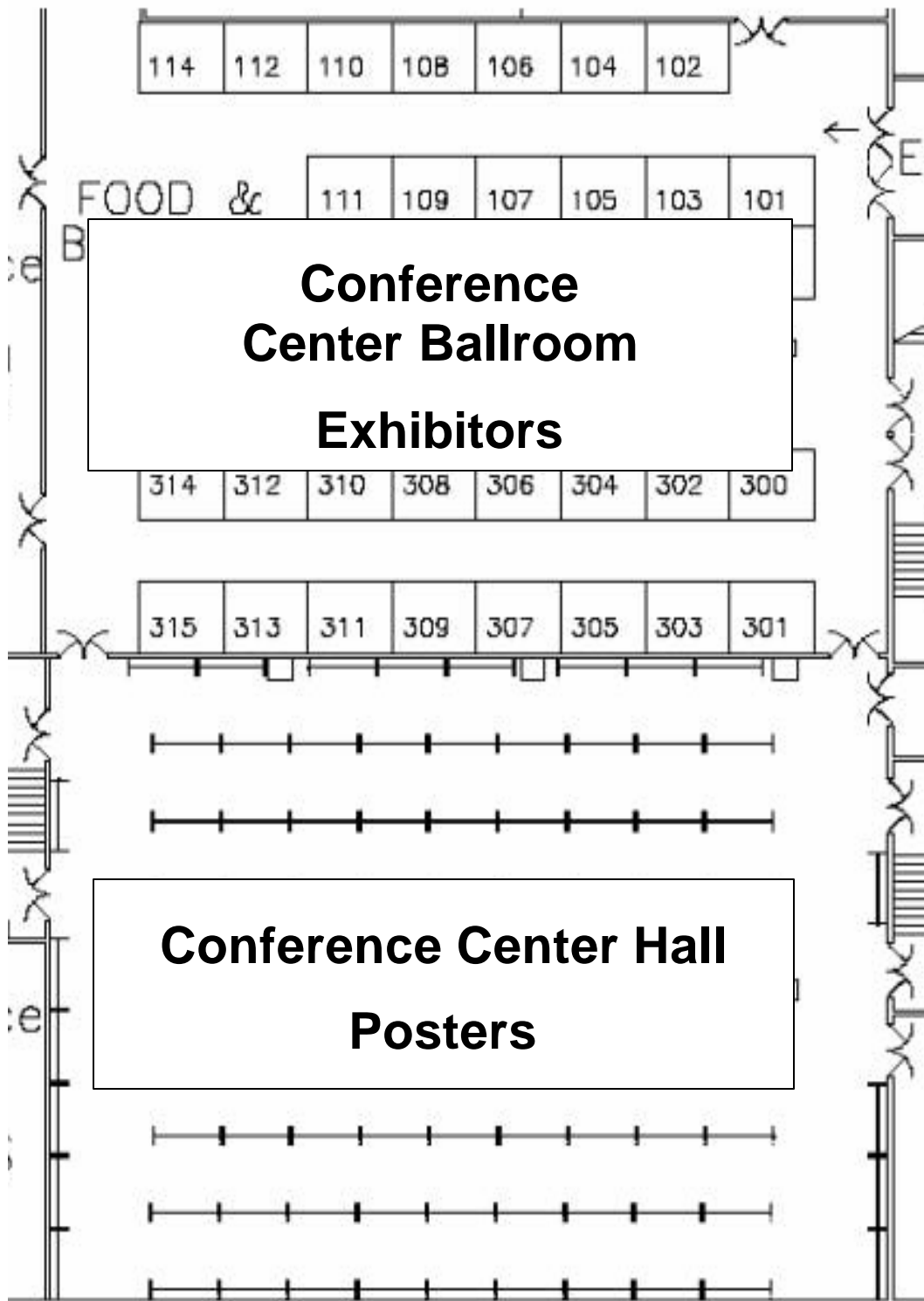


**Poster Presentations: Conference Center Hall,
Mezzanine Level of Wyndham Franklin Plaza Hotel**



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2005 NAM Posters Presentation - Monday Session

Topics: Electrocatalysis, Environmental/Gasoline, Pharma/Specialties, Desulfurization, Theory and Computation, Operando Spectroscopy, Environmental/Stationary and Polymerization

Poster Number	Reference
P-1	<p>Removal of Sulfur Components from Low Sulfur Gasoline Using Copper Exchanged Zeolite Y at Ambient Temperature</p> <p>Presenter: David L. King Author(s): King, David L.; Li, Liyu Pacific Northwest National Laboratory, Richland, WA USA</p>
P-2	<p>NiMo Catalysts Supported on Zeolite-Alumina Composites for Hydrodesulfurization of Hindered Dibenzothiophenes: Effect of the Zeolite Content</p> <p>Presenter: Dora Alicia Solis Casados Author(s): Solis, Dora (1); Klimova, Tatiana (1); Ramirez, Jorge (1); Lopez-agudo, Antonio (2) (1) Universidad Nacional Autonoma de México, México D.F. México (2) Instituto de Catalisis y Petroleoquimica, Madrid España</p>
P-3	<p>Reduction of the Synthesis Temperature of Ni₂P/SiO₂ by Pd Addition</p> <p>Presenter: Victor Teixeira da Silva Author(s): Teixeira da Silva, Victor (1); Amorim, Rosana M. (1); Andrini, Leandro (2); Lede, Eduardo J. (2); Requejo, Felix G. (2) (1) Depto de Engenharia Química, Instituto Militar de Engenharia, Rio de Janeiro, RJ Brazil (2) 2Dto. Física. FCE., Universidad Nacional de La Plata, La Plata, Buenos Aires Argentina</p>
P-4	<p>Effect of Textural Properties of NiMo/SBA-15 Catalysts on Their Performance in 4,6-DMDBT Hydrodesulfurization</p> <p>Presenter: JAVIER REYES Author(s): REYES, JAVIER (1); FUENTES, GUSTAVO (2); KLIMOVA, TATIANA (1) (1) Facultad de Química, Universidad Nacional Autónoma de México, D. F. México (2) Área de Ingeniería Química, Universidad Autónoma Metropolitana, D. F. México</p>
P-5	<p>New Hydrotreating NiMo Catalysts Supported on MCM-41 Modified with Phosphorus</p> <p>Presenter: Jose Manuel Herrera Alonso Author(s): HERRERA, JOSE M.; KLIMOVA, TATIANA Facultad de Química, Universidad Nacional Autónoma de México, D. F. México</p>

Poster Presentations - Monday

- P-6 SBA-15 Supports Modified by Ti and Zr Grafting for NiMo Hydrodesulfurization Catalysts
 Presenter: Oliver Gutierrez
 Author(s): Gutierrez, Oliver Y. (1); Fuentes, Gustavo (2); Klimova, Tatiana (1)
 (1) Universidad Autonoma de Mexico, Mexico D.F. Mexico
 (2) Universidad Autonoma Metropolitana-Iztapalapa, Mexico D.F. Mexico
- P-7 Surface Properties and Structure of Molybdenum Phosphides for Hydrodesulfurization Catalyst
 Presenter: Masatoshi Nagai
 Author(s): Yamazaki, Naohiro; Senshyu, Yoshiteru; Nagai, Masatoshi
 Tokyo University of Agriculture & Technology, Koganei, Tokyo Japan
- P-8 New Synthesis Method for Metal Phosphide Hydrotreating Catalysts
 Presenter: Shaofeng Yang
 Author(s): Prins, Roel; Yang, Shaofeng
 Institute for Chemical and Bioengineering, Swiss Federal Institute of Technology, Zurich Switzerland
- P-9 Influence of Ni and Co on Tungsten Sulfide Synthesized from Thiosals
 Presenter: José Luis Rico
 Author(s): Espino-Valencia, Jaime (1); Paraguay, Francisco (2); Alvarez, Lorena (2); Rivera, José Luis (1); Alonso, Gabriel (2); Rico, José Luis (1)
 (1) Universidad Michoacana, Morelia, Mich. México
 (2) CIMAV, Chihuahua, Chih. México
- P-10 Influence of the Decomposition Method on NiWS Catalysts Obtained from Tetrapropylammonium Thiotungstate
 Presenter: José Luis Rico
 Author(s): Espino-Valencia, Jaime (1); Alonso, Gabriel (2); Lara, Javier (1); González, Horacio (1); Rico, José Luis (1)
 (1) Universidad Michoacana, Morelia, Mich. México
 (2) CIMAV, Chihuahua, Chih. México
- P-11 Laboratory Evaluation of Gasoline Sulfur Reduction Additives
 Presenter: Jorge Gonzalez
 Author(s): Gonzalez, Jorge
 Albemarle Catalysts Co, LP, Pasadena, Texas USA
- P-12 Catalytic Properties of Activated Carbons for the Selective Oxidation of Hydrogen Sulfide
 Presenter: Viviane Schwartz
 Author(s): Schwartz, Viviane; Wu, Xianxian; Kercher, Andrew; Overbury, Steven H.; Armstrong, Timothy R.
 Oak Ridge National Lab, Oak Ridge, TN USA
- P-13 Synthesis and Characterization of Ternary Transition-Metal Phosphides. Activity in Dehydration of Propan-2-ol
 Presenter: Ricardo Garcia Alamilla
 Author(s): Lumbreras, Jose-Alberto P. (1); Ornelas, Carlos (2); Alonso, Gabriel (2); Escobar, Jose A. (3); Dominguez, Jose-Manuel E. (2); Sandoval-Robles, Guillermo (1)
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 (2) CIMAV, S.C., CHIHUAHUA, CHIHUAHUA MEXICO
 (3) INSTITUTO MEXICANO DEL PETROLEO
- P-14 Oxidant Effect during the Oxidative Desulfurization of a Model Diesel
 Presenter: Luis Cedeño Caero
 Author(s): Cedeño, Luis; Navarro, Jorge F.; Escobar, Luis A.
 Facultad de Quimica, UNICAT, UNAM, Mexico D.F. Mexico
- P-15 Study of the Effect of the Alumination Method on the Development of New NiMo Catalysts Supported on Al-SBA-16 for 4,6-Dimethyldibenzothiophene Hydrodesulfurization
 Presenter: Lilia Yolanda Lizama Hoth
 Author(s): Lizama, Lilia Y. (1); Amezcua, Juan C. (1); Domínguez, Jose M. (2); Klimova, Tatiana E. (1)
 (1) Facultad de Química, Universidad Nacional Autónoma de México, México, DF Mexico
 (2) Instituto Mexicano del Petróleo, México, DF México
- P-16 Nanostructured Hydrogenation Catalysts: Active Metal Clusters on Silicate Foams
 Presenter: Brian Greenhalgh
 Author(s): Greenhalgh, Brian R.; Kuznicki, Steven M.; Nelson, Alan E.
 University of Alberta, Edmonton AB Canada
- P-17 Effect of phosphorus in bimetallic (NiMo and CoMo) supported carbides and nitrides in the HDS of dibenzothiophene.
 Presenter: LAURA ANGELICA SANTILLAN VALLEJO
 Author(s): Santillan Vallejo, Laura Angelica (1); Melo Banda, Jose Aaron (1); Silva Rodrigo, Rebeca (1); Sandoval Robles, Guillermo (1); Dominguez Esquivel, Jose Manuel (2); De los Reyes Heredia, Jose Antonio (2)
 (1) INSTITUTO TECNOLOGICO DE CD. MADERO, CD. MADERO, TAMAULIPAS MEXICO
 (2) UNIVERSIDAD AUTONOMA METROPOLITANA, MEXICO, D. F. MEXICO

- P-18 Exfoliated MoS₂ as Catalyst for Hydrodesulfurization
 Presenter: Kevin J. Smith
 Author(s): Tye, Ching Thian; Smith, Kevin J.
 University of British Columbia, Vancouver, BC CANADA
- P-19 Characterization of Supported Molybdenum and Tungsten Catalysts for the Oxidative Desulfurization of Diesel
 Presenter: JOSE LUIS GARCIA GUTIERREZ
 Author(s): GARCIA-GUTIERREZ, JOSE L. (1); HERNANDEZ-PEREZ, ISAIAS (2); FUENTES-ZURITA, GUSTAVO (9); NAVARRETE-BOLAÑOS, JUAN (1); MURRIETA-GUEVARA, FLORENTINO R. (1) (1) INSTITUTO MEXICANO DEL PETROLEO, MEXICO D. F. MEXICO (2) UNIVERSIDAD AUTONOMA METROPOLITANA-AZCAPOTZALCO, MEXICO D. F. MEXICO
- P-20 Hydrodesulfurization of Dibenzothiophene on Alumina Supported Molybdenum Phosphide Catalysts
 Presenter: Alejandro Montesinos Castellanos
 Author(s): Montesinos, Alejandro; de los Reyes, Jose Antonio
 Universidad Autonoma Metropolitana Iztapalapa, DF Mexico
- P-21 Adsorptive Desulfurization of Gasoline and Diesel over Nickel Based Adsorbents
 Presenter: Jennifer Clemons
 Author(s): Clemons, Jennifer L.; Subramani, Velu; Ma, Xiaoliang; Song, Chunshan
 Penn State University, University Park, PA US
- P-22 Inhibition Effects Observed between 4,6-Dimethyldibenzothiophene and Quinoline on a NiMoP/Al₂O₃ Catalyst
 Presenter: Jose Antonio de los Reyes
 Author(s): de los Reyes, Jose A.; Garcia-Martinez, Julio C.
 Universidad A. Metropolitana-Iztapalapa, Mexico, DF Mexico
- P-23 Ultra-Deep Desulfurization of Jet Fuel by a Combination of in-situ Oxidation and Adsorption over Activated-Carbon-based Materials
 Presenter: Anning Zhou
 Author(s): Zhou, Anning; Ma, Xiaoliang; Song, Chunshan
- P-24 Competitive Adsorption of Sulfur, Nitrogen and Aromatic Compounds on Metal Sulfide Catalyst at 300°C
 Presenter: Jae Hyung Kim
 Author(s): Kim, Jae H.; Ma, Xiaoliang; Song, Chunshan
 Penn State University, University Park, PA USA
- P-25 NO Adsorption-Oxidative Capacity, in Presence of O₂ and CO, for NSR Reference Catalysts
 Presenter: Irene Malpartida García
 Author(s): Malpartida, Irene; Larrubia, M^a Ángeles; Herrera, Concepción; Alemany, Luis J.
 University of Málaga, Málaga Spain
- P-26 Accompanying the Oil Doped Poisoning on the Engine Bench Aging Cycle to Simulate the Real Deterioration of Three-Way Catalyst
 Presenter: Ho-Taek Lee
 Author(s): Lee, Ho-Taek; In, Chi-Bum; Yeo, Gwon-Koo
 Hyundai-Motor Company, Gyeonggi-Do Korea
- P-27 Dynamic Investigation of Reactivity of a-Oxygen with CO over Fe-MFI
 Presenter: Ayten ATEŞ
 Author(s): Ates, Ayten (1); Reitzmann, Andreas (2)
 (1) Cumhuriyet University, Engineering Faculty, Department of Chemical Engineering, Sivas Turkey
 (2) Institut für Chemische Verfahrenstechnik, Universität Karlsruhe, Karlsruhe Germany
- P-28 Optimization of Storage Performance of Lean NO_x Trap Catalysts
 Presenter: Xiaoyin Chen
 Author(s): Chen, Xiaoyin (1); Schwank, Johannes (1); Li, John (2); Schmitz, Peter J. (2)
 (1) University of Michigan, Ann Arbor, Michigan USA
 (2) Ford Motor Company, Dearborn, Michigan USA
- P-29 Structural and Catalytic Properties of BN Supported Noble Metals
 Presenter: Postole Georgeta
 Author(s): Postole, Georgeta 1. (1); Bonnetot, Bernard 2. (2); Ionescu, Niculae (3); Gervasini, Antonella 4. (3); Auroux, Aline 1. (1)
 (1) Institut de Recherches sur la Catalyse, CNRS, Villeurbanne France
 (2) Laboratoire des Multimatériaux et Interfaces, UMR 5615, UCB Lyon 1, Villeurbanne France
 (3) Institute of Physical Chemistry of the Romanian Academy
- P-30 High Throughput Approaches for Preparation of Supported Catalysts
 Presenter: Ahmad Moini
 Author(s): Moini, Ahmad; Koermer, Gerald S.; Castellano, Christopher R.
 Engelhard Corporation, Iselin, NJ USA

