



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003

Catalysts for Air Pollution Abatement	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Low temperature oxidation of ammonia on platinum sponge studied with positron emission profiling <i>Sobczyk D.P.</i> Presenting author: Sobczyk D.P. Schuit Institute of Catalysis, Eindhoven University of Technology</p>	ENV-003 P-1
<p>Low Temperature Activity of NOx Adsorbing Materials <i>Pernilla Svedberg - Edward Jobson - Sara Erkfeldt - Bengt Andersson - Mikael Larsson - Magnus Skoglundh</i> Presenting author: Magnus Skoglundh Competence Centre for Catalysis, Chalmers University of Technology, 412 96 Göteborg - Volvo Technological Development Corporation, 405 08 Göteborg</p>	ENV-005 P-2
<p>Low-temperature SCR of NOx with NH3 over manganese based catalysts <i>Giovanni Bagnasco - Guido Busca - Maria A Larrubia - Maurizio Notaro - Marta Panizza - Gianguido Ramis - Davide Robba - Maria Turco</i> Presenting author: Gianguido Ramis Dipartimento di Ingegneria Chimica, Università Federico II, P.le Tecchio 80, I-80125 Napoli - Dipartimento di Ingegneria Chimica e di Processo G.B. Bonino, Università di Genova, P.le J.F. Kennedy 1, I-16129 Genova - CESI, Via Reggio Emilia 39, I-20090 Segrate (MI)</p>	ENV-013 P-3
<p>Influence of the Support Acidity on the Continuous Catalytic Reduction of NO under Lean Conditions <i>Hanna Härelind Ingelsten - Magnus Skoglundh - Erik Fridell</i> Presenting author: Hanna Härelind Ingelsten Competence Centre for Catalysis, Chalmers University of Technology</p>	ENV-020 P-4
<p>Comparison Of Catalytic Performance Of Pt/Mcm-48 And Pt/Zsm-5 Catalysts For No Removal <i>Jae-Hun Jang - Sung-Chul Lee - Jae-Seung Yang - Suk-Jin Choung</i> Presenting author: Jae-Hun Jang School of Environment and Applied Chemistry, KyungHee University</p>	ENV-023 P-5
<p>Literature Survey to Assess the State-of-the-Art of Selective Catalytic Reduction of Vehicle NOx Emissions <i>Brad J. Adelman - Roland Christopher - Renaud Rohe</i> Presenting author: Brad J. Adelman Ricardo, Inc - Ricardo Consulting Engineers</p>	ENV-025 P-6
<p>Mechanistic Study of NOx Sorption on NOx Sorber Catalysts <i>William Epling - Greg Campbell - James Parks - Aleksey Yezerets - Neal Currier</i> Presenting author: William Epling EmeraChem - Cummins, Inc</p>	ENV-035 P-7
<p>A Catalytic Treatment of Toxic Chlorophenols at Sub-Ambient Temperatures <i>Mark A. Keane - Guang Yuan</i> Presenting author: Mark A. Keane Department of Chemical and Materials Engineering, University of Kentucky</p>	ENV-039 P-8
<p>Bismuth-molybdenum-tungsten mixed oxides : structural and catalytic properties <i>Ricardo Rangel - Alejandra Trejo - Pascual Bartolo - Gabriela Diaz - Antonio Gómez-Cortés - Donald Homero Galván</i> Presenting author: Ricardo Rangel Facultad de Ingeniería Química, Universidad Michoacana - CINVESTAV-IPN, Unidad Mérida - Instituto de Física-UNAM - Centro de Ciencias de la Materia Condensada-UNAM</p>	ENV-040 P-9
<p>Catalytic post combustion of emissions released in the firing of small-scale stoves and boilers using metal supported silica fibers and zeolites <i>Fredrik Klingstedt - Ahmad Kalantar - Lars-Eric Lindfors</i> Presenting author: Fredrik Klingstedt Laboratory of Industrial Chemistry, Process Chemistry Group, Åbo Akademi University</p>	ENV-044 P-10



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Catalysts for Air Pollution Abatement	Coral Gallery
Title	Page
Kinetic evaluation of NO decomposition over Cu-SiO₂/Al₂O₃/ZSM-5 ceramic sponge (cordierite)catalyst <i>Martin Andersson - Peter Bengtsson - Christian Rotvikier - Christer Gruvberg - Rafael A. Diaz_Real</i> Presenting author: Rafael A. Diaz_Real Universidad Iberoamericana - Halmstad University	ENV-053 P-11
Low Temperature NO_x Reduction by Acetaldehyde over TiO₂ <i>Angelina Kozlova - Hiu-Ying Law - Alexandr I. Kozlov - Harold H. Kung - Mayfair C. Kung</i> Presenting author: Mayfair C. Kung Chemical Engineering Department, Northwestern University, Evanston, IL 60208.	ENV-055 P-12
Quantified in-situ DRIFTS Analysis of NO_x Adsorption on Pt/K/Al₂O₃ in the Presence of CO₂ and H₂O <i>Todd J. Toops - D. Barton Smith - William S. Epling - Jim E. Parks - William P. Partridge</i> Presenting author: Todd J. Toops Oak Ridge National Laboratory - EmeraChem	ENV-061 P-13
Reaction of NO with Methane on Promoted Mixed Metal Oxide Catalysts <i>Jale F. Akyurtlu - Ates Akyurtlu</i> Presenting author: Jale F. Akyurtlu Hampton University	ENV-062 P-14
Catalytic Decomposition of Nitric Oxide over Nano-sized PbTiO₃ loaded Cupric Oxide <i>Li Xing - Weiping Ding - Yi Chen</i> Presenting author: Weiping Ding Nanjing University	ENV-069 P-15
Supported Gallium, Indium and Tin Oxides as High Performance Catalysts for the HC-SCR Process: Influence of Loading and Support Acidity on Activity <i>Aline Auroux - Antonella Gervasini - Alice L Petre - Jose Antonio Perdigon Melon</i> Presenting author: Aline Auroux Institut de Recherches sur la Catalyse, CNRS - Dipartimento di Chimica Fisica ed Elettrochimica, Universita di Milano	ENV-076 P-16
