	<i>How Do Microwaves Influence Catalytic Reactions?</i> Authors: Conner, Wm. Curtis Tompsett, Geoffrey	UMASS, Amherst UMASS, Amherst
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Oral Presentation

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