Poster Presentations - Monday

- P-31 CO Oxidation on Pd/Al₂O₃-(Ce_{1-x}Zr_x)O₂
 Presenter: Gabriela
 Author(s): Pérez, Gabriela (1); Fuentes, Sergio (2); Simakov, Andrey (2)
 (1) Posgrado en Física de Materiales, CICESE, Ensenada, B.C. México
 (2) Departamento de Catálisis, Ensenada, B.C. México
- P-32 Effect of La₂O₃ on Reducibility and Reactivity of Pd/Al₂O₃-(Ce_{0.5}Zr_{0.5}O₂-La₂O₃(x))
 Presenter: Sharon Sandoval
 Author(s): Sandoval, Sharon R.; Olivas, Amelia; Simakov, Andrey; Fuentes, Sergio M.
 CCMC-UNAM, Ensenada, B.C. Mexico
- P-33 Meso-porous Zirconias with Enhanced Thermal Stability
 Presenter: Anatoly Bortun
 Author(s): Bortun, Anatoly I.; Bortun, Mila N.; Pardini, James J.
 Magnesium Elektron Inc, Flemington, NJ USA
- P-34 Promoting Effect of Propane Traces on the Activity of Pt/?-Al₂O₃ and Pt-Sn/?-Al₂O₃ Catalysts in Methane Combustion
 Presenter: Grisel Corro
 Author(s): Corro, Grisel (1); Vazquez, Odilon C. (1); Garcia Fierro, Jose Luis (2)
 (1) Benemerita Universidad Autonoma de Puebla, Puebla Mexico
 (2) Instituto de Catalisis y Ptroleoquimica, Madrid España
- P-35 NO Oxidation over Ru/γAl₂O₃
 Presenter: John Li
 Author(s): Li, John; Watkins, William L.; Graham, George W.; Jen, H; McCabe, Robert W.
 Ford Motor Company, Dearborn, MI USA
- P-36 Novel Zeolitic Air Intake System Hydrocarbon Trap
 Presenter: Mark Buelow
 Author(s): Buelow, Mark T. (1); Foong, John S. (1); Hoke, Jeffrey B. (1); Bellis, Andrew G. (2)
 (1) Engelhard Corporation, Iselin, NJ USA
 (2) Ford Motor Company, Dearborn, MI USA
- P-37 Effect of SO₂ upon the Emission of Nitrous Oxide from Three-Way Catalytic Converters
 Presenter: Gustavo A. Fuentes
 Author(s): Mejia-Centeno, Isidro; Martínez-Hernández, Angel; Fuentes, Gustavo A.
 Area de Ing. Química, Universidad A. Metropolitana- Iztapalapa, Mexico, D.F. Mexico
- P-38 Oxidative Destruction of Chlorinated Aromatic Compounds over Vanadia/Titania Catalysts
 Presenter: Dong Jin Suh
 Author(s): Suh, Dong Jin (1); Choi, Jinsoo (2); Shin, Chee Burm (2)
 (1) Korea Institute of Science and Technology, Seoul Korea
 (2) Ajou University, Suwon, Kyunggi Korea
- P-39 Catalytic Oxidation of Hydrogen Sulphide to Sulfur using Activated Carbon
 Presenter: Ajay K. Dalai
 Author(s): Azargohar, Ramin; Dalai, Ajay K.
 University of Saskatchewan, Saskatoon, Saskatchewan Canada
- P-40 Pd/MCM-41: Catalysts for Methane Combustion
 Presenter: Marco Andre Fraga
 Author(s): Ruiz, Juan Alberto C. (1); Fraga, Marco A. (2); Pastore, Heloise O. (1)
 (1) Universidade Estadual de Campinas, Campinas, SP Brazil
 (2) Instituto Nacional de Tecnologia, Rio de Janeiro, RJ Brazil
- P-41 Deactivation Pathways of Co- and Pt,Co-Mordenites used for the SCR of NO_x with CH₄
 Presenter: Eduardo A. Lombardo
 Author(s): Gutierrez, Laura (1); Ulla, María A. (1); Lónyi, Ferenc (2); Valyon, József (2)
 (1) INCAPE, Santa Fe, Santa Fe ARGENTINA
 (2) Institute of Surface Chemistry and Catalysis, Chemical Research Center,, Budapest HUNGARY
- P-42 Selective Catalytic Reduction of NO with NH₃ over Pt/AISBA-15 Catalysts
 Presenter: Min Kang
 Author(s): Kang, Min; Hyung Ik, Lee; Jeong Kuk, Shon; Eun Duck, Park; Jae Eui, Yie; Ji Man, Kim
 Min Kang, Suwon South Korea
- P-43 Selective Catalytic Reduction of NO Using Dual-bed Catalytic System with Oxidation and Reduction Functions
 Presenter: Jeong Kuk Shon
 Author(s): Jeong Kuk, Shon; Min, Kang; Tae Hun, Yeon; Eun Duck, Park; Ji Man, Kim; Jae Eui, Yie
 Jeong Kuk Shon, Suwon South Korea
- P-44 Changing Temperature Window of NO Reduction by H₂ over Pt/Al₂O₃
 Presenter: Jung Il Yang
 Author(s): Yang, Jung I. (1); Jung, Heon (1); Lee, Kwan Y. (2)
 (1) Korea Institute of Energy Research, Daejeon Republic of Korea
 (2) Korea University, Seoul Republic of Korea

P-45 Effect of Support Material on the Catalytic Properties of Bimetallic Pd:Pt Catalysts for Combustion of Methane

Presenter: Katarina Persson
Author(s): Persson, Katarina; Eriksson, Sara; Boutonnet, Magali; Järås, Sven
KTH - Royal Institute of Technology, Stockholm Sweden

P-46 Computational Investigation of Cation Migration and its Effect Upon the Thermochemistry of N₂O Decomposition over Fe/ZSM-5

Presenter:
Author(s): Lund, Carl R.; Chen, Bin
University at Buffalo, SUNY, Buffalo, NY 14260 USA

P-47 The Effect of the Catalyst Precursors in the Catalytic Activity of Methane Combustion

Presenter: Soraia Teixeira Brandao
Author(s): Simplício, Lilian M. T. (1); Brandão, Soraia T. (1); Sales, Emerson A. (1); Groppi, Giampiero (2); Lietti, Luca (2)
(1) UFBA, Salvador, Bahia Brazil
(2) Politecnico, Milano Italy

P-48 Catalytic Properties of Nanofibrous Tunnel-Structured Manganese Dioxide in Total Oxidation of Volatile Organic Compounds

Presenter: Jian Luo
Author(s): Luo, Jian; Zhang, Qihua; Leonard, Rita; Carus, Paul
Carus Chemical Company, LaSalle, IL USA

P-49 Improved Low-NO_x CO Combustion Promoters

Presenter: Darrell Rainer
Author(s): Rainer, Darrell R.; Luo, Lin
Albemarle Catalysts, Pasadena, Texas 77507 USA

P-51 Catalytic Wet Air Oxidation of Methyl Tert-Butyl Ether (MTBE) using Rh/Al₂O₃ and Rh/Ce-Al₂O₃ Catalysts

Presenter: Del Angel Gloria
Author(s): Cua uhtémoc, Ignacio (1); Del Angel, Gloria (1); Torres, Gilberto (1); Bertin, Virineya (1); Navarrete, Juan (2)
(1) UAM-I, Mexico DF Mexico
(2) IMP, Mexico DF Mexico

P-52 Electrical Properties of Anatase Thin Films

Presenter: Nancy Dudney
Author(s): Veith, Gabriel M.
Oak Ridge National Laboratory, Oak Ridge, TN USA

P-54 Remarkable Hydrodechlorination Activity over Silica Supported Nickel/Gold Catalysts

Presenter: Dr. Catherine Louis
Author(s): Yuan, Guan (1); Llanos Lopez, Javier (1); Louis, Catherine (2); Delannoy, Laurent (2); Keane, Mark A. (1)
(1) Department of Chemical and Materials Engineering, University of Kentucky, Lexington, Kentucky USA
(2) Laboratoire de Réactivité de Surface, UMR 7609 CNRS, Université Pierre et Marie Curie, Paris France

P-55 High Surface Area Tin Oxide Catalyst Carriers

Presenter: Alfred Hagemeyer
Author(s): Hagemeyer, Alfred; Hogan, Zach; Sokolovskii, Valery; Streukens, Guido; Volpe, Anthony F.; Yaccato, Karin
Symyx Technologies, Santa Clara, CA 95051 USA

P-56 NO₂ Adsorption in Na/H-ZSM-5 and Ba-ZSM-5 Films Supported on Cordierite Monolith

Presenter: Indra Perdana
Author(s): Perdana, Indra (1); Creaser, Derek (1); Öhrman, Olov (2); Hedlund, Jonas (2); Bendiyasa, I Made (9)
(1) Chalmers Univ. of Tech., Göteborg Sweden
(2) Luleå Univ. of Tech, Luleå Sweden

P-57 Characterization of Alternative SCR Catalyst with Increased Resistance towards Alkali Poisoning

Presenter: Soren Birk Rasmussen
Author(s): Kustov, Arkady (1); Rasmussen, Soren B. (1); Eriksen, Michael (1); Simonsen, Peter (2); Fehrmann, Rasmus (1)
(1) ICAT & Department of Chemistry, DK-2800 Kgs. Lyngby Denmark
(2) ENERGI E2 A/S, DK-2450 Copenhagen Denmark

P-58 Kinetic Study of NO Reduction by CH₄ over Pd/Co-Sulfated Zirconia Catalysts

Presenter: Luis Fernando Córdoba
Author(s): Cordoba, Luis Fernando; Montes, Consuelo
Universidad de Antioquia, Medellín Colombia

P-59 Preparation and Characterization of Nanoporous Montmorillonite Heterostructure Catalysts and its Acidic Catalysis for Alkylation of Catechol with Tert-Butyl Alcohol

Presenter: Zhou Chunhui
Author(s): Chunhui, Zhou; Zhonghua, Ge; Xiaonian, Li; Weihua, Yu; Fan, Wang
Zhejiang University of Technology, Hangzhou China

Poster Presentations - Monday

- P-60 Gas Phase Esterification of Acetic Acid with Methanol on Solid Acids: a Comparative Study of Catalyst Activity and Deactivation
- Presenter: James G. Goodwin, Jr.
Author(s): Suwannakarn, Kaewta; Lotero, Edgar; Goodwin, James G.; Bruce, David
Clemson University, Clemson, SC USA
- P-61 Comparison of Different Catalyst Library Design Strategies
- Presenter: Jozsef Margitfalvi
Author(s): Margitfalvi, József L.; Tompos, András; Tfirst, Ernő
Institute of Surface Science and Catalysis, Chemical Research Center, Budapest
Hungary
- P-62 On the Homogeneity of Amine Groups in 3-Aminopropyl-Functionalized Silica for Immobilization of Homogeneous Catalysts
- Presenter: Jason Hicks
Author(s): Hicks, Jason C.; Jones, Christopher W.
Georgia Institute of Technology, Atlanta, Georgia USA
- P-63 Reaction and Recovery of a Sol-gel Entrapped Pd Catalyst and a Sol-gel Entrapped and Covalently Immobilized Pd-pincer Catalyst Used in the Heck Reaction
- Presenter: John Richardson
Author(s): Richardson, John M.; Jones, Christopher W.
Georgia Institute of Technology, Atlanta, GA United States of America
- P-64 Synthesis Dimethyl Carbonate from Urea and Methanol over Solid Base Catalysts
- Presenter: Mouhua Wang
Author(s): Wang, Mouhua; Zhao, Ning; Wei, Wei; Sun, Yuhan
Institute of Coal Chemistry, Chinese Academy of Sciences, Taiyuan, Shanxi
China
- P-65 Hydrogen-Assisted 1,2-Dichloroethane Dechlorination Catalyzed by Pt/SiO₂ and Pt-Cu/SiO₂ Planar Model Catalysts
- Presenter: Julie L. d'Itri
Author(s): Kazachkin, Dmitry V. (1); Borgna, Armando (2); Sorescu, Dan C. (3); Kovalchuk, Vladimir I. (1); Niemantsverdriet, Johannes W. (2); d'Itri, Julie L. (1)
(1) University of Pittsburgh, Pittsburgh USA
(2) Technical University of Eindhoven, Eindhoven The Netherlands
(3) U.S. Department of Energy
- P-66 Methylation of 2-Methylnaphthalene over Dealuminated Zeolite Catalysts in the High-Pressure Fixed-Bed Flow Reactor
- Presenter: Chul Wee Lee
Author(s): Park, Jung-Nam (1); Wang, Jun (2); Han, Sang Yun (1); Lee, Chul Wee (1)
(1) Korea Research Institute of Chemical Technology, Daejeon 305-600 Korea
(2) Nanjing University of Technology, Nanjing 210009 China
- P-67 The Promotional Effect of Mn on Methanol Synthesis Catalyst
- Presenter: Kai.Jiang
Author(s): Rui, Shao; Kai, Jiang; Mengqiang, Shen
Ally RuiXing New Chemical Materials Ltd, ChengDu SiChuan China
- P-68 Engineering Catalytic Reaction Path ways: Benzene Alkylolation with Ethane into Ethylbenzene
- Presenter: Dmitry Lukyanov
Author(s): Lukyanov, Dmitry B.; Vazhnova, Tatiana
University of Bath, Bath UK
- P-69 Conversion of Biomass-derived Syngas to Oxygenates
- Presenter: James J. Spivey
Author(s): Egbebi, Adefemi; Spivey, James J.
Louisiana State University, Baton Rouge, LA USA
- P-70 Structure and Reactivity of Zirconium Oxide Supported Ammonium Salt of 12-Molybdophosphoric Acid Catalysts in the Ammoxidation of 2-Methyl Pyrazine
- Presenter: Sai Prasad
Author(s): Rao, K.; Lingaiah, N.; Suryanarayana, I; Prasad, P.S.
Indian Institute of Chemical Technology, Hyderabad India
- P-71 Investigation of Immobilized Metal Salen-like Catalysts for Cyclic Carbonate Synthesis
- Presenter: Rebecca Shiels
Author(s): Shiels, Rebecca A.; Jones, Christopher W.
Georgia Institute of Technology, Atlanta, GA
- P-72 Application of Supported Ionic Liquid-Phase (SILP) Catalysts in Continuous-Flow Processes
- Presenter: Anders Riisager
Author(s): Riisager, Anders (1); Fehrmann, Rasmus (1); Haumann, Marco (2); Wasserscheid, Peter (2)
(1) Technical University of Denmark, Kgs. Lyngby Denmark
(2) Universität Erlangen-Nürnberg, Erlangen Germany

- P-73 Combinatorial Approaches for Developing New Catalysts for Polyols
 Presenter: John Holladay
 Author(s): Holladay, Johnathan E.; Muzatko, Danielle S.; Frye, John G.; White, James F.
 Pacific Northwest National Laboratory, Richland, WA 99337
- P-74 Catalytic Dehydration of Ethanol to Ethylene over Pentasil Zeolites
 Presenter: Jose Luis Agudelo Valderrama
 Author(s): Agudelo Valderrama, Jose Luis; Montes de Correa, Consuelo
 Universidad de Antioquia, Medellin Colombia
- P-75 Hydrogenation of Natural Rubber Latex Catalyzed by OsHCl(CO)(O₂)(PCy₃)₂
 Presenter: Aungutorn
 Author(s): Mahittikul, Aungutorn; Prasassarakich, Pattarapan; Rempel, G.L.
 Chulalongkorn University, Bangkok Thailand
- P-76 Tuning a Cr-Based Polymerization Catalyst into a Trimerisation Catalyst: Playing with Active Sites on a Silica Surface
 Presenter: Cristina Nenu
 Author(s): Cristina, Nenu N.; Bert, Weckhuysen M.
 Utrecht University, Utrecht The Netherlands
- P-77 Catalysis from Self-Assembled Organometallic Block Copolymers
 Presenter: Alexis T. Bell
 Author(s): Durkee, David; Balsara, Nitash; Bell, Alexis T.
 Dept. of Chem. Eng., Univ of Calif., Berkeley, CA 94720-1462 USA
- P-78 Silica-Tethered Ti(IV) Constrained Geometry Inspired Catalysts for Ethylene-Norbornene Copolymerization
 Presenter: Christopher W. Jones
 Author(s): Michael, McKittrick W.
 Georgia Institute of Technology, Atlanta, GA 30332 USA
- P-79 First Principles Prediction of Hydrogen Dissociation: H₂ on Clean and Oxygen Covered Pt(111)
 Presenter: Jeffery Ludwig
 Author(s): Ludwig, Jeffery; Vlachos, Dion G.
 University of Delaware, Newark, DE USA
- P-80 DFT Study of Selective Ring Opening over Metal/Mixed Metal Oxide Catalysts
 Presenter: Alex Abraham
 Author(s): Abraham, Alex; Sun, Mingyong; Nelson, Alan E.
 University of Alberta, Edmonton, Alberta Canada
- P-81 Quantum Chemistry Calculation of the Interaction of Hydrogen and Carbon Nanotube Defects
 Presenter: Wang Baojun
 Author(s): Wang, Baojun; Zhao, Qingyan; Zhang, Riguang; Xie, Kechang
 Taiyuan University of Technology, Taiyuan, Shanxi P. R. China
- P-82 Study of Spherosiloxane Adsorption on Metal Surfaces
 Presenter: Dylan Kershner
 Author(s): Kershner, Dylan; Medlin, James W.
 University of Colorado, Boulder, Colorado USA
- P-83 Existence and Unicity of the Determination Problem Solution of the Dead Core in Porous Catalysts
 Presenter: Emiliana Bastos de Amorim
 Author(s): Amorim, Emiliana B.; Rosa, Ana Paula V.; Queiroz, Luiz Carlos
 College of Chemical Engineering of Lorena - FAENQUIL, Lorena, São Paulo Brazil
- P-84 Effect of Fe Doping on The Catalytic Activity of Silica in the Partial Oxidation of Methane to Formaldehyde - A Quantum Chemical Study
 Presenter: ISIK ONAL
 Author(s): FELLAH, FERDI (1); ONAL, ISIK (1); SENKAN, SELIM (1)
 (1) MIDDLE EAST TECHNICAL UNIVERSITY, ANKARA TURKEY
 (2) UNIVERSITY OF CALIFORNIA, LOS ANGELES, LOS ANGELES, CA TURKEY
- P-85 Towards an Understanding of the Re L₃-edge XANES of Re/?-Al₂O₃
 Presenter: Fernando D. Vila
 Author(s): Vila, Fernando D. (1); Joshua, Kas (1); Rehr, John J. (1); Low, John J. (2); Bare, Simon R. (2)
 (1) University of Washington, Seattle, WA 98195 USA
 (2) UOP LLC, Des Plains, IL 60016 USA
- P-86 A New Model for the Molecular Structure of Supported Vanadium Oxide Catalysts
 Presenter: Drs. J.N.J. van Lingen
 Author(s): van Lingen, Joost (1); Gijzeman, Onno (1); van Lenthe, Joop (2); Weckhuysen, Bert (1)
 (1) Department of Inorganic Chemistry and Catalysis, Debye Institute, Utrecht University, Utrecht The Netherlands
 (2) Theoretical Chemistry Group, Debye Institute, Utrecht University, Utrecht The Netherlands