Catalysts Based on Foam Metals for Processes of Partial and Deep Oxidation <i>Alexei N. Pestryakov - Elena V. Smolentseva - Andrey N. Kryazhov - Valery V. Lunin - Nina E. Bogdanchikova - Vitalii P. Petranovskii</i> Presenting author: Vitalii P. Petranovskii Tomsk Polytechnic University - Moscow State University - Centro de Ciencias de la Materia Condensada	ENV-078 P-17
Characterization of aged Pd/Co-HMOR during the lean CH₄-SCR of NO_x <i>Fernando Córdoba - Gustavo A. Fuentes - Consuelo Montes de Correa</i> Presenting author: Gustavo A. Fuentes Departamento de Ingeniería Química, Universidad de Antioquia - Depto. de Ingeniería de Procesos e Hidráulica, UAM-Iztapalapa	ENV-079 P-18
Catalytic NO Decomposition on Cu-ZSM5: Kinetically Relevant Elementary Steps and Speciation and Role of Cu Structures <i>Bjorn Moden - Patrick Da Costa - Deuk Kee Lee - Enrique Iglesia</i> Presenting author: Bjorn Moden University of California, Berkeley	GEN-26 P-19
Potential of Catalysis by Gold for Fuel Cell and Pollution Control Applications <i>Christopher W. Corti - Richard J. Holliday - David T Thompson</i> Presenting author: David T Thompson World Gold Council, United Kingdom	ENV-137 P-20
Catalysts for Clean Energy and Clean Fuel Technologies	Coral Gallery
Pd/SiO₂, Ag/SiO₂ and Cu/SiO₂ cogelled xerogel catalysts for environmental reactions : hydrodechlorination of 1,2-dichloroethane and volatil organic compounds combustion <i>Stéphanie D.R.G. Lambert - Natalia Tcherkassova - Caroline Cellier - Fabrice Ferauche - Benoît Heinrichs - Paul Grange - Jean-Paul Pirard</i> Presenting author: Stéphanie D.R.G. Lambert Laboratoire de Génie Chimique, University of Liège - Unité de Catalyse et Chimie des matériaux divisés, University of Louvain-la-Neuve	ENV-002 P-21



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Catalysts for Clean Energy and Clean Fuel Technologies	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Dry and Auto Thermal Reforming of Methane to Syngas over $/(La,Ca)Ru_{0.8}Ni_{0.2}O_3$ Precursor Perovskites <i>Mireya R. Goldwasser - Dayana Licón - María Elena Rivas - Eglé Pietri - María Josefina Pérez-Zurita - María Cubeiro - Lucien Leclercq - Ginette Leclercq</i> Presenting author: Mireya R. Goldwasser Centro de Catálisis, Petróleo y Petroquímica, Escuela de Química, Fac. Ciencias, UCV, Apartado 47102, Los Chaguaramos, Caracas, Venezuela</p>	ENV-009 P-22
<p>Addition Of Branched C8 Olefins In Gasoline And The Effect On Motor Vehicles Exhaust Emissions <i>Ma. Angeles Mantilla Ramírez - Gerardo Ferrat-Torres - Esteban LópezSalinas - Alfonso López-Ortega - Mario Vera-Acosta</i> Presenting author: Ma. Angeles Mantilla Ramírez Instituto Mexicano del Petroleo</p>	ENV-011 P-23
<p>Evaluating dispersed SnO₂ as Support for Methane Combustion over Pd-based Catalysts <i>Marco A Fraga - Erick S. de Souza - Andréa M Duarte de Farias - Francisco J Cadete Santos Aires - Lucia G Appel</i> Presenting author: Marco A Fraga Instituto Nacional de Tecnologia - Institut de Recherche sur la Catalyse</p>	ENV-012 P-24
<p>Some evidences of the effect of Pd-La₂O₃ interactions in Pd/Al₂O₃-La₂O₃ on the N₂ selectivity in the NO reduction with H₂ <i>Arturo Barrera - Margarita Viniestra - Sergio Fuentes Moyado - Gabriela Díaz</i> Presenting author: Arturo Barrera Universidad Autónoma Metropolitana - Iztapalapa - Universidad Nacional Autónoma de México</p>	ENV-129 P-25
<p>A study of mechanism and effect of oxide promoters on Pd/Ceria for the Water-Gas-Shift Reaction <i>Xiang Wang - Tian Luo - Raymond J Gorte</i> Presenting author: Tian Luo University of Pennsylvania</p>	ENV-021 P-26
<p>Catalytic performance of Cu/Mn/Ni/ZrO₂ catalysts prepared by sol-gel method for CO hydrogenation <i>Zhongyi Ma - Run Xu - Cheng Yang - Wei Wei - Yuhan Sun</i> Presenting author: Zhongyi Ma State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences</p>	ENV-030 P-27
<p>Effect of Cerium on CH₄ reforming with CO₂ over Pt/Al₂O₃ catalysts <i>Sonia Damyanova - Jose Maria Correa Bueno</i> Presenting author: Sonia Damyanova Institute of Catalysis, Bulgarian Academy of Sciences - DEQ-Universidade Federal de Sao Carlos</p>	ENV-032 P-28
<p>Methanol Synthesis from H₂/CO₂ Over Ga₂O₃-Pd Silica-Supported Catalysts: Effect of CO Addition in the Feed and the RWGS Reaction. <i>Julieta Barrandeguy - Dante L. Chiavassa - Sebastian E. Collins - Adrian L. Bonivardi - Miguel A. Baltanás</i> Presenting author: Miguel A. Baltanás INTEC (Instituto de Desarrollo Tecnológico para la Industria Química)</p>	ENV-056 P-29
<p>Microwave Effects in Catalysis <i>William Curtis Conner</i> Presenting author: William Curtis Conner University of Massachusetts</p>	ENV-083 P-30
Green Chemistry and Engineering through Catalysis	
Coral Gallery	
<p>C-C bond forming reactions in ionic liquids: the effect of the impurities on catalytic performance <i>Vito Gallo - Piero Mastrorilli - Cosimo F. Nobile - Gian P. Suranna</i> Presenting author: Piero Mastrorilli D.I.C.A.- Chemistry Section Polytechnic of Bari</p>	ENV-016 P-31