Poster Presentations - Monday

- P-87 Correlating Electronic and Catalytic Properties of Bimetallic Surfaces
 Presenter: Amit Goda
 Author(s): Goda, Amit M.; Barteau, Mark A.; Chen, Jingguang G.
 University of Delaware, Newark, DE 19716 United States
- P-88 NO_x Storage on BaO: New Insights from *ab initio* Molecular Dynamics
 Presenter: Henrik Gronbeck
 Author(s): Gronbeck, Henrik (1); Broqvist, Peter (1); Panas, Itai (2)
 (1) Competence Centre for Catalysis, Chalmers University of Technology, SE-412 96 Goteborg Sweden
 (2) Department of Environmental Inorganic Chemistry, Chalmers University of Technology, SE-412 96 Goteborg Sweden
- P-89 Study of CO and NO on Metals and Zeolites using Spartan
 Presenter: pravin c utekar
 Author(s): Utekar, Pravin C.; Gujar, Amit C.; Price, Geoffrey L.; Purser, Gordon H.; Ford, Laura P.
 University of Tulsa, Tulsa, OK 74104 USA
- P-90 Dissociative Adsorption of Propane on Vanadia Catalyst Surfaces: A Computational Study
 Presenter: Stan A. Zygmunt
 Author(s): Zygmunt, Stan (1); Zapol, Peter (2); Sternberg, Michael (2); Adiga, Shashishekar (2); Redfern, Paul (2); Rogers, Timothy (1)
 (1) Valparaiso University, Valparaiso, IN 46383 USA
 (2) Argonne National Laboratory, Argonne, IL 60439 USA
- P-91 Mathematical Modeling of the Dead Core in Porous Catalysts for Reactions of Fractionary Orders
 Presenter: Ana Paula Vitorino Rosa
 Author(s): Rosa, Ana Paula Vitorino; Amorim, Emilian Bastos; Oliveira, Samuel C.; Queiroz, Luiz Carlos de
 Faculty of Chemical Engineering of Lorena, Lorena -SP Brazil
- P-92 Influence of Hydrodynamics on Reactive Precipitation
 Presenter: Mohsen H. Al-Rashed
 Author(s): Al-Rashed, Mohsen H.
 PAAET, College of Technological Studies, Dept of Chemical Eng., Shuwaikh, Kuwait Kuwait
- P-93 Stabilities of C₃-C₅ Alkoxide Species inside H-FER Zeolite: A Hybrid QM/MM Study
 Presenter: Ville Nieminen
 Author(s): Nieminen, Ville (1); Sierka, Marek (2); Murzin, Dmitry Y. (1); Sauer, Joachim (2)
 (1) Åbo Akademi University, Turku Finland
 (2) Humboldt-Universität zu Berlin, Berlin Germany
- P-94 Quantum Mechanical Calculations of Ethylene Hydrogenation on Nickel (111) Surface
 Presenter: ASLI SAYAR
 Author(s): SAYAR, ASLI (1); ONAL, ISIK (1); SENKAN, SELIM (2)
 (1) MIDDLE EAST TECHNICAL UNIVERSITY, ANKARA TURKEY
 (2) UNIVERSITY OF CALIFORNIA, LOS ANGELES, LOS ANGELES, CA TURKEY
- P-95 Analysis of Cyclization Pathways for C₆, C₇ and C₈ Dienes in HZSM-5 Using Hybrid DFT/MM Approach
 Presenter: Yogesh V. Joshi
 Author(s): Joshi, Yogesh V.; Thomson, Kendall T.
 School of Chemical Engineering, Purdue University, West Lafayette, IN 47907 USA
- P-96 Catalysis and Mass Transfer in Fuel Cell Polarization Curves
 Presenter: Marten Ternan
 Author(s): Belanger, Raymond (); Ternan, Marten (1)
 (1) Palcan Fuel Cells, Burnaby, British Columbia, V5A 4N6 Canada
 (2) EnPross Inc., Ottawa, Ontario, K2L 1C5 Canada
- P-97 Electric Field Effects on Fuel Cell Cathodes
 Presenter: Matthew Hyman
 Author(s): Hyman, Matthew P.; Medlin, James W.
 University of Colorado, Boulder, Colorado USA
- P-98 Neutron Scattering Studies of Hydrogenation/Dehydrogenation of Nano-Carbon Materials
 Presenter: Alexander I. Kolesnikov
 Author(s): Kolesnikov, Alexander I. (1); Loong, Chun K. (1); Leon, Vincent (2); deSouza, Nicolas R. (1); Moravsky, Alexander P. (3); Loutfy, Raouf O. (3)
 (1) Argonne National Laboratory, Intense Pulsed Neutron Source, Lemont, IL U.S.A.
 (2) CRMD-CNRS, Université d'Orléans, Orleans France

- P-99 Multifunctional Composites Containing Molybdenum Carbides As Potential Electrocatalysts
Presenter: Erich Weigert
Author(s): Weigert, Erich C. (1); South, Joseph (2); Chen, Jingguang G. (1)
(1) University of Delaware, Newark, DE USA
(2) U.S. Army Research Laboratory, Aberdeen Proving Ground, MD USA
- P-100 Effect of Cu Film Morphology on the Performance of Cu/CeO₂/YSZ Solid Oxide Fuel Cell Anodes
Presenter: SukWon Jung
Author(s): Jung, Suk Won; Vohs, John M.; Gorte, Raymond J.; Jung, SukWon
University of Pennsylvania, Philadelphia, Pennsylvania USA
- P-101 Deposition of Cu into SOFC Anodes with Electroless and Electrochemical Techniques
Presenter: Michael D. Gross
Author(s): Gross, Michael D.; Gross, Michael D.; Vohs, John M.; Gorte, Raymond J.
University of Pennsylvania, Philadelphia, PA USA
- P-102 Environmental Dependence of Oxygen Transport in a Solid Oxide Electrolyte: a Joint Theoretical and Experimental Study
Presenter: Yong Jiang
Author(s): Jiang, Yong (1); Wang, Ruigang (1); Adams, James B. (1); Sharma, Renu (2); Crozier, Peter A. (2)
(1) Science and Engineering of Materials Program, Arizona State University, Tempe, AZ, 85287-1704 USA
(2) Center for Solid State Science, Arizona State University, Tempe, AZ, 85287-1704 USA
- P-103 A Simple Method to Synthesis Highly Loaded, Highly Dispersed Pt on Carbon
Presenter: John R. Regalbuto
Author(s): Castorano, Mike; Jaime, Robles; Xianghong, Hao
U. Illinois at Chicago, Chicago, Illinois USA
- P-104 Pt Nanoclusters studded in the microporous nanowall of ordered mesoporous carbon for fuel cell cathode materials
Presenter: Seong Ihl Woo
Author(s): Woo, Seong Ihl (1); Choi, Won Choon (2); Jeon, Min Ku (1); Liu, Jing Hua (1); Li, Shuang (1)
(1) Korea Advanced Institute of Science and Technology & Center for Ultramicrochemical Process Systems, Daejeon Republic of Korea
(2) Korea Research Institute of Chemical Technology, Daejeon Republic of Korea
- P-105 Use of Single-Wall Carbon Nanotubes in Fuel Cells
Presenter: Anca Faur-Ghenciu
Author(s): Faur-Ghenciu, Anca (1); Mullapudi, Sailesh (1); Trusty, Nathan E. (1); Bahr, Jeff (2); Smith, Ken (2); Fisher, Allison (3)
(1) Johnson Matthey Fuel Cells, Inc., 1397 King Road, West Chester, PA 19380 USA
(2) Carbon Nanotechnologies, Inc., 16200 Park Row, Houston, TX 77084 USA
(3) Motorola Inc.
- P-106 CO Oxidation over Pt/Al₂O₃ - A Transient in situ FTIR and XANES Study
Presenter: Magnus Skoglundh
Author(s): Carlsson, Per-Anders; Österlund, Lars; Thormählen, Peter; Palmqvist, Anders; Fridell, Erik; Jansson, Jonas
Competence Centre for Catalysis, Chalmers University of Technology, SE-412 96 Göteborg Sweden
- P-107 New synchrotron characterization techniques for studying heterogeneous catalysts
Presenter: Frank de Groot
Author(s): de Groot, Frank M.; Glatzel, Pieter; Heijboer, Willem M.; Koningsberger, Diek C.; Weckhuysen, Bert M.
Utrecht University, Utrecht Netherlands
- P-108 V/d-Al₂O₃ Catalysts for Butane Dehydrogenation Studied by Raman Spectroscopy
Presenter: Zili Wu
Author(s): Wu, Wu; Stair, Peter C.
Northwestern University, Evanston, IL USA
- P-109 Observation of the Kinetically Relevant Surface Ethyl Species During Ethylene Hydrogenation over Pt/Al₂O₃ Catalyst by Time-resolved FT-IR Spectroscopy
Presenter: Walter A. Wasylenko
Author(s): Wasylenko, Walter A.; Ko, Moon Kyu; Frei, Heinz
Lawrence Berkeley National Laboratory, Berkeley, CA United States

- P-110 Combined UV-Vis and Raman Microspectroscopy: Probing the Initial Stages of Supported Metal Oxide Catalyst Preparation
 Presenter: Leon van de Water
 Author(s): van de Water, Leon; Bergwerff, Jaap; de Jong, Krijn; Weckhuysen, Bert
 Utrecht University, Utrecht The Netherlands
- P-111 Local Aluminum Structure in Zeolites during Treatment and Catalytic Reaction
 Presenter: Jeroen A. van Bokhoven
 Author(s): van Bokhoven, Jeroen A.; Prins, Roel
 Swiss Federal Institute of Technology (ETH), Zurich, ZH Switzerland
- P-112 Operando IR , In-situ EXAFS and Activity Studies of the Effect of S on Pt Supported Catalysts during CO Oxidation: cm^{-1} , but the integrated absorbance intensity is only slightly affected by the presence of the
 Presenter: Eduardo E. Wolf
 Author(s): Wolf, Eduardo E. (1); Gracia, Francisco J. (1); Miller, Jeffrey T. (2); Kropf, Jeremy A. (9)
 (1) University of Notre Dame, Notre Dame, IN USA
 (2) BP Research Center, Naperville, IL USA
- P-113 An "Operando" DRIFTS-MS Study on $\text{Ce}_x\text{Zr}_{1-x}\text{O}_2$ Dynamic OSC Properties
 Presenter: Vladimiro Dal Santo
 Author(s): Recchia, Sandro (2); Mondelli, Cecilia (9); Fusi, Achille (9); Psaro, Rinaldo (1); Boaro, Marta (9); Trovarelli, Alessandro (9)
 (1) ISTM CNR, MIlano Italy
 (2) 2Dip. Scienze CC.FF.MM., Università dell'Insubria, Como Italy
- P-114 In situ Raman studies of molybdenum oxide based powder and thin film catalysts during the selective oxidation of light alka(e)nes
 Presenter: Annette Trunschke
 Author(s): Beato, Pablo; Trunschke, Annette; Schloegl, Robert
 Fritz Haber Institute of the Max Planck Society, 14195 Berlin Germany
- P-115 In Situ Studies of Microwave Catalyzed Reactions: Zeolite Synthesis
 Presenter: W. Curt Conner
 Author(s): Tompsett, Geoffrey (1); Yngvesson, K. Sigfrid (1); Panzarella, Bernard (1); Hsu, Shaw L. (1); Jones, Keith (1); Conner, W. Curtis (1)
 (1) Univ. Massachusetts, Amherst. MA
 (2) Brookhaven National Labs, Upton, N. Y.
- P-116 Initiation of Alkane Isomerization on Sulfated Zirconia Catalysts Studied by In Situ X-ray Absorption, UV-vis and IR Spectroscopy
 Presenter: Dr. Friederike Jentoft
 Author(s): Jentoft, Friederike C.; Klose, Barbara S.; Jentoft, Rolf E.; Ressler, Thorsten; Joshi, Pradnya; Chan Thaw, Carine
 Fritz Haber Institute, Max Planck Society, 14195 Berlin Germany
- P-117 Observation of the generation of active sites on Au/TiO_2 by in-situ XAS and FTIR
 Presenter: Harold Kung
 Author(s): Yang, Jeffrey H. (1); Henao, Juan (1); Wang, Ying M. (1); Raphulu, Mpfunzeni (2); Kung, Mayfair C. (1); Kung, Harold H. (1)
 (1) Northwestern University, Evanston, IL USA
 (2) University of Witwatersrand, Johannesburg South Africa
- P-118 Spectroscopic Evidence of the Supply of Reactive Oxygen during CO Oxidation Catalyzed by Gold Supported on Nanocrystalline CeO_2
 Presenter: Javier Guzman
 Author(s): Carretin, Silvio; Corma, Avelino
 Instituto de Tecnología Química, UPV-CSIC, Valencia, 46022 Spain
- P-120 Size and activity correlation of Au Catalysts by in situ EXAFS
 Presenter: Steven H. Overbury
 Author(s): Overbury, Steven H.; Mullins, David R.; Schwartz, Viviane; Yan, Wenfu; Dai, Sheng
 Oak Ridge National Laboratory, Oak Ridge, TN USA
- P-121 New approaches to identify the key parameter in sulfate formation on SO_x trapping materials
 Presenter: Hendrik Dathe
 Author(s): Dathe, Hendrik; Jentys, Andreas; Lercher, Johannes A.
 Technische Universität München, Department of Chemistry, Garching Germany



- P-122 Exploring the Molecular Structure of Dissolved Na- and K-Silicates
- Presenter: Istvan Halasz
Author(s): Halasz, Istvan; Li, Runbo; Agarwal, Mukesh; Miller, Neil
PQ Corporation, Conshohocken, PA 19428
USA
- P-123 In-Situ Nucleation, Growth and Composition Analysis of Nanoparticles in Ru Promoted Co/Al₂O₃ Catalyst
- Presenter: Peng Li
Author(s): Li, Peng (1); Liu, Jing-yue (2); Nag, Nabin (3); Crozier, Peter (1)
(1) Arizona State University, Tempe, AZ
USA
(2) Monsanto Company, St. Louis, MO USA
(3) Engelhard Corporation

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2005 NAM Posters Presentation - Tuesday Session

Topics: Surface Science, Environmental/Diesel, Alternative Sources of Hydrogen, Gas to Liquids and Hydrogenation/Dehydrogenation