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Green Chemistry and Engineering through Catalysis	Coral Gallery
Title	Page
<p>Depolymerization of Polysiloxanes with Dimethyl Carbonate using Alkali Metal Halide Catalyst <i>Masaki Okamoto - Sumiko Suzuki - Eiichi Suzuki</i> Presenting author: Masaki Okamoto Department of Applied Chemistry, Tokyo Institute of Technology - Department of Chemistry and Materials Science, Tokyo Institute of Technology</p>	ENV-031 P-32
<p>Liquid-phase hydrodechlorination of CCl₄ in a medium of ethanol with co-production of acetal (1,1-diethoxyethane) and diethyl carbonate <i>Kyung Hee Lee - Jong Wook Bae - Jae Sung Lee</i> Presenting author: Kyung Hee Lee Department of Chemical Engineering, Pohang University of Science and Technology(POSTECH)</p>	ENV-034 P-33
<p>Preparation of Ca-based solid base catalyst and its application for DMC synthesis from methanol and propylene carbonate <i>Tong Wei - Mouhua Wang - Wei Wei - Yuhan Sun - Bing Zhong</i> Presenting author: Tong Wei State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences</p>	ENV-036 P-34
<p>Synthesis of Dimethyl Carbonate from Urea and Methanol over Heterogeneous Catalysts <i>Mouhua Wang - Tong Wei - Wei Wei - Jinhai Yang - Xiuzhi Wang - Yuhan Sun</i> Presenting author: Mouhua Wang State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences</p>	ENV-037 P-35
<p>Catalysts for clean oxidation of phenol <i>Paula I Villabrille - Gustavo P Romanelli - Patricia G Vázquez - Carmen V Cáceres</i> Presenting author: Patricia G Vázquez "Centro de Investigación y Desarrollo en Ciencias Aplicadas Dr. Jorge J. Ronco" (CINDECA), Universidad Nacional de La Plata -8211; CONICET, 47 N° 257 (B1900AJK) La Plata - 2Laboratorio de Estudio de Compuestos Orgánicos (LADECOR), Universidad Nacional de La Plata, 47 y 115 (B1900AJL) La Plata</p>	ENV-041 P-36
<p>Catalytic Nitration of Toluene Using Solid Acid Catalyst in TNT Synthesis: Elimination of Red Water pollution <i>Reddy S Damavarapu - Rao C Surapaneni</i> Presenting author: Reddy S Damavarapu U.S.Army Armament Research,Development and Engineering Center</p>	ENV-043 P-37
<p>Friedel-Crafts Benzoxylation of Anisole in Ionic Liquids <i>Paul D Nancarrow - Jillian Thompson - David W Rooney - Christopher Hardacre</i> Presenting author: Paul D Nancarrow QUILL - School of Chemical Engineering, Queen's University, Belfast - School of Chemistry, Queen's University, Belfast</p>	ENV-048 P-38
<p>Heterogeneous catalysed hydrodehalogenation of 6-chloropurine in ionic liquids <i>Peter A Goodrich</i> Presenting author: Peter A Goodrich QUILL</p>	ENV-049 P-39
<p>Kinetics of the Hydrodechlorination Reaction of Chlorinated Compounds on Pd/C Catalyst <i>Nan Chen - Fabio H. Ribeiro - Larry N. Ito</i> Presenting author: Fabio H. Ribeiro Department of Chemical Engineering, Worcester Polytechnic Institute, Worcester, Massachusetts, 01609 - The Dow Chemical Company, Corporate R&D - Chemical Sciences Catalyst Development Laboratory, Midland, Michigan, 48674</p>	ENV-054 P-40
<p>Zirconia based solid acids for the Friedel-Crafts alkylation of Benzene <i>Emilie Burguin - Karen Wilson - James H Clark</i> Presenting author: Emilie Burguin Department of Chemistry, University of York</p>	ENV-068 P-41
<p>Complete Dechlorination of Cl-Aromatics Catalyzed by Pd/TiO₂ with H₂ <i>Ichiro Yamanaka - Koji Nishikawa - Sakae Takenaka - Kiyoshi Otsuka</i> Presenting author: Ichiro Yamanaka Tokyo Institute of Technology</p>	ENV-070 P-42



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Green Chemistry and Engineering through Catalysis	Coral Gallery
<i>Title</i>	<i>Page</i>
MTS-supported Cobalt Complexes as Catalysts for the Aerial Oxidation of Hydrocarbons <i>Timo Pruss - Duncan J Macquarrie - James H Clark</i> Presenting author: Timo Pruss Clean Technology Centre, Dept. of Chemistry, University of York	ENV-073 P-43
A novel preparation of mesoporous Ni/Al₂O₃ catalyst for the hydrodechlorination of 1,2-dichloropropane <i>Pil Kim - Younghun Kim - Heesoo Kim - Wha Young Lee - Kyunghye Choi - Jongheop Yi</i> Presenting author: Pil Kim School of Chemical Engineering, Seoul National University - National Institute of Environmental Research	ENV-077 P-44
A Novel Catalytic Process for Ethylene Dichloride Conversion to Vinyl Chloride <i>Jelle Nieuwland - Egbert Nijhuis - Z. Conrad Zhang</i> Presenting author: Z. Conrad Zhang Akzo Nobel Catalysts - Akzo Nobel Chemicals - Akzo Nobel Chemicals, Inc.	IND-39 P-45
Catalysis by Metallic Nanoparticles	Coral Gallery
Correlation between Size, Electron Structure and Activity in CO Oxidation: Gold Nanoparticles Deposited on SiO₂/Si(100) <i>Laszlo Guzzi - Gabor Peto - Krisztina Frey - Zoltan Paszti</i> Presenting author: Laszlo Guzzi Institute of Isotope and Surface Chemistry, CRC, HAS, Department of Surface Chemistry and Catalysis - Institute of Technical Physics and Materials Science	NAN-02 P-46
Genesis of Au-Pd Nanoparticles Supported on SiO₂: Structure and Catalytic Activity in CO Oxidation <i>Andrea Beck - Krisztina Frey - Zsuzsanna Koppány - L. F. Liotta - Annamaria Venezia - Laszlo Guzzi</i> Presenting author: Andrea Beck Department of Surface Chemistry and Catalysis, Institute of Isotope and Surface Chemistry, CRC, HAS, - Istituto di Chimica e Tecnologia dei Prodotti Naturali (ICTPN-CNR)	NAN-03 P-47
Selective hydrogenation of cinnamaldehyde over carbon nanofibers supported ruthenium and platinum catalysts <i>Marjolein L. Toebes - Frans F. Prinsloo - Johannes Hendrik Bitter - Jos A.J. van Dillen - Krijn P. de Jong</i> Presenting author: Marjolein L. Toebes Utrecht University, Debye Institute, Department of Inorganic Chemistry and Catalysis - Sasol Technology R&D	NAN-05 P-48
Partial hydrogenation of 1,3-cyclooctadiene using dendrimer-encapsulated Pt-Pd bimetallic nanoparticles <i>Young-Min Chung - Hyun-Ku Rhee</i> Presenting author: Hyun-Ku Rhee School of Chemical Engineering and Institute of Chemical Processes, Seoul National University	NAN-09 P-49
STM Studies Of Au Nanoclusters On Metal Oxides <i>Jerzy Haber - Nika Spiridis - Jakub Barbasz - Jozef Korecki</i> Presenting author: Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Kraków - Faculty of Physics and Nuclear Techniques, University of Mining and Metallurgy, Kraków	NAN-19 P-50
Amination Applications over Nano-MgNi Hydrogen Storage Alloy Catalysts <i>Jih-Mirn Jehng - Chia-Ming Chen</i> Presenting author: Jih-Mirn Jehng Department of Chemical Engineering, National Chung Hsing University	NAN-20 P-51
Mesoporous and Nanocomposite Catalysts	Coral Gallery
Synthesis of Oligomer-Templated Oxidation Catalysts <i>Bamidele Adisa - Anand Patel - David A Bruce</i> Presenting author: Bamidele Adisa Clemson University, Clemson SC	NAN-06 P-52
Catalysis and fine chemistry: development of shape selective material for the transesterification of polyols. <i>Sébastien Bancquart - Yannick Pouilloux - Joël Barrault</i> Presenting author: Sébastien Bancquart LACCO - ESIP, UMR CNRS 6503	NAN-16 P-53



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Mesoporous and Nanocomposite Catalysts	Coral Gallery
<i>Title</i>	<i>Page</i>
Nanostructured Gamma Alumina from Amorphous Precursors <i>Michael V. Glazoff - John W. Novak</i> Presenting author: John W. Novak Alcoa Laboratories	NAN-18 P-54
Effect of Diffusion and Textural Changes on the Catalytic Activity and Adsorption of Nanocrystalline MgO Pellets in Reaction with 1-Chlorobutane. <i>Piyush P Gupta - Kenneth J Klabunde - Alexander F Bedilo - Larry E Erickson</i> Presenting author: Piyush P Gupta Kansas State University, Manhattan, KS 66502	NAN-23 P-55
Preparation and Catalytic Applications of High-Surface-Area Aerogels <i>Dong Jin Suh D. J. Suh - Jin-Hong Kim - Tae-Jin Park T.-J. Park</i> Presenting author: Dong Jin Suh D. J. Suh Korea Institute of Science and Technology	NAN-27 P-56
Propylene Epoxidation over Au/TS-1 <i>Nora Yap - David H Wells, Jr. - Bradley Taylor - Kendall T Thomson - Jochen A Lauterbach - W. Nicholas Delgass</i> Presenting author: David H Wells, Jr. Purdue University - University of Delaware	NAN-37 P-57
Binary Supported Catalysts for Non-oxidative Dehydrogenation of Lower Alkanes to Produce Hydrogen and Nanotubes <i>Naresh Shah - Yuguo Wang - Devadas Panjala - Frank E Huggnis - Gerald P Huffman</i> Presenting author: Naresh Shah University of Kentucky - Conoco Gas Solutions	NAN-44 P-58
Catalysis by stacked Ti-MFI Zeolite Crystallite <i>Sang-Eon Park - C. Xu - Jin Soo Hwang - Jong-San Chang - Min Seok Park - Young Kyu Hwang</i> Presenting author: Sang-Eon Park Korea Research Institute of Chemical Technology	NAN-45 P-59
Catalysts for HDS of Liquid Fuels	Coral Gallery
HDS And HDN Of A Gasoil And Pyridine Mixture On Ni-Re Catalysts Supported On Pillared Clays (PILC) And Zeolites (USY) <i>Gabriela Alvez Manoli - Rafael Garcia Lovera - Ruby Cid Araneda - Nestor Escalona - Francisco Gil-LLambias - Antonio Lopez Agudo</i> Presenting author: Gabriela Alvez Manoli Facultad de Farmacia Universidad de Concepción - Facultad de Ciencias Químicas Universidad de Concepción - Facultad de Biología y Química Universidad de Santiago - Instituto de Catálisis y Petroleoquímica, CSIC, Madrid	HHC-04 P-60
Effect of sodium on HDS activity of CoMo catalysts <i>Valeria La Parola - Anna M Venezia - Giulio Deganello</i> Presenting author: Anna M Venezia Dipartimento di Chimica Inorganica e Chimica Analitica, Università di Palermo - Istituto per lo Studio dei Materiali Nanostrutturati (ISMN-CNR), Sezione di Palermo	HHC-05 P-61
Catalysts M/MoS₂ (M=Co, Ni).Supported On Al₂O₃-TiO₂ For HDS <i>Lorena Alvarez Contreras - Jaime Espino Valencia - José L. Rico Cerda - Luz A. Ponce Escobar - Carlos E. Ornelas G. - Sergio Fuentes Moyado - Gilles D Berhault - Gabriel Alonso Nuñez</i> Presenting author: Lorena Alvarez Contreras Centro de Investigaciones en Materiales Avanzados - IIM de la Universidad Michoacana de San Nicolás de Hidalgo - Centro de Ciencias de la Materia Condensada, UNAM - Laboratoire de Catalyse et Chemie Organique-UMR 6503 CNRS, Université de Poitiers	HHC-37 P-62