Poster Number	Reference
P-128	<p>Iron Catalysts for Carbon Dioxide Hydrogenation</p> <p>Presenter: Marita Niemela Author(s): Niemela, Marita K.; Nokkosmaki, Milja I. VTT Processes, Espoo Finland</p>
P-129	<p>CH₄ Dehydroaromatization over Mo/HZSM-5: A Study of the Correlation between the Nature of Mo Species and Catalytic Activity</p> <p>Presenter: Victor Teixeira da Silva Author(s): Edosn, Rodrigues L. (1); Maria, Souza I. (2); José Luiz, Monteiro F. (9); Fabio, Noronha B. (1); Victor, Teixeira da Silva (2) (1) Instituto Nacional de Tecnologia, Rio de Janeiro, RJ Brazil (2) Dpto. de Eng. Química, Instituto Militar de Engenharia, Rio de Janeiro, RJ Brazil</p>
P-130	<p>Fischer-Tropsch Synthesis: Effect of Pressure and H₂/CO Feed Ratios on Co/Niobia Catalyst</p> <p>Presenter: Martin Schmal Author(s): Souza, Carlos D.; Schmal, Martin Federal University of Rio de Janeiro - NUCAT-PEQ-COPPE, Rio de Janeiro -RJ Brazil</p>
P-131	<p>The Role of Support on Partial Oxidation of Methane</p> <p>Presenter: Fabio B. Passos Author(s): Oliveira, Elaine R. (1); Passos, Fabio B. (1); Mattos, Lisiane V. (2); Noronha, Fabio B. (2) (1) Universidade Federal Fluminense, Niteroi, RJ Brazil (2) Instituto Nacional de Tecnologia, Rio de Janeiro Brazil</p>
P-132	<p>Promotion Effects of Fischer-Tropsch Components on the Performances of ADM Catalyst for Higher Alcohols Synthesis</p> <p>Presenter: Cheng Yang Author(s): Li, Debao; Yang, Cheng; Qi, Huijie; Li, Wenhui; Zhong, Bing Institute of Coal Conversion, Taiyuan, Shanxi China</p>
P-133	<p>The Effect of Promoters on Raney Fe Catalyst for Gas to Liquid Process</p> <p>Presenter: Yijun Lu Author(s): Lu, Yijun (1); Zhou, Peizheng (1); Lepinski, Jim (2) (1) Hydrocarbon Technologies, Inc., Lawrenceville, New Jersey USA (2) Headwaters Inc., South Jordan, Utah USA</p>
P-134	<p>Methane Activation by Halogenation</p> <p>Presenter: Deniz Uner Author(s): Degirmenci, Volkan (1); Yilmaz, Aysen (2); Uner, Deniz (1) (1) Chemical Engineering Department Middle East Technical University, Ankara Turkey (2) Chemistry Department Middle East Technical University, Ankara Turkey</p>
P-135	<p>Catalytic Partial Oxidation of Methane to Syngas at Elevated Pressures</p> <p>Presenter: Maxim Lyubovsky Author(s): Lyubovsky, Maxim; Roychoudhury, Subir; LaPierre, Rene Precision Combustion, Inc, North Haven, Connecticut USA</p>
P-136	<p>Utility of Kinetic Model in Monitoring Catalyst Deactivation in Fischer-Tropsch Synthesis</p> <p>Presenter: Xiaodong Zhan Author(s): Zhan, Xiaodong; Robota, Heinz J.; Arcuri, Kym B. Syntroleum Corporation, Tulsa, Oklahoma USA</p>
P-137	<p>The Performance of Co/Nb₂O₅ Catalysts in the Fischer-Tropsch Synthesis in an Agitated Slurry Reactor</p> <p>Presenter: Ricardo Reis Soares Author(s): Fabiano, Demian P.; Castro, Gustavo P.; Meza, Lucas P.; Spigao Jr., Antonio S.; Tokumoto, Miriam S.; Napolitano, Marcos N. Federal University of Uberlandia, Uberlandia, MG Brasil</p>
P-138	<p>The Role of Surface Acidic Properties of Fischer-Tropsch Catalysts for Production of Olefins from CO₂</p> <p>Presenter: Suk-Jin Choung Author(s): Lee, Sung-Chul (1); Sung, Jun-Yong (2) (1) KyungHee University, Yongin, Kyeonggi Korea (2) Yonsei University, Seoul Korea</p>

P-139 The Reduction-Oxidation Properties of Co-precipitated Co/Zr Catalysts and their FTS Performance in Slurry Phase

Presenter: Cheng Yang
Author(s): Litao, Jia; Cheng, Yang; Jiangang, Chen; Yuhua, Sun
Institute of Coal Chemistry, Taiyuan, Shanxi China

P-140 Deactivation of Co/SiO₂ Catalyst in Fischer-Tropsch Synthesis

Presenter: Cheng Yang
Author(s): Wei, Zhou; Cheng, Yang; Jiangang, Chen; Yuhua, Sun
Institute of Coal Chemistry, Taiyuan, Shanxi China

P-141 A Study of CO Adsorbed on Different Zirconia Polymorphs Supported Copper and Cobalt Catalysts

Presenter: Cheng Yang
Author(s): Zhongyi, Ma; Cheng, Yang; Wei, Wei; Jiangang, Chen; Yuhua, Sun
Institute of Coal Chemistry, Taiyuan, Shanxi China

P-142 Selective Catalytic Reduction of NO_x with Kerosene Based Fuels as Reductants

Presenter: Christopher L. Marshall
Author(s): Marshall, Christopher L.; Castagnola, Mario J.
Argonne National Laboratory, Argonne, IL 60439-4837 USA

P-143 Spectroscopic Characterization of NO_x Species on Na⁻, and Ba-Y, FAU Zeolites

Presenter: Janos Szanyi
Author(s): Szanyi, Janos (1); Kwak, Ja Hun (1); Burton, Sarah S. (1); Rodriguez, Jose A. (2); Peden, Charles H. (1)
(1) Pacific Northwest National Laboratory, Richland, WA USA
(2) Brookhaven National Laboratory, Upton, NY USA

P-144 Influence of Pt Loading on the Efficiency of NO_x Storage and Reduction (NSR) Catalysts

Presenter: Jim Anderson
Author(s): Anderson, James A.; Liu, Zhaoqing
University of Aberdeen, Aberdeen Scotland, UK

P-145 An FTIR/TPD Study on the Adsorption of NO₂ and CO on Pt-BaO/Al₂O₃ NSR Catalysts: The Effect of Ba-Loading

Presenter: Tamas Szailer
Author(s): Szailer, Tamas; Szanyi, Janos; Kwak, Ja Hun; Charles, Peden
Chemical Sciences Division, Pacific Northwest National Laboratory, Richland, WA USA

P-146 Selective Catalytic Reduction of NO_x over Ag-Alumina Catalyst Using Fuel Component Hydrocarbons

Presenter: Steven Schmiege
Author(s): Schmiege, Steven J.; Lee, Jong-Hwan; Oh, Se H.
General Motors R&D Center, Warren, MI USA

P-147 Improved NO_x Reduction over the Staged Ag/Al₂O₃ Catalyst System

Presenter: Jong-Hwan Lee
Author(s): Lee, Jong-Hwan; Schmiege, Steven J.; Oh, Se H.
General Motors R&D Center, Warren, MI USA

P-148 Development of SO₂ Trap Materials for Preventing Poisoning of NO_x Traps

Presenter: Robert Ukropec
Author(s): Ukropec, Robert; Ross, Julian
University of Limerick, Limerick Republic of Ireland

P-149 The Pt-Ba Interaction in the Mechanism of Adsorption of NO_x Species over Pt-Ba/Al₂O₃ LNT Catalysts

Presenter: Isabella Nova
Author(s): Nova, Isabella; Castoldi, Lidia; Lietti, Luca; Tronconi, Enrico; Forzatti, Pio
Dipartimento Chimica, Materiali e Ingegneria Chimica "Giulio Natta" Politecnico di Milano, Milano Italy

P-150 Reaction Studies on Pt/BaO/Al₂O₃ for NO_x Storage/Reduction Catalysts

Presenter: Kwak, Ja Hun
Author(s): Kwak, Ja Hun; Kim, Do Heui; Szanyi, Janos; Szailer, Tamas; Peden, Charles H.
Pacific Northwest National Laboratory, Richland, WA USA

P-151 NO Oxidation over Alumina-Supported Pt-Pd and Pt-Rh

Presenter: Robert J. Kudla
Author(s): Kudla, Robert J.; Jen, Hung-Wen; Schmitz, Peter J.; Goralski Jr., Christian T.; McCabe, Robert W.; Graham, George W.
Ford Motor Company, Dearborn, MI USA

P-152 HCN + NO₂ Reaction on Na⁻ and Ba-Y: *in-situ* FT-IR and TPD/TPR

Presenter: Kwak, Ja Hun
Author(s): Kwak, Ja Hun; Szanyi, Janos; Peden, Charles H.
Pacific Northwest National Laboratory, Richland, WA USA

P-153 A Study of NO₂ Adsorption on BaO-Al₂O₃

Presenter: Gong Zhou
Author(s): Zhou, Gong; Luo, Tian; Gorte, Raymond J.
University of Pennsylvania, Philadelphia U.S.

Poster Presentations - Tuesday

- P-154 A Condensed Kinetic Modeling of NO Oxidation on Pt-Containing Monolith Catalysts
 Presenter: Rob Disselkamp
 Author(s): Disselkamp, R.S.; Tonkyn, R.G.; Peden, C.H.F.
 Pacific Northwest National Laboratory, Richland, WA 99354 USA
- P-155 Sensitivity and Principal Component Analysis of Microkinetic Mean-Field Models for Catalytic Systems
 Presenter: Jonas Sjöblom
 Author(s): Sjöblom, Jonas (1); Creaser, Derek (1); Abdulhamid, Hussam (2); Skoglundh, Magnus (2); Andersson, Bengt (1)
 (1) Dept. of Chemical Engineering and Environmental Science, Chalmers University of Technology, SE-412 96 Gothenburg Sweden
 (2) Competence Centre for Catalysis, Chalmers University of Technology, SE-412 96 Gothenburg Sweden
- P-156 Reformer-Assisted Lean NO_x Catalysis for Emissions Control
 Presenter: Chris Aardahl
 Author(s): Aardahl, Chris; Rozmiarek, Bob; Rappe, Ken; Tran, Diana; Herling, Darrell
 Pacific Northwest National Laboratory, Richland, WA USA
- P-157 Closed Loop Temperature Control of a Diesel Active Lean NO_x Aftertreatment System for NO_x Conversion
 Presenter: Maruthi Devarakonda
 Author(s): Devarakonda, Maruthi N.; Parker, Gordon G.; Johnson, John H.
 Michigan Tech, Houghton, MI 49931 USA
- P-158 Kinetic Considerations of Hydrogen Assisted Hydrocarbon Selective Catalytic Reduction over Ag/Al₂O₃
 Presenter: Kalle Arve
 Author(s): Arve, Kalle; Backman, Henrik; Klingstedt, Fredrik; Murzin, Dmitry
 Åbo Akademi University, Turku/Åbo Finland
- P-159 Diesel Soot Oxidation Over Supported Vanadia Catalysts
 Presenter: Jian Liu
 Author(s): Liu, Jian; Zhao, Zhen; Xu, Chunming
 University of Petroleum, 102249, Changping, Beijing China
- P-160 Nanometric La-K-Mn-O Perovskite-type Complex Oxides: Highly Active Catalysts for Diesel Soot Combustion under Loose Contact Conditions
 Presenter: Zhen Zhao
 Author(s): Zhao, Zhen; Wang, Hong; Xu, Chunming; Liu, Jian
 University of Petroleum, 102249, Changping, Beijing China
- P-161 Overview of Diesel Soot Abatement Technologies; Challenges and Limitations for the Future
 Presenter: Michiel Makkee
 Author(s): Makkee, Michiel
 Delft University of Technology, Reactor & Catalysis Engineering, NL 2628 BL Delft The Netherlands
- P-162 Development of Thermal Stable CeO₂-Based Catalysts for Diesel Soot Oxidation
 Presenter: Michiel Makkee
 Author(s): Bueno-Lopez, Augustin; Krishna, Krish; Makkee, Michiel; Moulijn, Jacob A.
 Delft University of Technology, Reactor & Catalysis Engineering, NL 2628 BL Delft The Netherlands
- P-163 Mechanistic Studies of the Reduction of Stored NO_x on BaO/Al₂O₃-based Lean-NO_x Traps
 Presenter: Chuck Peden
 Author(s): Tonkyn, R.G.; Disselkamp, R.S.; Peden, C.H.F.
 Pacific Northwest National Laboratory, Richland, WA USA
- P-164 Evaluation of Reaction Condition Effects on Diesel Soot Combustion on Mo/Al₂O₃ Catalyst
 Presenter: Professor Martin Schmal
 Author(s): Leocadio, Isabela C. (1); Braun, Silvana (2); Schmal, Martin (1)
 (1) PEQ/COPPE/UFRJ, Rio de Janeiro, RJ Brazil
 (2) Pontificia Universidade Catolica, Rio de Janeiro, RJ Brazil
- P-165 System Design and Demonstration for Characterization of Thermal Transients in Catalysts
 Presenter: Kenneth G. Rappe
 Author(s): Aardahl, Christopher L.; Hopkins, Derek F.; Anheirer, Norm C.; Holladay, Jamie D.; Bauman, Nathan N.
 Pacific Northwest National Laboratory, Richland, WA 99352 United States
- P-166 Stability of Ba,K/CeO₂ Catalyst during Diesel Soot Combustion: Effect of Temperature, Water and Sulfur Dioxide
 Presenter: Carlos Querini
 Author(s): Peralta, Maria A.; Milt, Viviana G.; Cornaglia, Laura C.
 UNL-CONICET, Santa Fe Argentina

- P-167 Urea Decomposition and Storage under Light-Duty Diesel Conditions
 Presenter: John Storey
 Author(s): Storey, John M.; Sluder, Scott; Lewis, Sam A.; Lewis, Linda A.
 Oak Ridge National Laboratory, Oak Ridge, TN USA
- P-168 Deactivation Mechanisms of Model Lean NO_x Traps
 Presenter: Todd J. Toops
 Author(s): Toops, Todd J.; Smith, David B.; Parks, James E.; Partridge, William P.
 Oak Ridge National Laboratory, Knoxville, TN USA
- P-169 Catalytic oxidation of carbon monoxide: Effect of drying methods on activity and FTIR spectra
 Presenter: Dr. Anil C. Banerjee
 Author(s): Koley, Dipankar; Okoso-Amaa, Ekua
 Texas A&M University-Commerce, Commerce, TX USA
- P-170 Highly Reliable 64-Channel Sequential & Parallel Tubular Reactor System for High-Throughput-Screening of DeNO_x Catalysts
 Presenter: Seong Ihl Woo
 Author(s): Oh, Kwang Seok; Woo, Seong Ihl
 Korea Advanced Institute of Science and Technology, Guseong-dong, Yuseong-gu, Daejeon Korea
- P-171 Selective Catalytic Reduction of NO_x in Lean-burn Engine Exhaust over Pt/SBA-15 Catalyst
 Presenter: Suk-Jin Choung
 Author(s): Kim, Dong-Jin (1); Kim, Jun-Woo (1); Cho, Ja-Khung (1); Lee, Sung-Chul (1); Kang, Misook (2); Choung, Suk-Jin (1)
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 (2) Industrial Liaison Research Institute, KyungHee University, Yongin, Gyeonggi 449-701 South Korea
- P-172 Catalytic Combustion of Diesel Soot over CeO₂-based Materials: Promotion Effect of Alkali and Transition Metals.
 Presenter: Eleonora Aneggi
 Author(s): Aneggi, Eleonora; Dolcetti, Giuliano; De Leitenburg, Carla; Trovarelli, Alessandro
 Dipartimento di Scienze e Tecnologie Chimiche - Università di Udine, Udine Italy
- P-173 Superior Thermal Stability of V₂O₅/TiO₂/WO₃/SiO₂ Based Catalysts Modified with Rare -Earths
 Presenter: Marzia Casanova
 Author(s): Casanova, Marzia (1); Trovarelli, Alessandro (1); Scherzmanz, Karl (2); Begsteiger, Irene (9)
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 (2) Dept. Chemistry R&D, Treibacher Industrie AG, A-9330-Althofen Austria
- P-174 NO Selective Catalytic Reduction over Ag Supported Catalysts: Effect of Catalyst Preparation on Activity and Selectivity
 Presenter: Dan Hancu
 Author(s): Hancu, Dan; Male, Jonathan; Soloveichik, Grigorii L.; Lemmon, John P.; Wood, Benjamin R.; Grocela-Rocha, Teresa
 General Electric Global Research, Niskayuna, NY 12301 USA
- P-176 Nanostructure Effects Upon Soot Oxidation
 Presenter: Randy L. Vander Wal
 Author(s): Tomasek, Aaron J.
 The NCMR c/o NASA-Glenn, Cleveland, Ohio USA
- P-177 Rapid Aging Of Lean NO_x Traps Using High Temperature Lean-Rich Thermal Cycling
 Presenter: Bruce G. Bunting
 Author(s): Bunting, Bruce G. (1); Toops, Todd J. (1); More, Karren L. (1); Nguyen, Ke (2); Gopinath, Ajit (2)
 (1) Oak Ridge National Laboratories, Knoxville, TN USA
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- P-178 On the Inhibition of Diesel Oxidation Catalysts by Sulfur Oxides
 Presenter: Tilman Beutel
 Author(s): Beutel, Tilman (1); Dettling, Joseph (1); Hollobaugh, Dustin (1); Brungard, Nancy (1); Liu, Xincheng (1); Daniell, Wayne (2)
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- P-179 Reppe Reaction Catalyzed by Soluble Rhodium Complexes
 Presenter: Alvaro J. Pardey
 Author(s): Pardey, Alvaro J. (1); Uzcátegui, Gabriela (1); Hung-Low, Fernando (1); Rivas, Angel B. (1); Ortega, Marisol (1); Longo, Clementina (2)
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- P-180 Exploiting Pt-Sn Alloys for Selective Hydrogenation of 1,3-Butadiene
 Presenter: Bruce Koel
 Author(s): Zhao, Haibo
 University of Southern California, Los Angeles, CA USA
- P-181 Kinetics Study of the Hydrodechlorination of Chlorobenzene by Immobilized Copper Catalyst
 Presenter: Marisol Ortega Cruces
 Author(s): Ortega, Marisol (1); Morillo, Briseida (1); Alvarez, Juan (1); Pardey, Alvaro (1); Longo, Clementina (2)
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 (2) Facultad de Farmacia, Universidad Central de Venezuela, Caracas Venezuela
- P-182 Leaching Resistance of Precious Metal Powder Catalysts
 Presenter: Chen Baoshu
 Author(s): Tim, Pohlmann; Jaime, Morrow L.; Baoshu, Chen
 Degussa Corp., Calvert City, KY USA
- P-183 Metal Dispersion and Distribution in Pd-Based PTA Catalysts
 Presenter: Francesco Pinna
 Author(s): Pinna, Francesco (1); Menegazzo, Federica (1); Signoretto, Michela (1); Pernicone, Nicola (2)
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- P-184 Pore Size Effects on Catalytic Activity of Palladium on Activated Carbon Catalysts used for Cbz Deprotection Reactions
 Presenter: Konrad Moebus
 Author(s): Moebus, Konrad; Dunn, Tracy D.; Chen, Baoshu
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- P-185 Enantioselective Hydrogenation of Ethyl Pyruvate in Toluene in the Presence of Rigid Alkaloids
 Presenter: Jozsef L. Margitfalvi
 Author(s): Margitfalvi, József L.; Tálas, Emilia
 Institute of Surface Chemistry and Catalysis, Chemical Research Center, Budapest Hungary
- P-186 Preparation of Highly Dispersed Nickel Hydrogenation Catalysts
 Presenter: Santosh K. Gangwal
 Author(s): Gangwal, Santosh K.; Nelson, Thomas O.; Subramani, Velu
 Research Triangle Institute, Res. Tri. Pk., NC 27709 USA
- P-187 Carbon Nanofibers with High Bulk Density as Catalyst Support Material
 Presenter: Harry Bitter
 Author(s): van der Lee, Martijn; Winter, Ferry; Bezemer, Leendert; van Dillen, Jos; de Jong, Krijn; Bitter, Harry
 Utrecht University, Utrecht The Netherlands
- P-188 Kinetic Study of Ammonia Synthesis over Ru/C Catalyst
 Presenter: Ilenia Rossetti
 Author(s): Rossetti, Ilenia; Fomi, Lucio; Pernicone, Nicola
 Dip. di Chimica Fisica ed Elettrochimica - Università degli Studi di Milano, Milano Italy
- P-189 Solvent-free Selective Hydrogenation of 2-Butene-1,4-diol over Structured Carbon-Fiber Catalyst
 Presenter: Lioubov Kiwi-Minsker
 Author(s): Kiwi-Minsker, Lioubov; Joannet, Eric; Renken, Albert
 LGRC-ISIC-EPFL, Lausanne Switzerland
- P-190 Liquid Phase Hydrogenation Kinetics of Isooctenes
 Presenter: Deepyaman Seth
 Author(s): Seth, Deepyaman; Sarkar, Amitava; Ng, Flora T.; Rempel, Garry L.
 University of Waterloo, Waterloo, Ontario Canada
- P-191 Methanation of CO₂ and CO over Ni and Co Incorporated MCM-41 Catalysts
 Presenter: Guoan Du
 Author(s): Du, Guoan; Wang, Chuan; Lim, Sangyun; Yang, Yanhui; Pfefferle, Lisa; Haller, Gary L.
 Yale University, New Haven, CT USA
- P-192 Supported Rhodium Complexes on Highly Dehydroxylated MgO and Zeolite NaY: Synthesis and Characterization
 Presenter: Ann Liang
 Author(s): Bhirud, Vinesh A.; Liang, Ann J.; Gates, Bruce C.
 University of California at Davis, Davis, CA United States
- P-193 Deactivation Behavior of Nb-Modified Pd/SiO₂ Catalyst in the Selective Hydrogenation of Acetylene
 Presenter: Sang Heup Moon
 Author(s): Ahn, In Y.; Kim, Woo J.; Moon, Sang H.
 Seoul National University, Seoul Korea
- P-194 Effect of Nitric Acid Pretreatment on the Properties of Activated Carbon and Supported Palladium Catalysts
 Presenter: Xiaonian Li
 Author(s): Luo, Xiongjun; Li, Xiaonian; Ma, Lei; Lu, Chunshan; Li, Jiayun; Liu, Huazhang
 Hangzhou, Zhejiang China

- P-195 Selective Hydrogenation of Ethylene and Acetylene on Zeolite-Supported Bimetallic Catalysts
Presenter: Wei Huang
Author(s): Huang, Wei; Lobo, Raul F.; Chen, Jingguang G.
University of Delaware, Newark Delaware USA
- P-197 Optimal Reactor Design and Operation for Parallel Testing of Hydrogenation Catalysts
Presenter: Dorit Wolf
Author(s): Wolf, Dorit; Seebald, Steffen; Panster, Peter
DEGUSSA, Hanau-Wolfgang Germany
- P-198 Elementary Steps for Hydrodechlorination Reactions on Pd Catalysts: Understanding Reactivity and Selectivity
Presenter: Fabio H. Ribeiro
Author(s): Chen, Nan (1); Ito, Larry N. (2); Barbosa, Luis A. (9); Ribeiro, Fabio H. (1)
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- P-199 Methanol Dehydration Over Acidic Supported WO_3 Catalysts
Presenter: Taejin Kim
Author(s): Kim, Taejin; Wachs, Israel E.
Lehigh University, Bethlehem, PA U.S.A
- P-200 Mesostructured Silicate as Palladium-Catalysts Support for the Semi-Hydrogenation of Phenylacetylene and 1-Phenyl-1-Hexyne.
Presenter: Norman Mauricio Marin Astorga
Author(s): Marin-Astorga, N (1); Pecchi, G (1); Pinnavaia, T J. (2); Reyes, P (1)
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(2) Department of chemistry, Michigan State University, East Lansing, MI 48824-1322 USA
- P-201 The Hydrogenation of Nitrobenzene and Nitrosobenzene to Aniline: A New Mechanism
Presenter: David Jackson
Author(s): Gelder, Elaine A. (1); Jackson, S. David (1); Lok, C. Martin (2)
(1) Department of Chemistry, The University, Glasgow, G12 8QQ Scotland
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- P-202 Liquid-phase Semihydrogenations of Alkynes on Pd-Montmorillonite Catalysts with Controlled Pd Particle Size
Presenter: Agnes Mastalir
Author(s): Mastalir, Agnes; Kiraly, Zoltan
University of Szeged, H-6720 Szeged, Dom ter 8 Hungary
- P-203 Acetylene Hydrogenation on Bimetallic Pd-Ag Nanoparticles
Presenter: Neetha Khan
Author(s): Khan, Neetha A.; Shaikhutdinov, Shamil K.; Freund, Hans-Joachim
Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin Germany
- P-204 Hydrogen Production from Crude Glycerol
Presenter: Ajay K. Dalai
Author(s): Kulkarni, Mangesh G.; Thiruchitrabalam, V. ; Dalai, Ajay K.; Bakshi, Narendra
University of Saskatchewan, Saskatoon, Saskatchewan Canada
- P-205 Hydrogen Production through Partial Oxidation of Ethanol on Pt/Ce_xZr_(1-x)O₂ Catalysts
Presenter: Fábio Bellot Noronha
Author(s): Mattos, Lisiane V.; Noronha, Fábio B.
National Institute of Technology, Rio de Janeiro, Rio de Janeiro Brazil
- P-207 Hydrogen Storage Systems Using Recycling Liquid Organic Hydrides
Presenter: Dimos E. Tsakiris
Author(s): Tsakiris, Dimos E.; Garforth, Arthur A.; Cresswell, David L.
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- P-208 Hydrogen Production from Biomass in Supercritical Water
Presenter: Rong Zhang
Author(s): Zhang, Rong; Ren, Hui; Sun, Dongkai; Bi, Jicheng
Rong Zhang Hui Ren Dongkai Sun and Jicheng Bi, Taiyuan, Shanxi Province P. R. China
- P-209 Reforming of Oxygenates for Hydrogen Production: Reactivity of Ethylene Glycol on Bimetallic Surfaces
Presenter: Orest Skoplyak
Author(s): Skoplyak, Orest; Barteau, Mark A.; Chen, Jingguang G.
University of Delaware, Newark, DE US
- P-210 High-Throughput Screening of Carbide and Nitride Based Methanol Steam Reforming Catalysts
Presenter: Worajit Setthapun
Author(s): Setthapun, Worajit; Bej, Shyamal K.; Thompson, Levi T.
University of Michigan, Ann Arbor, MI USA

- P-212 Hydrogen Formation in the Ethanol Reforming on Supported Noble Metal Catalysts
 Presenter: Andras Erdohelyi
 Author(s): Erdohelyi, Andras (1); Rasko, Janos (2); Toth, Mariann (1); Domok, Marta (1)
 (1) Institute of Solid State and Radiochemistry University of Szeged, Szeged Hungary
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- P-213 Alumina-Supported Pt Catalysts Modified with Cerium for Steam Reforming of CH₄
 Presenter: Benecildo Amauri Riguetto
 Author(s): Santos, Ana Cláudia (1); Riguetto, Benecildo (2); Damyanova, Sonia (9); Marques, Clelia Mara (2); Bueno, José Maria (1)
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- P-214 Evaluation of catalyst performance for low temperature production of hydrogen from glycerol and sugars
 Presenter: Jacques Monnier
 Author(s): Monnier, Jacques; Tourigny, Guy; Sulimma, Hardi; Pelletier, Luc
 CANMET Energy Technology Centre - Ottawa, Ottawa, Ontario Canada
- P-215 An Alternative Technique to Produce Hydrogen from a Biodiesel Production Residue: The Glycerol
 Presenter: Victoria Laura Barrio
 Author(s): Iriondo, A. (1); Cambra, J.F. (1); Arias, P.L. (1); Güemez, M.B. (1); Sanchez-Sanchez, M.C. (1); Navarro, R.M. (1)
 (1) School of Engineering, Bilbao Spain
 (2) Institute of Catalysis and Petrochemistry (ICP-CSIC), Madrid Spain
- P-216 Exploiting Rh(acac)(CO)₂ CVD as Alternative Route to Rh₄(CO)₁₂ Impregnation for Synthesis of Highly Active CH₄-CPO Catalysts.
 Presenter: Vladimiro Dal Santo
 Author(s): Mondelli, Cecilia (1); Psaro, Rinaldo (1); Recchia, Sandro (1)
 (1) ISTM CNR, Milano Italy
 (2) Dip. C.I.M.A., Università di Milano, Milano Italy
- P-217 Chromium Based Sol-gel Catalyst for Low CO Hydrogen Production by Methanol Steam Reforming (Dr.)
 Presenter: Zhijun Jia
 Author(s): Jia, Zhijun (1); Lane, Alan (1)
 (1) Brigham Young University, Provo, UT US
 (2) University of Alabama, Tuscaloosa, AL US
- P-218 A New Class of High Temperature Support for H₂ and Synthesis Gas Generation - Alumina-Rich Pure Calcium-Aluminate
 Presenter: Shizhong (Jason) Zhao
 Author(s): Zhao, Shizhong J.; Hu, XD; Born, Marc; Ladebeck, Jurgen
 Sud-Chemie Inc., Louisville, Kentucky USA
- P-219 Reaction Conditions for Hydrogen Production via Steam Reforming of Methanol using Bimetallic Carbide Catalyst
 Presenter: Dady B. Dadyburjor
 Author(s): Shao, Huifang; Ma, Wenping; Kugler, Edwin L.; Dadyburjor, Dady B.
 WestVirginia University, Morgantown WV 26506-6102 USA
- P-220 Indirect Partial Oxidation of Ethanol using Ni-Cu Supported Catalysts
 Presenter: Ricardo Reis Soares
 Author(s): Furtado, Andreia; Dias, Rafael; Soares, Ricardo
 Federal University of Uberlandia, Uberlandia Brasil
- P-221 Hydrogen Production from Lignite in Supercritical Water
 Presenter: Leming cheng
 Author(s): Cheng, Leming (1); Rong, Zhang (1); Jicheng, Bi (1)
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 (2) Graduate School of the Chinese Academy of Sciences, Beijing P.R.China
- P-222 Hydrogen Production from Catalytic Coal Gasification
 Presenter: Felipe Guzman Montanez
 Author(s): Montanez, Felipe G.; Fisher II, James C.; Singh, Rahul; Chuang, Steven S.
 The University of Akron, Akron, Ohio USA
- P-225 Performance of Supported Bimetallic Nitride for Ammonia Decomposition
 Presenter: Xiaonian Li
 Author(s): Li, Xiaonian; Luo, Xiongjun; Lu, Chunshan; Ma, Lei; Liu, Wucan; Xiang, Yizhi
 Li Xiaonian, Hangzhou, Zhejiang China

- P-226 High-Throughput Experimentation and Microkinetic Modeling of Ammonia Decomposition on Ru Supported Catalysts
 Presenter: Benjamin Feist
 Author(s): Dionisios, Vlachos G.; Jochen, Lauterbach
 University of Delaware, Newark, Delaware USA
- P-227 Oxidative Reforming of Bio -ethanol over CeO₂-Supported Ni-Rh Bimetallic Catalysts for Hydrogen Production
 Presenter: Junichiro Kugai
 Author(s): Kugai, Junichiro; Velu, Subramani; Song, Chunshan
 Pennsylvania State University, University Park, PA 16802 USA
- P-228 Reactions of Vinyl Chloride on alpha-Cr₂O₃ (1012)
 Presenter: Mary A. Minton
 Author(s): Minton, Mary A. (1); Ma, Qiang (1); Cox, David F. (1); Mullins, David R. (2)
 (1) Virginia Tech, Blacksburg, VA USA
 (2) Oak Ridge National Laboratory, Oak Ridge, TN USA
- P-229 Formation, Structure, and Properties of Hydrogen Species on MoS₂ and NiMoS Catalyst Surface: A DFT Study
 Presenter: Mingyong Sun
 Author(s): Sun, Mingyong (1); Nelson, Alan E. (1); Adajaye, John (2)
 (1) University of Alberta, Edmonton, AB Canada
 (2) Syncrude Canada Ltd., Edmonton, AB Canada
- P-230 A DFT Study of Surface Structures of MoS₂- and WS₂- Based Catalysts
 Presenter: Mingyong Sun
 Author(s): Sun, Mingyong (1); Nelson, Alan E. (1); Adjaye, John (2)
 (1) University of Alberta, Edmonton, AB Canada
 (2) Syncrude Canada Ltd., Edmonton, AB Canada
- P-231 Modeling the Effects of Modifier Elements on the Acidity of Alumina
 Presenter: Mingyong Sun
 Author(s): Sun, Mingyong (1); Nelson, Alan E. (1); Adjaye, John (1)
 (1) University of Alberta, Edmonton, AB Canada
 (2) Syncrude Canada Ltd., Edmonton, AB Canada
- P-232 Selective Hydrogenation of Acrolein on Bimetallic Surfaces
 Presenter: Luis E. Murillo
 Author(s): Murillo, Luis E.; Chen, Jingguang G.
 University of Delaware, Newark, DE US
- P-233 The Skeletal Isomerization of 1-Butene over Natural Ferrierite Catalysts
 Presenter: Gyorgy Onyestyak
 Author(s): Onyestyák, György; Lónyi, Ferenc; Valyon, József
 Institute of Surface Chemistry and Catalysis, Chemical Research Center, Hungarian Academy of Sciences, Budapest Hungary
- P-234 Subsurface Oxygen Formation on Pt(100): Experiments and Modeling
 Presenter: Noah McMillan
 Author(s): McMillan, Noah; Snively, Christopher; Lauterbach, Jochen
 University of Delaware, Newark, DE USA
- P-235 Mechanistic Investigation of Higher Olefin Epoxidation: Styrene Oxide and 1-Epoxy-3-Butene
 Presenter: Michael Enever
 Author(s): Enever, Michael C.; Barteau, Mark A.
 University of Delaware, Newark, DE USA
- P-236 Heterocyclic Organonitrogen Adsorption and Decomposition on Mo(110): Experimental and DFT
 Presenter: Wa'el Abdallah
 Author(s): Abdallah, Wa'el A.; Gray, Murray R.; Nelson, Alan E.
 University of Alberta, Edmonton, Alberta, T6G 2G6 Canada
- P-237 Mechanistic Studies of the Reaction of Organosulfur Compounds on Metal Oxide Single Crystal Surfaces
 Presenter: Barr Halevi
 Author(s): Halevi, Barr; Vohs, John M.
 University Of Pennsylvania, Philadelphia, PA 19104 USA
- P-238 Inverse Gas Chromatography Studies of Inorganic Porous Solids
 Presenter: Daniel Burnett
 Author(s): Naderi, Majid (1); Thielmann, Frank (1); Burnett, Daniel J. (2); Brown, David R. (9)
 (1) Surface Measurement Systems, London UK
 (2) Surface Measurement Systems, Allentown, PA USA
- P-239 Direct In Situ Observations of Sintering of Pd/Al₂O₃ Catalysts in Different Atmospheres
 Presenter: Qing Xu
 Author(s): Liu, R.-J. (1); Smith, C. M. (2); Blackson, J. (9); Salaita, G (9); Crozier, P. A. (1)
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- P-240 In-Situ Ni Nanoparticle Synthesis on High Surface -Area Titania
 Presenter: Peng Li
 Author(s): Li, Peng (1); Liu, Jing-yue (2); Nag, Nabin (3); Crozier, Peter A. (1)
 (1) Arizona State University, Tempe, AZ USA
 (2) Monsanto Company, St. Louis, MO USA
 (3) Engelhard Corporation
- P-241 High Surface Area Nitrides: New Base Catalysts
 Presenter: Randolph C. McGee
 Author(s): McGee, Randolph C.; Bej, Shyamal K.; Thompson, Levi T.
 University of Michigan, Ann Arbor, MI U.S.A.
- P-242 Applications of Calvet Adsorption Calorimetry in the Characterization of Catalysts
 Presenter: Le Parlouër
 Author(s): Le Parlouër, Pierre (1); Auroux, Aline (2); Chan, Ignatius (9)
 (1) Thermal Consulting, Caluire France
 (2) Research Institute on Catalysis, Villeurbanne France
- P-243 Effect of Hydration on Brønsted Acidity of Solid Acid Catalysts
 Presenter: Apoorva Kulkarni
 Author(s): Kulkarni, Apoorva; Muggli, Darrin
 University of North Dakota, Grand forks, North Dakota USA
- P-244 Enzyme Immobilization using Nano Self-Assembly Applied to Silicon Microreactors
 Presenter: James Palmer
 Author(s): Elmore, Bill B.
 Louisiana Tech University, Ruston, LA USA
- P-245 Mixing In Structured Microchemical Devices
 Presenter: Soumitra Deshmukh
 Author(s): Deshmukh, Soumitra R.; Vlachos, Dion G.
 University of Delaware, Newark, DE USA
- P-246 Design and Performance of Catalytic Microburners
 Presenter: Soumitra Deshmukh
 Author(s): Norton, Daniel G. (1); Wetzell, Eric D. (2); Vlachos, Dion G. (1)
 (1) University of Delaware, Newark, DE USA
 (2) Army Research Laboratory, Aberdeen Proving Ground, MD USA
- P-247 Fast Gas Sampling with Integrated Capillary Leak on Silicon Fabricated Microreactors
 Presenter: Ulrich Quaade
 Author(s): Quaade, Ulrich J.; Jensen, Søren; Hansen, Ole
 Technical Universitu of Denmark, Kgs. Lyngby Denmark
- P-248 Compact Glass Micro Reactor for Hydrogen Purification
 Presenter: Samrat Mukherjee
 Author(s): Mukherjee, Samrat; Hatalis, Miltiadis K.; Kothare, Mayuresh V.
 Lehigh University, Bethlehem, Pa USA
- P-249 Use of a Novel Fourier Transform Mass Spectrometer for the Rapid and Specific Screening of Catalysts
 Presenter: Ken Gallaher
 Author(s): Gallaher, Kenneth L.; Davis, Dean V.
 Siemens Applied Automation,
- P-250 Conversion of Biomass Derived Syngas to DME and Transportation Fuels Using a Microchannel Reactor
 Presenter: Jianli Hu
 Author(s): Hu, Jianli; Wang, Yong; Cao, Chunshe; Li, Shari; Jones, Susanne B.; Elliott, Douglas C.
 Pacific Northwest National Laboratory, Richland, WA U.S.A
- P-251 Selective Decomposition of Methanol by a New Catalytic Microreactor
 Presenter: Kazuhiro Mae
 Author(s): Kazuhiro, Mae; Taisuke, Maki; Noriyuki, Kitao; Hiroyuki, Kono
 Kyoto University, Kyoto Japan