Hydrodenitrogenation of Quinoline on Ni-Mo and Co-Mo Catalysts <i>Ricardo Agueda Rangel - Pedro M Vega Merino - Sergio Ramirez Amador - Alfonso Garcia López - Cándido Aguilar Barrera - Rocío Santiago Barrera - Luis M Rodriguez Otal - María T Luna Juárez</i> Presenting author: Sergio Ramirez Amador Instituto Mexicano del Petróleo - PEMEX-Refinación	HHC-40 P-63



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Catalysts for HDS of Liquid Fuels	Coral Gallery
<i>Title</i>	<i>Page</i>
Hydrogenation and hydrodesulfurization of DBT and 4,6 DMBDT on NiMo and NiW catalysts supported on Al₂O₃ and TiO₂ mixed oxides <i>Jorge Ramirez - Gabriela Macias - Aida Gutiérrez-Alejandre - Rogelio Cuevas - Perla Castillo</i> Presenting author: Jorge Ramirez UNICAT, Facultad de Química, UNAM	HHC-41 P-64
Hydrodesulfurization of 4,6 DMBDT on Boron-modified CoMo/Al₂O₃ and NiMo/Al₂O₃ catalysts <i>Jorge Ramirez - Pablo Torres - Rogelio Cuevas - Aida Gutiérrez-Alejandre</i> Presenting author: Pablo Torres UNICAT, Facultad de Química, UNAM	HHC-52 P-65
Effect Of The Removal Of Organo-Nitrogen Compounds In The Hydrodesulfurization Process Of Straight Run Gas Oil <i>José L. García - Luis F. Ramírez - Heriberto Vaca - Florentino R. Murrieta</i> Presenting author: José L. García Instituto Mexicano Del Petroleo	HHC-60 P-66
Fundamentals of Kinetics and Mechanisms	Coral Gallery
Supports Effect On Hydroprocessing Of Maya Heavy Crude <i>Samir K Maity - Jorge Ancheyta Juárez - Leticia Soberanis - Fernando Alonso</i> Presenting author: Samir K Maity Instituto Mexicano Del Petroleo	HHC-07 P-67
Influence of the Kinetics of Coke Formation on the Catalytic Behaviour of Activated Carbon Supported Ni-Mo Catalysts in the Ethylene Hydrogenation <i>Juan Matos - Joaquín L. Brito - Jorge Laine</i> Presenting author: Juan Matos Venezuelan Institute for Scientific Research	HHC-27 P-68
Inhibition and Deactivation of Hydrodenitrogenation (HDN) Catalysts by Narrow Cuts of Athabasca Bitumen Coker Gas Oil <i>Will Kanda - Iva Siu - John Adjaye - Alan E Nelson - Murray R. Gray</i> Presenting author: Alan E Nelson University of Alberta - Syncrude Canada Ltd.	HHC-42 P-69
New Catalysts for Hydrotreating	Coral Gallery
Synergetic effect of gold in Au/Pd catalysts during HDS reactions of dibenzothiophene <i>Anna M Venezia - Valeria La Parola - Giulio Deganello - Barbara Pawelec - José Luis García Fierro</i> Presenting author: Anna M Venezia Istituto per lo Studio dei Materiali Nanostrutturati, ISMN-CNR Sezione di Palermo - Dipartimento di Chimica Inorganica e Chimica Analitica, Università di Palermo - Instituto de Catalysis y Petroleoquímica, CSIC, Campus UAM, Cantoblanco, Madrid	HHC-08 P-70
Mo/TiO₂ catalyst doped with niobium sulfide for HDS process <i>Luis Cedeño Caero - Alma R Romero Aguilar - Jorge Ramirez</i> Presenting author: Luis Cedeño Caero UNICAT, Facultad de Química, UNAM - Instituto Mexicano del Petroleo	HHC-09 P-71
New starting CoMo heteropolyoxomolybdates for the preparation of HDS catalysts <i>Catherine Martin - Carole Lamonier - Edmond Payen - Virginie Harlé</i> Presenting author: Edmond Payen Laboratoire de Catalyse de Lille - Institut Français du Pétrole	HHC-11 P-72



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
New Catalysts for Hydrotreating	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Effect of a Physicochemical Treatment on Activated Charcoals to be used as Supports of Prototype HDS Catalysts <i>Sergio Robles-Andrade - Juan Jose Muñoz-Cruz - Ricardo Garcia-Alamilla - Rebeca Silva - Aaron Melo-Banda - Alfredo Castillo-Mares</i> Presenting author: Sergio Robles-Andrade Instituto Tecnológico de Ciudad Madero - Instituto Mexicano del Petróleo, Sección Madero</p>	HHC-14 P-73
<p>Ni-Mo Carbides And Nitrides Supported On g-Al₂O₃ Doped With Phosphorous In The HDS Of Thiophene <i>Jose Aaron Melo-Banda - Laura A Santillan Vallejo - Adriana I Reyes De La Torre - Patricia Perez Romo - Guillermo Sandoval Robles - Jose Manuel Dominguez Esquivel -</i> Presenting Author: Jose Aaron Melo-Banda Instituto Tecnológico De Ciudad Madero - Instituto Mexicano Del Petróleo</p>	HHC-34 P-74
<p>RuS₂ stability and its performance in HDS catalytic conditions <i>Perla Castillo - Jorge Ramirez</i> Presenting author: Perla Castillo UNICAT, Depto. Ingeniería Química, Fac. Química, UNAM</p>	HHC-48 P-75
<p>Synthesis of High Surface Area Molybdenum Sulfide: Variations on a Method <i>Ma. de Jesús Soto-Puente - Juan Cruz-Reyes - Mario Del Valle-Granados - Miguel Avalos-Borja - Erick Flores-Aquino - Sergio Fuentes-Moyado</i> Presenting author: Mario Del Valle-Granados Facultad de Ciencias Químicas e Ingeniería- UABC - Centro de Ciencias de la materia Condensada-UNAM</p>	HHC-49 P-76
<p>Characterization And Catalytic Evaluation Of Mixed Ni-V Sulfides <i>Paulino J Betancourt - Mariluz Murillo - Joaquin L Brito</i> Presenting author: Paulino J Betancourt Universidad Central de Venezuela - Instituto Venezolano de Investigaciones Científicas</p>	HHC-25 P-77
<p>HDP of vanadil porphirine on bulk Zn-Ni mixed sulphides synthesized from Ni recycled <i>Carlos F. Linares - Edith Figueredo - Ana Tortosa - Caribay Urbina de Navarro - Carlos E. Scott</i> Presenting author: Carlos F. Linares Universidad de Carabobo. Departamento de Química - Universidad Central de Venezuela. Escuela de Biología - Universidad Central de Venezuela. Escuela de Química</p>	HHC-38 P-78
<p>Heavy Oil Upgrading Using Two-Dimensional Dispersed Catalyst <i>Ching Thian Tye - Kevin J. Smith</i> Presenting author: Ching Thian Tye Department of Chemical and Biological Engineering, University of British Columbia</p>	HHC-39 P-79
<p>Evaluation of the Activity of NiMo/Al₂O₃- Kaolin Catalysts in the Hydrotreatment of a Vacuum Gas Oil <i>Alfredo Castillo-Mares - Rebeca Silva-Rodrigo - Guillermo Sandoval-Robles - Ricardo García -Alamilla - Aarón Melo-Banda</i> Presenting author: Alfredo Castillo-Mares Instituto Tecnológico de Ciudad Madero</p>	HHC-51 P-80
<p>The so-called Solvent Effect in gas-liquid hydrotreatment reactions <i>Guevara Lara Alfredo - Bacaud Robert - Vrinat Michel</i> Presenting author: Guevara Lara Alfredo Institute des Recherches sur la Catalyse</p>	HHC-22 P-81
Properties of Metals and Oxides	Coral Gallery
<p>The effects of the preparation methods and the supports on the shape and catalytic activities of Au in the ring-opening reactions of propylene oxide <i>Andras Fasi - Istvan Palinko - Klara Hernadi - Zoltan Konya - Imre Kiricsi</i> Presenting author: Istvan Palinko University of Szeged - Chemical Research Center of the Hungarian Academy of Sciences</p>	MOX-02 P-82
<p>Dehydrogenation of isobutane on Pt-In and Pt-In-Sn supported catalysts <i>Marcos L Matus - Vera Cambursano - Carlos A Querini</i> Presenting author: Carlos A Querini Research Institute on Catalysis and Petrochemistry (INCAPE)</p>	MOX-47 P-83



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Properties of Metals and Oxides	Coral Gallery
<i>Title</i>	<i>Page</i>
Cuprous oxide (Cu₂O) thin films for photoelectrochemical cell <i>Eun-Ho Lee - Oh-Shim Joo - Kwang-Deog Jung - Seung-Chul Choi</i> Presenting author: Oh-Shim Joo Korea Institute of Science and technology - Department Materials Science and Engineering, Ajou University	MOX-12 P-84
Effect of the promoter and support in the catalytic activity of Pd-CeO₂ supported catalysts. <i>Gina Pecchi - Patricio Reyes - Tessy López - Ricardo Gomez</i> Presenting author: Gina Pecchi Universidad de Concepción - Universidad Autónoma Metropolitana-Iztapalapa	MOX-19 P-85
Noble Metal Reducible Oxide Catalysts For Co Oxidation And No Decomposition <i>Ates Akyurtlu - Jale F. Akyurtlu - David Schryer - Jeffrey D. Jordan</i> Presenting author: Ates Akyurtlu Hampton University	MOX-27 P-86
Fundamentals Studies in Metals and Oxides	Coral Gallery
Liquid phase hydrogenation of citral over Pt/SiO₂ and Pt-Fe/SiO₂ <i>Hugo A Rojas - Patricio A Reyes - Paul Jara - José Luis García Fierro - Marcelo L Oportus</i> Presenting author: Hugo A Rojas Universidad Pedagógica y Tecnológica de Colombia - Universidad de Concepción - Instituto de Catalisis y Petroleoquímica	MOX-04 P-87
Effect of H₂S on CO₂ hydrogenation on supported Rh catalysts <i>Andras Erdohelyi - Tamas Szailer - Eva Novak</i> Presenting author: Andras Erdohelyi Institute of Solid State and Radiochemistry, University of Szeged	MOX-18 P-88
MnO-promoted Rh/Al₂O₃ catalysts for C₂+oxygenates from syngas <i>Manuel Ojeda - Manuel López Granados - Pilar Terreros - José Luis García Fierro</i> Presenting author: Manuel Ojeda Institute of Catalysis and Petrochemistry (CSIC)	MOX-23 P-89
Preparation of Cu-Zn/SiO₂ catalysts by co-impregnation - Evidence for Cu-Zn interactions through the reaction of selective hydrogenation of crotonaldehyde <i>Stéphanie Catillon - Catherine Louis - Hélène Lauron-Pernot - Fatima Ammari - Raymonde Touroude</i> Presenting author: Catherine Louis Laboratoire de Réactivité de Surface, UMR 7609 CNRS, Université P. et M. Curie, 4, Place Jussieu, 75252 Paris - LMSPC, UMR 7515 CNRS, ECPM-Université Louis Pasteur, 25, rue Béquere, 67087 Strasbourg cedex	MOX-57 P-90
In Situ Studies	Coral Gallery
A Surface Science Approach to Understanding Structure-Activity Relationships for Supported Vanadia Catalysts <i>Gordon S. Wong - John M. Vohs</i> Presenting author: Gordon S. Wong University of Pennsylvania	MOX-08 P-91
Low Temperature Water Gas Shift Reaction over Cu/Zn/Al Catalysts <i>Yeping Cai - Jon P Wagner - Jürgen Ladebeck</i> Presenting author: Yeping Cai Süd-Chemie Inc.	MOX-13 P-92
Relationship between the Activity of Composite Oxide Catalysts and their Oxidation-Reduction Properties <i>Jerzy Haber - Wincenty Turek</i> Presenting author: Wincenty Turek Institute of Catalysis and Surface Chemistry, PAS, Niezapominajek 8, 30-239 Krakow, Poland - Department of Physical Chemistry and Technology of Polymers, SUT, Strzody 9,44-100 Gliwice, Poland	MOX-24 P-93