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Topics: Selective Oxidation, Petroleum Processing, Fuel Cell – Fuel Processing, Nanotechnology, Supercritical Media, Novel Reaction Engineering, Photocatalysis and Membrane Reactors

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P-256	<p>Influence of Al Amounts on the Acidity of the Mesostructured Aluminosilicates from Zeolitic Precursors and Sodium Silicates</p> <p>Presenter: Junlin Zheng Author(s): Zheng, Junlin; Zhai, Shangru; Yang, Dongjiang; Wu, Dong; Sun, Yuhua State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences, Taiyuan, Shanxi P. R. China</p>
P-257	<p>Hydroprocessing of Bitumen-Derived Light Gas Oils: Modelling of Aromatic Hydrogenation and Diesel Selectivity</p> <p>Presenter: Ajay K. Dalai Author(s): Boakye, Abena O. (1); Dalai, Ajay K. (1); Adjaye, John (2) (1) University of Saskatchewan, Saskatoon, Saskatchewan Canada (2) Syncrude Edmonton Research Centre, Edmonton, Alberta Canada</p>
P-258	<p>Nickel-etiochlorophyllin Hydrodemetallation Kinetics over Sulfided Mo/gamma-Al₂O₃-TiO₂ Catalysts</p> <p>Presenter: Rogelio Cuevas Author(s): Garcia, Antonio (1); Cuevas, Rogelio (1); Ramirez, Jorge (1); Ancheyta, Jorge (1); Vargas, Alejandra (1) (1) UNICAT, Facultad de Química, UNAM, Distrito Federal México (2) Instituto Mexicano del Petróleo, Distrito Federal México</p>
P-259	<p>Effect of Nitrogen Content on the Hydrodenitrogenation of LCO over NiMo/Al₂O₃ Catalyst</p> <p>Presenter: Hong Yang Author(s): Chen, Jinwen (1); Szykarczuk, Renata (1); Nakajima, Nobumasa (2); Ring, Zbigniew (1) (1) The National Centre for Upgrading Technology, Alberta Canada (2) Cosmo Oil, Saitama-Ken Japan</p>
P-260	<p>Influence of Linear Butenes in the Dimerization of Isobutene</p> <p>Presenter: Maija Honkela Author(s): Honkela, Maija; Krause, Outi Helsinki University of Technology, Espoo Finland</p>
P-262	<p>N-pentane Isomerization on FAU/EMT Intergrowth Modified with Pt Dispersed by Solid State Ion Exchange</p> <p>Presenter: Freddy Imbert Author(s): Belandría, Lynda N. (1); González, Carmen S. (2); Hernández, Juan C. (1); Uzcátegui, Alvaro (1); González, Gema (2); Imbert1, Freddy (1) (1) Universidad de Los Andes, Mérida, Mérida Venezuela (2) Instituto Venezolano de Investigaciones Científicas, Caracas Venezuela</p>
P-263	<p>Effect of the Thermic Treatment on the Acidic and Catalytic Properties of the Systems ZrO₂-SO₄²⁻ and ZrO₂-PO₄³⁻</p> <p>Presenter: Juan Manuel Hernández Enríquez Author(s): Hernández Enríquez, Juan Manuel (1); Cortez Lajas, Luz Aracely (1); García Alamilla, Ricardo (1); Melo Banda, José Aaron (1); Castillo Mares, Alfredo (1); Gacía Serrano, Luz Arcelia (2) (1) Instituto Tecnológico de Ciudad Madero, Ciudad Madero, Tamaulipas México (2) Instituto Mexicano del Petróleo, México, D.F. México</p>
P-264	<p>Isomerization of n-Hexane with Catalysts Based on ZrO₂-MoO₃ and ZrO₂-WO₃</p> <p>Presenter: Luz Aracely Cortez Lajas Author(s): Cortez Lajas, Luz Aracely (1); Hernández Enríquez, Juan Manuel (1); García Alamilla, Ricardo (1); Melo Banda, José Aaron (1); Castillo Mares, Alfredo (1); Gacía Serrano, Luz Arcelia (2) (1) Instituto Tecnológico de Ciudad Madero, Ciudad Madero, Tamaulipas México (2) Instituto Mexicano del Petróleo, México, D.F. México</p>
P-265	<p>Propane Aromatization over ZSM-5 based Catalysts</p> <p>Presenter: Gowri Krishnamurthy Author(s): Bhan, Aditya; Hsu, Shuo-Huan; Krishnamurthy, Balachandra; Delgass, W. Nicholas; Caruthers, James; Blau, Gary Purdue University, West Lafayette, IN USA</p>
P-266	<p>Low Temperature Removal of Basic and Non-Basic Organonitrogen Compounds for Refinery Applications</p> <p>Presenter: Nora Yap Author(s): Yap, Nora; Hopkins, P D.; Turbeville, Wayne Süd-Chemie Inc., Louisville, KY USA</p>

- P-267 MCM41 Mesostructured Materials with Polymeric Carbon
 Presenter: MELO BANDA JOSE AARON
 Author(s): REYES DE LA TORRE, ADRIANA (1); MELO BANDA, JOSE AARON (1); TERRES ROJAS, EDUARDO (2); DOMINGUEZ ESQUIVEL, JOSE MANUEL (2); LOPEZ PEREZ, LUIS (2); TORRES RODRIGUEZ, MIGUEL (2)
 (1) INSTITUTO TECNOLOGICO DE CD. MADERO, CD. MADERO TAMAULIPAS MEXICO
 (2) UAM-A, MEXICO, D.F. MEXICO
- P-268 Alkylation of Benzene with Propylene over Mesoporous Materials MCM-41 and 48 Types
 Presenter: JOSE AARON MELO BANDA
 Author(s): GOMEZ RUIZ, MONICA (1); CASTELAN GOVEA, JUAN SALVADOR (1); MELO BANDA, JOSE AARON (1); LOPEZ SALINAS, ESTEBAN (2); HERNANDEZ CORTEZ, JOSE GONZALO (2); SILVA RODRIGO, REBECA (1)
 (1) INSTITUTO TECNOLOGICO DE CD. MADERO, CD. MADERO TAMAULIPAS MEXICO
 (2) INSTITUTO MEXICANO DEL PETROLEO, MEXICO, D.F. MEXICO
- P-269 The Influence of Calcination Temperature and W Loading on the Environment of Si in ZrO_2-SiO_2 and WO_3/ZrO_2-SiO_2 Catalysts
 Presenter: Sebastien Lecarpentier
 Author(s): Lecarpentier, Sébastien; van Gestel, Jacob; Thomas, Karine; Houalla, Marwan
 Laboratoire de Catalyse et Spectrochimie, Caen France
- P-270 Characterization and Catalytic Activity in the Isomerization of n-Hexane of Mono- and Bimetallic Pd-Pt/ $ZrO_2-Al_2O_3-WO_x$ Prepared by Sol-Gel
 Presenter: Arturo Barrera Rodriguez
 Author(s): Barrera, Arturo (1); Montoya, Jose Ascencion (1); Viniegra, Margarita (2); Navarrete, Juan (1)
 (1) Instituto Mexicano del Petroleo, Mexico D.F. Mexico
 (2) Univesidad Autonoma Metropolitana - Iztapalapa, Mexico D.F. Mexico
- P-271 The Impact of a Novel Preparation Method on the Catalytic Behavior of the Pt/ Al_2O_3 and Pt-Sn/ Al_2O_3 -Sol-Gel Catalysts for n-Heptane Reforming
 Presenter: Ignacio Contreras
 Author(s): Ignacio, Contreras 1.; Smith, Santiago 1.; Gustavo, Pérez 1.; Tomás, viveros 1.
 Universidad Autónoma Metropolitana, México, D.F. México
- P-272 Competition of Cracking and Hydrogen Transfer Reactions in the REUSY -ZSM-8 System
 Presenter: Francisco Hernandez-Beltran
 Author(s): Rodriguez, Andrea (1); Garcia de León, Roberto (1); Guzmán-Castillo, María de Lourdes (1); Pearce, John (2)
 (1) Instituto Mexicano del Petróleo, Mexico City Mexico
 (2) Tricat Industries, Inc., Hunt Valley, MD USA
- P-273 Selective Recovery of Transition Metals from Spent Petroleum Catalysts
 Presenter: Jamal N. Al-Saeedi
 Author(s): Al-Saeedi, Jamal N.; Al-Jimaz, Adel S.; Al-Rashed, Mohsen H.
 PAAET, College of Technological Studies, Department of Chemical Engineering, B.O. Box 42325, 70654 Kuwait
- P-274 Sulphated Mordenite -Zirconium Catalysts for n-Butane Isomerization
 Presenter: Dilgam Tagiyev
 Author(s): Tagiyev, Dilgam B.; Starikov, Roman V.; Imanova, Arzu A.
 Institute of Petrochemical Processes of the Azerbaijan , NAS, Baku Azerbaijan
- P-275 High-Surface-Area Titania and Titania - Silica Aerogels as Photocatalysts for Removal of VOCs
 Presenter: Dong Jin Suh
 Author(s): Suh, Dong Jin (1); Kim, Won-II (1); Park, Tae-Jin (1); Hong, In-Kwon (2)
 (1) Korea Institute of Science and Technology, Seoul Korea
 (2) Dankook University, Seoul Korea
- P-276 Preparation of Silica-Titania Composite Nanoparticles by Sol-Gel-Hydrothermal Method
 Presenter: Zhijie Li
 Author(s): Li, Zhijie (1); Hou, Bo (1); Xu, Yao (1); Wu, Dong (1); Sun, Yuhua (1)
 (1) State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences, Taiyuan, Shanxi China
 (2) Graduate School of the Chinese Academy of Sciences, Beijing China
- P-277 Synthesis of Water-Soluble ZnS Nanocrystals and Their Photocatalytic Degradation of Dye Pollutants
 Presenter: Junping Li
 Author(s): Li, junping; Xu, yao; Wu, Dong; Sun, Yuhua
 Institute of Coal Chemistry, Taiyuan, Shangxi P. R. China
- P-278 Efficient and Steady Photocatalytic Hydrogen Evolution over $Pt^x-/TiO_{2-y}By$ Catalysts from the Bittern of Salt Lakes Rich in Borate
 Presenter: Gongxuan LU
 Author(s): Jin, Zhiliang; Lu, Gongxuan
 Lanzhou Institute of Chemical Physics, Lanzhou, Gansu, 730000 PR China

- P-279 The Photocatalytic Effects of TiO₂ Based Catalysts Modified with Transition Metals using Sol-Gel and Hydrothermal Methods for Removal of VOC in Air

Presenter: Won Mook Lee
Author(s): Lee, Won M.; Lee, Chul W.; Hong, Suk B.
Division of Chemical Engineering & Applied Chemistry, Hanbat National University, Dukmyung dong, Yuseong ku, Daejeon 305-7 South Korea
- P-280 Pronounced Photocatalytic Activity of Nanosized TiO₂ Composite Structures in Amorphous State

Presenter: Alexey A. Evstratov
Author(s): EVSTRATOV, Alexey (1); CHIS, Cristian (1); GAUDON, Pierre (1); DUCOURANT, Bernard (2)
(1) Ecole des Mines d'Alès, Alès, Gard (30) FRANCE
(2) Université Montpellier II, Montpellier, Herault (34) FRANCE
- P-281 BTX Photocatalytic Oxidation in Gas Phase TiO₂/Al₂O₃ as Catalysts

Presenter: Ranulfo Osvaldo González Paredes
Author(s): González Paredes, Ranulfo Osvaldo (1); Sandoval Robles, José Guillermo (2); Ramos Galván, Claudia Esmeralda (2); García Alamilla, Ricardo (2); Melo Banda, José Aaron (2); R. Moctezuma, Edgar (9)
(1) Universidad Veracruzana, Poza Rica, Veracruz México
(2) Instituto Tecnológico de Ciudad Madero, Ciudad Madero, Tamaulipas México
- P-282 Chlorophenols Degradation by Photocatalysis. Effect of the Temperature of Degradation

Presenter: María de la Luz Arreaga Gaona
Author(s): Arreaga Gaona, María de la Luz (2); González Paredes, Ranulfo Osvaldo (2); Sandoval Robles, José Guillermo (1); Ramos Galván, Claudia Esmeralda (1); García Alamilla, Ricardo (1)
(1) Instituto Tecnológico de Ciudad Madero, Ciudad Madero, Tamaulipas México
(2) Universidad Veracruzana, Poza Rica, Veracruz México
- P-283 Visible Light Photocatalysis with Platinized Rutile TiO₂ for Aqueous Organic Oxidation

Presenter: Bo Sun
Author(s): Sun, Bo; Boolchand, Punit; Smirniotis, Panagiotis G.
University of Cincinnati, Cincinnati, OH USA
- P-284 Structural Data and Oxygen Storage Capacity of New Materials in the Ce-Nd-Zr-O System

Presenter: Jana Mikolova
Author(s): Mikulova, Jana; Rossignol, Sylvie; Kappenstein, C; Duprez, D
LACCO UMR6503, Poitiers France
- P-285 Effect of the Support in Niobium Based Aerogel Catalysts for the Selective Oxidation of Olefins with Hydrogen Peroxide

Presenter: Giorgio Strukul
Author(s): Somma, Filippo; Canton, Patrizia; Strukul, Giorgio
University of Venice, Venezia Italy
- P-286 Activation of Oxygen and Methane over Yttrium-stabilized Zirconia for Synthesis Gas Production

Presenter: Jianjun Zhu
Author(s): Zhu, Jianjun (1); Jan, van Ommen G. (1); Henny J. M., Bouwmeester (2); Leon, Lefferts (1)
(1) University of Twente, Enschede The Netherlands
(2) University of Twente, Enschede The Netherlands
- P-287 Nanostructured V_xO_y Model Catalysts for Partial Oxidation Reactions

Presenter: Christian Hess
Author(s): Hess, Christian; Wild, Ute; Schlögl, Robert
Fritz-Haber-Institute, Berlin Germany
- P-288 Effect of V+Mo Coverage in the Catalytic Behaviour of Supported Catalysts for Propane Oxidation (POP)

Presenter: Luis J. Alemany
Author(s): Guerrero, M.O.; Herrera, M.C.; Larrubia, M.A.; Alemany, L.J.
University, Málaga SPAIN
- P-289 New Synthetic Strategy for the Synthesis of Faujasite-Encapsulated RuO₂ Nanoclusters

Presenter: Bi-Zeng Zhan
Author(s): Zhan, Bi-Zeng (1); White, Mary Anne (2)
(1) University of California at Berkeley, Berkeley, California US
(2) Dalhousie University, Halifax, Nova Scotia Canada
- P-290 Fe-ZSM-5 Catalysts for Phenol Hydroxylation

Presenter: Aida Luz Villa
Author(s): Villa, Aida L.; Caro, Cesar A.; Montes de C., Consuelo
Universidad de Antioquia, Medellin, Antioquia Colombia

Poster Presentations - Wednesday

- P-291 Using Na to Change Mo/SnO₂ Catalyst Characteristics .
 Presenter: Lucia Gorenstin Appel
 Author(s): Silva, Isaque (1); Braun, Silvana (1); Appel, Lucia (2)
 (1) PUC-Rio, Rio de Janeiro, RJ Brazil
 (2) INT, Rio de Janeiro, RJ Brazil
- P-293 Cr-TUD-1: A New Catalyst for Selective Photo-Oxidation of Propane
 Presenter: Mohamed S. Hamdy
 Author(s): Hamdy, Mohamed (1); Mul, Guido (1); Berg, Otto (2); Maschmeyer, Thomas (9); Moulijn, Jacob (1)
 (1) Reactor and catalysis engineering, Delft Chem. Tech., TU Delft, Delft The Netherlands
 (2) Leiden Institute of Chemistry, Leiden University, Leiden The Netherlands
 (3) The University of Sydney
- P-294 Effect of Solvents on the Liquid Phase Epoxidation of 1-Hexene with Titanium Silicalite-1
 Presenter: Chen Ramachandran
 Author(s): Ramachandran, Chen E.; Zhao, Qi; Broadbelt, Linda J.; Snurr, Randall Q.
 Northwestern University, Evanston, Illinois USA
- P-295 Gas-Phase Epoxidation of Propylene over Small Gold Ensembles on TS-1
 Presenter: Bradley Taylor
 Author(s): Taylor, Bradley (1); Cumaranatunge, Lasitha (1); Lauterbach, Jochen (2); Delgass, W. Nicholas (1)
 (1) Purdue University, School of Chemical Engineering, West Lafayette, IN USA
 (2) University of Delaware, Department of Chemical Engineering, Newark, DE USA
- P-296 Nanoparticles of Gold on Graphite Produced by dc Magnetron Sputtering and the Oxidation of Glycerol
 Presenter: Gabriel Veith
 Author(s): Veith, Gabriel M. (1); Villa, Alberto (2); Prati, Laura (2); Lupini, Andrew R. (1); Pennycook, Stephen J. (1); Dudley, Nancy J. (1)
 (1) Oak Ridge National Laboratory, Oak Ridge, Tennessee USA
 (2) Universita' di Milano, Milano Italy
- P-297 Vanadia -TUD-1: Performance in CO- and Propane Oxidation
 Presenter: Wei Wei
 Author(s): Wei, Wei (1); Hamdy, Mohamed S. (1); Mul, Guido (1); Jansen, Jacobus C. (2); Moulijn, Jacob A. (1)
 (1) Reactor and Catalysis Engineering, DelftChemTech, Delft University of Technology, Delft The Netherlands
 (2) Ceramic Membrane Centre "The Pore", DelftChemTech, Delft University of Technology, Delft The Netherlands
- P-298 Structural Requirements, Kinetics, and Mechanism for the Selective Oxidation of Dimethylether to Formaldehyde on Small Oxide Domains
 Presenter: Patricia Cheung
 Author(s): Cheung, Patricia W.; Liu, Haichao; Iglesia, Enrique
 UC Berkeley, Berkeley, CA USA
- P-299 Electrical Conductivity in Oxide Catalysts
 Presenter: Helen VanBenschoten
 Author(s): VanBenschoten, Helen; Brandon, Nigel
 Imperial College London, London UK
- P-300 The Spreading of Vanadium Oxide over Titania (Anatase) in Doped V/Ti/O-Based Catalysts for o-Xylene Oxidation: The Identification of Interactions between Components
 Presenter: Fabrizio Cavani
 Author(s): Cavani, Fabrizio (1); Cortelli, Carlotta (1); Frattini, Alessandra (1); Panzacchi, Barbara (1); Ravaglia, Valerio (1); Trifirò, Ferruccio (1)
 (1) Dipartimento di Chimica Industriale e dei Materiali, Univ of Bologna, Bologna Italy
 (2) Lonza SpA, Scanzorosciate (BG) Italy
- P-301 The Effect of Modifiers on Supported V₂O₅/Al₂O₃ Catalysts: Methanol Oxidation and Propane ODH
 Presenter: Goutam Deo
 Author(s): Mitra, Brishti (1); Wachs, Israel E. (2); Deo, Goutam (9)
 (1) University Institute of Engineering and Technology, CSJM University, Kanpur, Uttar Pradesh INDIA
 (2) Lehigh University, Bethlehem, PA USA
- P-302 Molybdena Local Structural Determination in Different Environments: Aqueous Solutions, Bulk Mixed Oxides and Supported M₂O_x Catalysts
 Presenter: Hanjing tian
 Author(s): Tian, Hanjing; Wachs, Israel E.
 Lehigh University, Bethlehem, PA 18015

- P-303 A Transient Analysis Study (Multi-Track) of the Surface Reactions of the Mo-V-Te-Nb-O Catalysts for Propane Oxidation to Acrylic Acid
 Presenter: Guido Mul
 Author(s): Mul, Guido (1); VanderLinden, Bart (1); Moulijn, Jacob A. (1); Gulians, Vadim V. (2)
 (1) Delft University of Technology, Delft The Netherlands
 (2) University of Cincinnati, Cincinnati, OH USA
- P-304 In situ Environmental Electron Microscopy of Dynamic Butane at the Atomic Scale: Novel Microstructures and Reactivity
 Presenter: Pratibha L. GAI
 Author(s): GAI, Pratibha L. (1); Kourtakis, Kostantinos (1)
 (1) DuPont, Central Research, Experimental Station, Wilmington, DE 19880-0356 USA
 (2) DuPont, Central Research, Experimental Station, Wilmington DE 19880-0356 USA
- P-305 Microporous Titanosilicate ETS-10 as a Lewis Acidic Catalyst for Hydrogen Transfer Reactions
 Presenter: Bilge Yilmaz
 Author(s): Akata, Burcu; Yilmaz, Bilge; Sacco, Albert, Jr.
 Northeastern University, Boston, MA USA
- P-306 The Effect of the Amount of Solvent in the Epoxidation of Limonene over PW Amberlite
 Presenter: Rolando Barrera Zapata
 Author(s): Barrera Zapata, Rolando; Villa de P., Aída Luz; Montes de Correa, Consuelo
 Universidad de Antioquia, Medellín, Antioquia Colombia
- P-307 Effect of the Addition of Cesium on the Morphology of Silver Catalysts
 Presenter: Martin Schmal
 Author(s): Carvalho, Marta A. (1); Passos, Fabio B. (2); Schmal, Martin M. (1)
 (1) NUCAT/PEQ/COPPE/UFRJ, Rio de Janeiro-RJ Brazil
 (2) DEQ/UFF, Niterói-RJ Brazil
- P-308 The Use of Molybdenum for Improved Antimonate Crystallization
 Presenter: Bakul Pant
 Author(s): Dawson, Margie (1); Goodin, Mike (2); Pappas, George (1); Roberts, Ron (1); Tria, John (2); Tway, Cathy (1)
 (1) Solutia Inc., P.O. Box 711, Alvin, TX 77512-0711 USA
 (2) Solutia Inc., 3000 Old Chemstrand Road, Cantonment, FL USA
- P-309 Bromine free TEMPO Based Catalyst System for the Oxidation of Primary and Secondary Alcohols Using NaOCl as the Oxidant
 Presenter: R.L. Augustine
 Author(s): Augustine, R. L. (1); Tanielyan, S. K. (1); Prakash, I. (2); Furlong, K. (2); Hanley, J. (2)
 (1) Center for Applied Catalysis, Seton Hall University, South Orange, NJ USA
 (2) The NutraSweet Corp., Chicago, IL USA
- P-310 Accelerating Butane Oxidation Kinetics over VPO
 Presenter: G.S. Patience
 Author(s): Lorences, M J. (1); Patience, G S. (2); Cenni, R (3); Diaz, F (1); Cocca, J (1)
 (1) University of Oviedo, Oviedo, Asturias Spain
 (2) Ecole Polytechnique de Montreal, Montreal, Quebec Canada
 (3) Haldor-Tospoe
- P-311 Liquid Phase Oxidation of Benzyl Alcohol to Benzaldehyde on Cobalt Phthalocyanine Encapsulated on Alumina Pillared Clays
 Presenter: Veda Ramaswamy
 Author(s): Jagtap, Neelam; Ramaswamy, Veda
 National Chemical Laboratory, Pune India
- P-312 Catalysts for Hydrogen Production in Membrane Reactors
 Presenter: Paul van Beurden
 Author(s): van Beurden, Paul; Valster-Schiermeier, Sacha; van Delft, Yvonne; Dijkstra, Jan Wilco; Pex, Paul; van den Brink, Ruud
 ECN, Petten The Netherlands
- P-313 Competitive Transport through Zeolitic Membranes
 Presenter:
 Author(s): Tompsett, Geoffrey; Laurence, Robert; Capron, Laurent; Conner, Wm. Curtis; Auerbach, Scott
 University of Massachusetts, Amherst MA
- P-314 Supercritical alkylation of isobutane by butylenes and oligomerization of butylenes over solid acid catalysts
 alkylate increased at the higher I/O ratios. For instance, at I/O ratio of 14 it reached 60-70 wt%.
 Presenter: Victor I. Bogdan
 Author(s): Bogdan, Victor; Khelkovskaya - Sergeeva, Elena; Kazansky, Vladimir
 Zelinsky Institute of Organic Chemistry, RAS, Moscow Russia
- P-315 Microkinetic Modeling For Fuel Processing Leading To H₂
 Presenter: Ashish Mhadeshwar
 Author(s): Mhadeshwar, Ashish B.; Vlachos, Dionisios G.
 University of Delaware, Newark, DE 19716 USA

- P-316 Molybdenum Carbide as a Reforming Catalyst for Hydrogen Generation from Higher Hydrocarbons
 Presenter: Praveen Cheekatamarla
 Author(s): Cheekatamarla, Praveen K.; Thomson, William J.
 Washington State University, Pullman, WA USA
- P-317 Au Catalyzed Selective Oxidation of CO: Effect of Au Particle Size on Surface Reaction Parameters
 Presenter: James G. Goodwin, Jr.
 Author(s): Pansare, Sourabh (1); Sirijaruphan, Amornmart (2); Goodwin, James G. (1)
 (1) Clemson University, Clemson, SC USA
 (2) King Mongkut's University of Technology, Thonburi Thailand
- P-318 Heat-transfer Enhanced Steam Reforming Catalyst – Ni catalyst Washcoated on Metallic Monolith
 Presenter: Heon Jung
 Author(s): Jung, Heon (1); Yang, Jung Il (1); Ryu, Jae Hong (2); Lee, Kwan Young (2)
 (1) Korea Institute of Energy Research, Daejeon Republic of Korea
 (2) Korea University, Seoul Republic of Korea
- P-319 Steam reforming of methane over Ni/Al₂O₃: surface structure of promoted catalysts resistant to graphite formation
 Presenter: José Maria Correa Bueno
 Author(s): Bueno, José Maria Correa 1. (1); Parizotto, Natália Valenga 1. (1); Rocha, Kleper de Olive ira 1. (1); Marques, Clélia Mara Paula 1. (1); Damyanova, Sonia 2. (2)
 (1) Universidade Federal de Sao Carlos, Sao Carlos Brazil
 (2) Institute of Catalysis, Sofia Bulgaria
- P-320 Effects of Lanthanum on Catalytic Properties of Bimetallic Ni-Fe Catalysts for Hydrogen Generation via Ethanol Partial Oxidation
 Presenter: Gongxuan LU
 Author(s): Wang, Weiping; Lu, Gongxuan
 Lanzhou Institute of Chemical Physics, CAS, Lanzhou, 730000 PR China
- P-321 Steam Reforming of Ethanol over Sol-Gel-Synthesized Mixed Oxide Catalysts
 Presenter: Deniz Uner
 Author(s): Olcay, Hakan O. (1); Demir, Hilal (1); Seker, Erol (2); Uner, Deniz (1)
 (1) Chemical Engineering Department Middle East Technical University, Ankara Turkey
 (2) Chemical Engineering Department, Izmir Institute of Technology, Izmir Turkey
- P-322 Catalyst deactivation in a novel diesel fuel reformer
 Presenter: Martin Abraham
 Author(s): Goud, Sandeep (1); Abraham, Martin (1); Whittenberger, William (2)
 (1) University of Toledo, Toledo, OH 43606 USA
 (2) Catacel, Corp., Garrettsville, OH 44231 USA
- P-323 Low Temperature Water-gas Shift: Isotopic Tracer and Kinetic Isotope Effect Investigations over Pt/ceria
 Presenter: Gary Jacobs
 Author(s): Jacobs, Gary; Patterson, Patricia M.; Davis, Burtron H.
 University of Kentucky, Center for Applied Energy Research, Lexington, KY 40511 USA
- P-324 Developed of a lumped kinetic scheme of methane partial oxidation over a Rh/a-Al₂O₃ catalyst
 Presenter: Ivan Tavazzi
 Author(s): Tavazzi, Ivan; Beretta, Alessandra; Groppi, Gianpiero; Forzatti, Pio
 Politecnico di Milano, Milano Italy
- P-325 Autothermal Reforming of Propane over Pt/CeO₂ catalysts
 Presenter: Dady B. Dadyburjor
 Author(s): Das, Tapan K.; Bansode, Vijaya; Wright, James; Kugler, Edwin L.; Dadyburjor, Dady B.
 West Virginia University, Morgantown WV 26506-6102 USA
- P-326 Autothermal Reforming of Hydrocarbons into Hydrogen.
 Presenter: Maxim Lyubovsky
 Author(s): Lyubovsky, Maxim; Roychoudhury, Subir; LaPierre, Rene
 Precision Combustion, Inc, North Haven, CT USA
- P-327 Microchemical Systems for Portable Hydrogen Generation
 Presenter: Benjamin A. Wilhite
 Author(s): Wilhite, Benjamin A.; Weiss, Steven E.; Jackie, Ying Y.; Schmidt, Martin A.; Jensen, Klavs F.
 Massachusetts Institute of Technology, Cambridge, MA USA

- P-328 Novel Autothermal Reforming Process for Pure Hydrogen Production
 Presenter: Zhongxiang Chen
 Author(s): Chen, Zhongxiang; Elnashaie, Said
 Department of Chemical Engineering, Auburn University, Auburn, AL 36849 USA
- P-329 Preferential Oxidation of CO over Mixed Oxide Supported Au Catalysts
 Presenter: Susan M. Stagg-Williams
 Author(s): Morrow, Brian; Breid, Derek; Shah, Ritesh; Stagg-Williams, Susan
 University of Kansas, Lawrence, KS USA
- P-330 CPOX of CH₄ and Dodecane over Rh/Al₂O₃ and Ni-Ce/YSZ: Transient and Steady State IR and MS study
 Presenter: Rahul Singh
 Author(s): Singh, Rahul; Khatri, Rajesh A.; Chuang, Steven S.
 The University of Akron, Akron, OHIO USA
- P-331 Carbide and Nitride Supported Water Gas Shift Catalysts
 Presenter: Timothy E. King
 Author(s): King, Timothy E.; Bej, Shyamal K.; Thompson, Levi T.
 University of Michigan, Ann Arbor, MI United States
- P-332 Cold Plasma Catalyst Preparation of Cu-ZnO Catalyst for Steam Reforming of Methanol
 Presenter: Shigeru Kado
 Author(s): Kado, Shigeru (1); Sekine, Yasushi (3); Nozaki, Tomohiro (1); Okazaki, Ken (1); Lobban, Lance (2); Mallinson, Richard G. (2)
 (1) Tokyo Institute of Technology, Tokyo Japan
 (2) The University of Oklahoma, Norman, Oklahoma U.S.A.
 (3) Waseda University
- P-333 Oxidative steam reforming of bio-ethanol to hydrogen using Ni-based catalysts
 Presenter: (Jim) Sibudjing Kawi
 Author(s): Kawi, Sibudjing; Hidajat, Kus; Sun, Gebiao
 National University of Singapore, Singapore Republic of Singapore
- P-334 Diesel fuel processing for fuel cell auxiliary power units in heavy-duty trucks
 Presenter: Marita Nilsson
 Author(s): Nilsson, Marita (1); Pettersson, Lars J. (1); Lindström, Bård (2); Ekdunge, Per (2)
 (1) Nilsson, Marita and Pettersson, Lars J., Stockholm Sweden
 (2) Lindström, Bård and Ekdunge, Per, Gothenburg Sweden
- P-335 Adsorption of H₂/CO₂ on Cation Exchanged ZSM-5 Zeolites
 Presenter: Sang Kompiang Wirawan
 Author(s): Wirawan, Sang Kompiang; Creaser, Derek
 Department of Chemical Engineering and Environmental Science, Chalmers University of Technology, Göteborg Sweden
- P-336 A comparative study of the mechanism of the water gas shift reaction over Pt and Au catalysts
 Presenter: John Breen
 Author(s): Breen, John P. (1); Burch, Robbie (1); Reid, David (1); Tibiletti, Daniele (1); Goguet, Alexandre (1); Meunier, Frederic C. (1)
 (1) Queens University Belfast, Belfast UK
 (2) Johnson Matthey Technology Centre, Royston UK
 (3) World Gold Council
- P-337 The Nature of Surface Acidic Sites in Mixed Oxide Catalysts
 Presenter: Edward L Lee
 Author(s): Lee, Edward L.; Wachs, Israel E.
 Lehigh University, Bethlehem, PA USA
- P-338 Selective oxidation of CO in hydrogen-rich mixtures over CuO-CeO₂
 Presenter: Gabriela Diaz
 Author(s): Marquez, Yasser; Gómez-Cortés, Antonio; Arenas-Alatorre, Jesus; Díaz, Gabriela
 Instituto de Física, UNAM, Mexico DF Mexico
- P-339 Supported Gold Catalysts for Hydrogen Purification in Fuel Cell Applications
 Presenter: Alvaro Amieiro-Fonseca
 Author(s): Amieiro-Fonseca, Alvaro; Fisher, Janet; Thompsett, David
 Johnson Matthey, Sonning Common Berkshire United Kingdom
- P-340 Selective CO Oxidation on Low-Content Gold Catalysts
 Presenter: Sergio Gómez
 Author(s): Hernández, José A.; Pérez, Arturo; Fuentes, Gustavo A.; Gómez, Sergio A.
 Universidad Autónoma Metropolitana - Iztapalapa, Mexico city Mexico
- P-341 Precious metal water gas shift catalysts: Inhibition of methanation and aging
 Presenter: Wolfgang Ruettinger
 Author(s): Ruettinger, Wolfgang; Farrauto, Robert J.
 Engelhard Corporation, Iselin, NJ 08830 USA