TPD-TGA and Calorimetric Study of the Partial Oxidation of Methanol on TiO₂- and CeO₂-Supported Vanadium Oxide <i>Tao Feng - John M. Vohs</i> Presenting author: Tao Feng University of Pennsylvania	MOX-16 P-94



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
In Situ Studies	Coral Gallery
Title	Page
<p>Carbon-Nitrogen bond on TiO₂ (001) single crystals <i>Idriss Hicham - Wilson N J</i> Presenting author: Idriss Hicham University of Auckland</p>	<p>MOX-44 P-95</p>
<p>Kinetics of Isopropyl Alcohol Conversion over Oxide Catalysts with Oxidation-Reduction Properties <i>Wincenty Turek - Agnieszka Wolna - Mieczyslaw Lapkowski</i> Presenting author: Wincenty Turek Institute of Physical Chemistry and Technology of Polymers, Silesian Technical University, Strzody 9, 44 100 Gliwice, Poland</p>	<p>MOX-21 P-96</p>
Selective Oxidation	Coral Gallery
<p>Molybdenum-Promoted Vanadyl Pyrophosphate Catalysts for Reduction of Acrylic Acid During Selective Oxidation of Butane to Maleic Anhydride <i>Timothy R. Felthouse - Nancy L. Brungard - Weiqing Zou</i> Presenting author: Timothy R. Felthouse IHuntsman Corporation, 7114 N. Lamar Blvd., Austin, TX 78752 USA - 2Engelhard Corporation, 25 Middlesex/Essex Turnpike, Iselin, NJ 08830 USA - Engelhard Corporation, 23800 Mercantile Road, Beachwood, OH 44122-5945 USA</p>	<p>IND-05 P-97</p>
<p>Selective vapor-phase epoxidation of propylene over modified Ag-MoO₃ catalyst by molecular oxygen <i>Guojie Jin - Guanzhong Lu - Yanglong Guo - Junsong Wang</i> Presenting author: Guojie Jin Research Institute of Industrial Catalysis, East China University of Science and Technology</p>	<p>IND-07 P-98</p>
<p>The oxidehydrogenation of propane under cyclic conditions: the enhancement of catalytic performance of vanadium oxide achieved by dispersion in silica gel <i>Fabrizio Cavani - Carlotta Cortelli - Maria Ferrari - Ugo Cornaro - Roberto Catani</i> Presenting author: Fabrizio Cavani Dip. Chimica Industriale e Materiali, Univ. of Bologna - Snamprogetti SpA</p>	<p>IND-09 P-99</p>
<p>The selectivity-enhancement effect of Nb in Cr/V/Nb/Sb, rutile-type mixed oxides, catalysts for the ammoxidation of propane to acrylonitrile <i>Nicola Ballarini - Fabrizio Cavani - Elisa Frontani - Ferruccio Trifirò - Ugo Cornaro - Roberto Catani</i> Presenting author: Nicola Ballarini Dip. Chimica Industriale e Materiali, V.le Risorgimento 4, 40136 Bologna, Italy. - Snamprogetti SpA, Via Maritano 26, 20097 S. Donato Mi (MI),</p>	<p>IND-10 P-100</p>
<p>Improved Yields to Acrolein by Modified Scheelite-Type Multi Metal Oxides <i>Georgi Vacheevich Isagulians - Inna Pavlovna Belomestnykh - Gert W.A.F. Vorbeck - Jesper Nerlov - Jens Perregaard - Poul-Erik Højlund Nielsen</i> Presenting author: Gert W.A.F. Vorbeck N.D. Zelinsky Institute of Organic Chemistry Moscow - Haldor Topsøe A/S Lyngby (Copenhagen)</p>	<p>MOX-26 P-101</p>
<p>Propane Oxydehydrogenation on FeVSbAl Oxide Catalyst Designed by Site Isolation Approach <i>Shahid Shaikh - Armando Araujo - Edouard Mamedov</i> Presenting author: Edouard Mamedov Sabic Americas Inc.</p>	<p>MOX-05 P-102</p>
<p>Oxidative dehydrogenation of ethane to ethylene with CO₂ as an oxidant over chromium oxide supported on high-silica H-ZSM-5 <i>Naoki Mimura - Isao Takahara - Megumu Inaba - Masaki Okamoto - Kazuhisa Murata</i> Presenting author: Naoki Mimura National Institute of Advanced Industrial Science and Technology (AIST) - Tokyo Institute of Technology</p>	<p>MOX-10 P-103</p>
<p>Mixed Mo-V-Te Oxide Catalysts for Selective Propane Oxidation to Acrylic Acid <i>Jamal N. Al-Saeedi - Vadim V. Guliants</i> Presenting author: Jamal N. Al-Saeedi University of Cincinnati</p>	<p>PRE-064 P-104</p>



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Computational Catalysis	Coral Gallery
<i>Title</i>	<i>Page</i>
A New Kinetic Model for Oxygen Diffusion on Three-Way Catalysts <i>Sumeya Bedrane - Arvaidas Galdikas - Claude Descorme - Daniel Duprez</i> Presenting Author: Claude Descorme LACCO - UMR 6503, CNRS - University of Poitiers - Physics Department, Kaunas University of Technology	COM-05 P-105
Combinatorial Catalysis	Coral Gallery
High Throughput Screening in monolith reactors for partial and total oxidation reactions <i>Martin Lucas - Peter Claus</i> Presenting author: Martin Lucas Darmstadt University of Technology, Institute of Chemical Technology, Darmstadt	COB-02 P-106
Mechanism-Based High Throughput Screening of Homogeneous Catalyst by Electrospray Tandem Mass Spectrometry <i>Peter Chen - Christian Hinderling - Daniel Wehrli - Marco Pickel - Martin Huber</i> Presenting author: Martin Huber Laboratorium für organische Chemie, ETH Zürich, 8093 Zurich - Thales Technologies AG, Technoparkst.1, 8005 Zürich, Switzerland	COB-04 P-107
Discovery of Quaternary Pt-based Electrocatalyst for Methanol Oxidation using Combinatorial Electrochemistry <i>Won Choon Choi - Ju Dam Kim - Seon Ihl Woo</i> Presenting author: Seon Ihl Woo Korea Advanced Institute of Science and Technology	COB-06 P-108