- P-342 Relationship between Carbon Deposition and Sulfur Poisoning during Steam Reforming of Liquid Hydrocarbons over Rh-based Catalysts
 Presenter: James J. Strohm
 Author(s): Strohm, James J.; Zheng, Jian; Song, Chunshan
 The Energy Institute, The Pennsylvania State University, University Park, PA USA
- P-343 Treatment of MSU-S with NaAlO₂ Solution under Hydrothermal Conditions: Changes of Structural and Acidic Properties
 Presenter: Shangru Zhai
 Author(s): Shangru, Zhai; Junlin, Zheng; Dongjiang, Yang; Junping, Li; Dong, Wu; Yuhan, Sun
 Shangru Zhai, Taiyuan China
- P-344 Efficient Catalysts for the Oxidative Dehydrogenation of Alkanes: Sol-Gel Synthesis of High Surface Area Li/MgO Catalysts
 Presenter: Seshan K.
 Author(s): Trionfetti, Cristiano; Babich, Igor V.; Seshan, K.; Lefferts, Leon
 Twente University, Enschede The Netherlands
- P-345 Measure of Gold Active Sites by Quantitative Chemisorption Data on Au/TiO₂, Au/Fe₂O₃ and Au/CeO₂
 Presenter: Francesco Pinna
 Author(s): Pinna, Francesco (1); Menegazzo, Federica (1); Signoretto, Michela (1); Bocuzzi, Flora (2); Chiorino, Anna (2); Manzoli, Maela (2)
 (1) Università di Venezia, Venezia 30123 Italy
 (2) Università di Torino, Torino 10125 Italy
- P-346 Generation and Characterization of Catalytic Nanocomposite Materials of Highly Isolated Iron Nanoparticles Dispersed in Clays
 Presenter: ZHOU CHUNHUI
 Author(s): Tong Dongshen, ; Zhou Chunhui, ; Ge Zhonghua, ; LI Xiaonian, ; Zheng Yifan, ; Wang Fan,
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- P-347 Effect of Moisture on the Active Sites of Cu-CeO₂ Catalysts for CO Oxidation
 Presenter: Weijun Zhang
 Author(s): Zhang, Weijun; PalDey, Sohini; Deevi, Sorajini
 Philip Morris USA, Richmond, VA USA
- P-348 Unique Adsorption and Catalytic Behavior of H₂ and CO over Hollow Silica-Ir, -Rh, -Ru, or -Pd Nanocomposites Prepared by RM Technique
 Presenter: Shuichi NAITO
 Author(s): NAITO, Shuichi; MINOSHIMA, Koji; MIYAO, Toshihiro
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- P-349 Synthesis and Characterization of Nano-Crystalline Bulk Metal Oxide Catalysts
 Presenter: Jamal N. Al-Saeedi
 Author(s): Al-Saeedi, Jamal N. (1); Al-Daihani, Meshal K. (1); Ali, Sami H. (2)
 (1) College of Technological Studies, Chemical Engineering Department, Shuwaikh Kuwait
 (2) College of Engineering, Chemical Engineering Department, Khaldyah Kuwait
- P-350 Reactivity of Supported Platinum Nanoclusters Studied by In Situ GISAXS
 Presenter: Randall Winans
 Author(s): Winans, Randall E.; Vajda, Stefan; Lee, Byeongdu; Seifert, Soenke; Tikhonov, George Y.; Tomczyk, Nancy A.
 Argonne National Laboratory, Argonne, IL USA
- P-351 Ruthenium Hydrated Oxide Catalyst Supported on the Nanotubular TiO₂ in the Reaction of Alcohols Oxidation with Oxygen
 Presenter: Dmitry Bavykin
 Author(s): Bavykin, Dmitry V. (1); Lapkin, Alexei V. (1); Plucinski, Pawel (1); Walsh, Frank C. (2)
 (1) University of Bath, Bath United Kingdom
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- P-352 Au/TiO₂ Catalyst Prepared by Impregnation Method for Low Temperature Oxidation of H₂ and CO
 Presenter: Venu Arunajatesan
 Author(s): Arunajatesan, Venu (1); Viandt, Mathias (2); McIntosh, ShaRee L. (1); Cruz, Marisa (1); Renneke, Roman F. (1); Chen, Baoshu (1)
 (1) Degussa Corporation, Calvert City, KY USA
 (2) Degussa AG, Hanau Germany
- P-353 Nanotechnologies of the Catalysts Obtaining for the Stages of Vitamins Semiproducts Synthesis.
 Presenter: Sulman Esther
 Author(s): Sulman, Esther (1); Matveeva, Valentina (1); Nicoshvili, Linda (1); Bronstein, Luydmila (2); Tsvetkova, Irina (9); Valetsky, Petr (9)
 (1) Tver Technical University, Tver Russia
 (2) Indiana University, Bloomington USA

P-354 Improved Activity and Stability of Ni/Al₂O₃ Catalysts for Benzene Hydrogenation via RF Plasma Modifications

Presenter: Ben Jang
Author(s): Ratanatawanate, Chalita; Macias, Monyka; Zhu, Ai-Min; Jang, Ben
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P-355 Surface Chemistry of Nano-Structured Gold Water Gas Shift Catalysts

Presenter: Chang Hwan Kim
Author(s): Kim, Chang H.; Thompson, Levi T.
University of Michigan, Ann Arbor, Michigan 48109 USA

P-356 Preparation of Palladium Containing Nano-sized Carbon Hollow Spheres for Abatement of Formaldehyde

Presenter: Chul Wee Lee
Author(s): Lee, Jae Kwang (1); Park, Yong-Ki (1); Kim, Hee Young (1); Park, Seung-Kyu (2); Lee, Chul Wee (1)
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P-357 Preparation and Characterization of a New Class of Highly Dispersed Vanadium Oxide Catalysts on Mesoporous Silica

Presenter: Jose Herrera
Author(s): Kwak, Ja Hun; Herrera, Jose E.; Hu, Jian Zhi; Wang, Yong; Peden, Charles H.
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P-358 Design of Redox Properties of Nanostructured CeO₂-ZrO₂ Mixed Oxides by Surface Etching

Presenter: Jan Kaspar
Author(s): Di Monte, Roberta (1); Kaspar, Jan (1); Bradshaw, Heather (2); Norman, Colin (2)
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P-359 Preparation, Interconversion, Characterization and Reactivity of Nanosized Molybdenum Carbide Catalysts

Presenter: Dady B. Dadyburjor
Author(s): Clark, Christopher H. (1); Kugler, Edwin L. (1); Hanson, Jonathan C. (2); Song, Zhen (2); Cai, Tanhong (2); Hrbek, Jan (2)
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P-360 Palladium Nanoparticles in Pore-extended Mesoporous Silica as Heterogeneous Catalyst for Suzuki Coupling Reaction

Presenter: Dharani dhar Das
Author(s): Das, Dharani D.; Sayari, Abdelhamid
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P-361 Preparation and Characterization of High Surface Area VOHPO₄•0.5H₂O

Presenter: Juan M. Salazar
Author(s): Salazar, Juan M.; Hohn, Keith L.
Kansas State University, Manhattan, KS U.S.A.

P-362 Synthesis and Characterization of Highly Ordered Ni-MCM-41 for Synthesizing SWNT and CO₂/CO Methanation

Presenter: Yanhui Yang
Author(s): Yang, Yanhui; Chen, Yuan; Du, Guoan; Lim, Sangyun; Wang, Chuan; Haller, Gary L.
Yale University, New haven, CT USA

P-363 Nickel-Tungsten Bimetallic Sulfide Nanostructured Catalysts

Presenter: Amelia Olivas Sarabia
Author(s): Olivas, Amelia (1); Yacamán, Miguel J. (2); Flores, Eric (1); Alonso, Gabriel (3); Fuentes, Sergio (1)
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(2) Department of Chemical Engineering, University of Texas-Austin, Austin Texas 78712 USA
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P-364 ?-Al₂O₃-Supported Trirhenium Rafts: Spectroscopic and Microscopic Characterization

Presenter: Vinesh Bhirud
Author(s): Bhirud, Vinesh A.; Gates, Bruce C.
University of California, Davis, CA 95616 USA

P-365 Preparation of Copper-Ceria Catalysts for CO Oxidation

Presenter: sarojini deevi
Author(s): deevi, sarojini; sundar, rangaraj philip morris usa, richmond, va usa

P-366 Gold and Iron Species Interaction in Au/Fe/Zeolites

Presenter: Nina Bogdanchikova
Author(s): Smolentseva, Elena (1); Bogdanchikova, Nina (2); Simakov, Andrey (2); Gurin, Valerij (9); Avalos, Miguel B. (2); Tuzovskaya, Inga (1)
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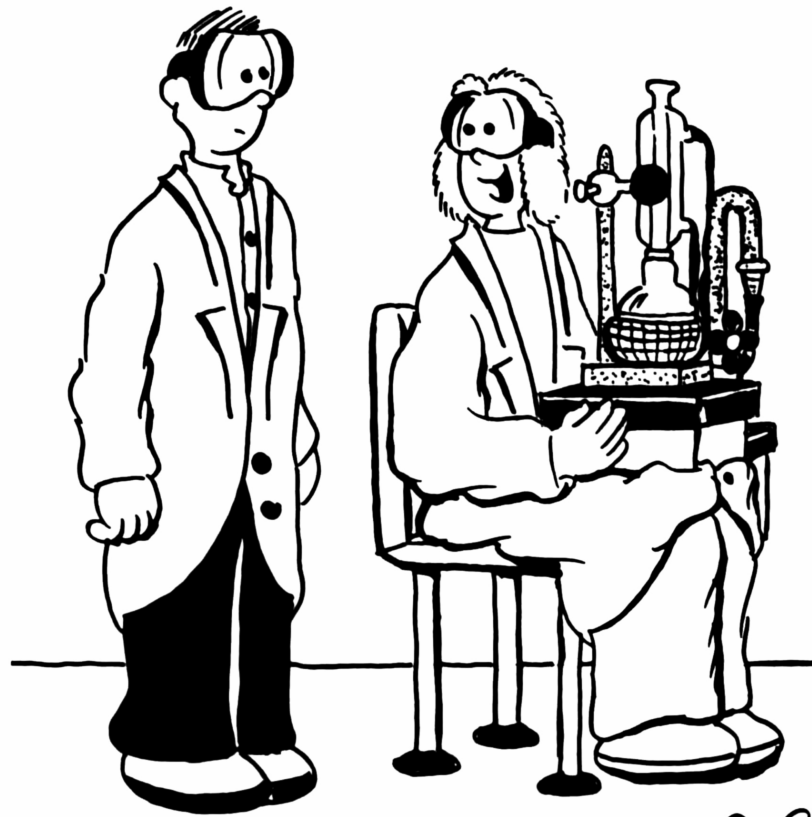
- P-367 CO Oxidation over Cu-Mordenites with Different Si/Al Molar Ratio
 Presenter: Andrey Simakov
 Author(s): Simakov, Andrey (1); Petranovskii, Vitalii (1); Marzke, Robert F. (2); Rivas, Fernando (3); Ulloa, Rafael (3); Pestryakov, Alexey (3)
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 (2) Arizona State University, Tempe, AZ USA
 (3) Instituto Politecnico Nacional, Departamento de Fisica
- P-368 The Effect of the Support on the Catalytic Properties of Pt for the Oxidation of CO in the Presence and Absence of H₂
 Presenter: Christopher T. Williams
 Author(s): Chin, Soo Y.; Alexeev, Oleg S.; Amiridis, Michael D.
 Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208 USA
- P-369 Preparation and Characterization of Mesoporous Tinatium and Zirconium Mixed and Supported Oxides On Silica
 Presenter: René Gerardo Rodríguez Avendaño
 Author(s): Rodríguez, Rene G. (1); Montoya, J. Ascensión (2); De los Reyes, J. Antonio (1); Viveros, Tomás (1)
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 (2) INSTITUTO MEXICANO DEL PETROLEO, DISTRITO FEDERAL MEXICO
- P-370 Towards Supported MgO Systems with Exceptional High Temperature Stability
 Presenter: Larry Murrell
 Author(s): Murrell, Larry (1); Wachs, Israel (1); Suib, Steve (1); Javier, Garces (1)
 (1) Lehigh University, Bethelhem, PA USA
 (2) University of Connecticut, Storrs, CT USA
- P-371 Advantages of Mixed Acetone-water Sol Slurries for Preparation of Unique Materials
 Presenter: Larry Murrell
 Author(s): Murrell, Larry; Wachs, Israel; Ross, Elizabeth
 Lehigh University, Bethelhem, PA USA
- P-372 Controllable Growth of Carbon Nanotubes, Nanofibers, and Nanoballs using Catalytic Cracking of Methane
 Presenter: Sibudjing Kawi
 Author(s): Gao, Lizhen; Shen, Shoucang; Wang, Xiaoliang; Chua, Huitong; Ng, Kim Choon; Kawi, Sibudjing
 National University of Singapore, Singapore Republic of Singapore
- P-373 Nanostructured Diesel-soot Combustion Catalyst for Fast-Regenerating Traps
 Presenter: Debora Fino
 Author(s): Russo, Nunzio; Fino, Debora; Saracco, Guido; Specchia, Vito
 Politecnico di Torino, Torino Italy
- P-374 Catalytic Properties of Supported NiPt Nanoparticles
 Presenter: Gabriela Diaz
 Author(s): Gómez-Cortés, Antonio (1); Arenas-Alatorre, Jesus (1); Avalos, Miguel (2); Díaz, Gabriela (1)
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- P-375 Catalytic Removal of NO_x and Diesel Soot over Spinel-Type Oxides
 Presenter: Debora Fino
 Author(s): Fino, Debora; Russo, Nunzio; Solaro, Simone; Saracco, Guido; Specchia, Vito
 Politecnico di Torino, Turin Italy
- P-376 The Role of the Interface in the Oxidation of CO on Au/CeO₂
 Presenter: Howard Saltsburg
 Author(s): Zheng, Zhou . (1); Flytzani-Stephanopoulos, Maria .; Saltsburg, Howard .; .
 (1) Tufts University, Medford MA USA
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- P-379 Transient methods in three phase asymmetric hydrogenation of activated ketones
 Presenter: Esa Toukoniitty
 Author(s): Toukoniitty, Esa; Salmi, Tapio; Murzin, Dmitry Y.
 Åbo Akademi University Process Chemistry Center, 20500 Turku Finland
- P-380 Particulate Filters with Integrated Oxidation Catalyst Functionality - A Simulation Study
 Presenter: M. Votsmeier
 Author(s): Votsmeier , M (1); Knoth, J F. (2); Pfeifer , M (1); E.S. Lox, J. Gieshoff,, M. Kögel (1); Drochner, A (2); Vogel, H (2)
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P-381 Compensation During Lean NO Reduction

Presenter: Gustavo A. Fuentes
Author(s): Fuentes, Gustavo A.; Texon, Ivan; Martínez-Hernández, Angel; Gómez, Sergio A.
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P-382 Structure and Reactivity of the Hybrid Catalysts in the New ThermoCatalytic Cracking Processes for the Conversion of Petroleum Naphthas and Gas Oils into Light Olefins and Transportation Fuels

Presenter: Nabil Al-Yassir
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