Novel System for Combinatorial Synthesis and Rapid Screening of Carbide-Based Hydrotreating Catalysts <i>Worajit Setthapun - Yoshinori Kato - Shyamal K. Bej - Levi T. Thompson</i> Presenting author: Yoshinori Kato University of Michigan - Cosmo Oil Co., Ltd.	COB-07 P-109
Combinatorial Studies of the Preferential Oxidation of CO: High-Throughput Infrared Thermography and Parallel Activity Measurements <i>Francisco J. Gracia - Wen Li - Eduardo E. Wolf</i> Presenting author: Wen Li University of Notre Dame	COB-09 P-110
Deactivation and Reaction Engineering	Coral Gallery
Homogeneous gas-liquid catalytic processes in membrane contactors: two case studies <i>Alexei Lapkin - Pawel Plucinski</i> Presenting author: Alexei Lapkin Department of Chemical Engineering, University of Bath	DRE-03 P-111
Development of stable ruthenium catalysts for the hydrogenation of 3-hydroxypropanal to 1,3-propanediol <i>Michele Besson - Pierre Gallezot - Anne Pigamo</i> Presenting author: Pierre Gallezot Institut de Recherches sur la Catalyse-CNRS	DRE-07 P-112
DME synthesis on the catalysts mixed with the Cu/ZnO/Al₂O₃ and Silica-Alumino phosphate <i>Ji-hyun Kim - Sun-Jin Kim - Kwang-Deog Jung - Oh-Shim Joo</i> Presenting author: Oh-Shim Joo Korea Institute of Science of Technology	DRE-08 P-113
How to Stop Sintering of Reduced Ni-crystallites in Ammonia Atmosphere <i>Johan Lif - Magnus Skoglundh - Lars Löwendahl</i> Presenting author: Johan Lif Akzo Nobel Functional Chemicals AB - Dept. of Applied Surface Chemistry, Chalmers University of Technology	DRE-10 P-114



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Deactivation and Reaction Engineering	Coral Gallery
<i>Title</i>	<i>Page</i>
An Approximate Analytical Solution for the Diffusion and Reaction Problem in a Catalyst Particle in the Presence of Coke Formation <i>Miguel A Morales-Cabrera - Tomás Viveros-García - Alberto Ochoa-Tapia</i> Presenting author: Alberto Ochoa-Tapia Universidad Autónoma Metropolitana-Iztapalapa	DRE-19 P-115
Deactivation of Catalyst during Hydrotreating of Residual-Derived Heavy Crude <i>Gustavo Marroquin - Jorge Ancheyta Juárez - Gerardo Betancourt - Guillermo Centeno</i> Presenting author: Gustavo Marroquin Instituto Mexicano del Petroleo	DRE-27 P-116
Cu Addition Effect to Suppress Carbon formation on Ni/Al₂O₃ catalyst during Dry Reforming <i>Jae-Hee Lee - Kwang-Deog Jung - Oh-Shim Joo</i> Presenting author: Oh-Shim Joo Korea Institute of Science of Technology	DRE-09 P-117
The performance of Co/ZrO₂/SiO₂ catalyst for F-T synthesis in fixed-bed reactor <i>Jiangang Chen - Dingguo Bian - Yuhuan Sun</i> Presenting author: Jiangang Chen Institute of Coal Chemistry, Chinese Academy of Sciences	DRE-13 P-118
Deactivation of Pt/Al₂O₃-La₂O₃ catalysts in the methylocyclopentane reaction <i>David Gonzalez - Nancy Martin</i> Presenting author: David Gonzalez Universidad Autonoma Metropolitana-Iztapalapa	DRE-26 P-119
Effect of sulphur on the stability of Pt-Re/Al₂O₃-Cl reforming catalysts <i>Jesus M. Bautista</i> Presenting author: Mr. Jesus M. Bautista Instituto Mexicano del Petroleo	DRE-23 P-120
Fundamental Studies in Catalysis	Coral Gallery
Carbon Monoxide Hydrogenation over Molybdenum Carbide in a CSTR <i>Patricia M Patterson - Tapan K Das - Burtron H Davis</i> Presenting author: Patricia M Patterson Center for Applied Energy Research, University of Kentucky	GEN-07 P-121
Pd-Cu Membrane for the Water Gas Shift Reaction <i>Ames Kulprathipanja - Michael J. Block - Gokhan Alptekin - John L. Falconer - J. Douglas Way</i> Presenting author: Ames Kulprathipanja University of Colorado - Colorado School of Mines - TDA Research, Inc.	GEN-11 P-122
Compensation Effects? <i>William Curtis Conner</i> Presenting author: William Curtis Conner University of Massachusetts	GEN-12 P-123
Kinetic study of hydrogenation of cyclohexanone over Sn/Pt(111) alloys <i>Amelia Olivas - Bruce E. Koel</i> Presenting author: Amelia Olivas CCMC-UNAM - USC	GEN-13 P-124
Activation of High-Alpha Iron Fischer-Tropsch Synthesis Catalyst <i>Mingsheng M. Luo</i> Presenting Author: Mingsheng M. Luo Center for Applied Energy Research	GEN-15 P-125
Competitive reaction between the hydrogenation and the cis/trans isomerization of methyl octadecenoate over CoSn catalysts. <i>Karine De Oliveira - Yannick Pouilloux - Jöel Barrault</i> Presenting Author: Yannick Pouilloux LACCO - CNRS - POITIERS	GEN-16 P-126



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Fundamental Studies in Catalysis	Coral Gallery
<i>Title</i>	<i>Page</i>
A New Explanation for the Deviation from Flory Distribution in Fischer-Tropsch Synthesis <i>Buchang Shi - Jinlin Li - Burtron H Davis</i> Presenting author: Buchang Shi Center for Applied Energy Research, University of Kentucky	GEN-22 P-127
In situ ATR-FTIR observation of transformation of the Ni species in a catalytic system for low-temperature methanol synthesis <i>Seiichi Ohyama</i> Presenting author: Seiichi Ohyama Central Research Institute of Electric Power Industry	GEN-25 P-128
Catalysis Science - U.S. Federal Funding Trends <i>Raul Miranda</i> Presenting author: Raul Miranda U.S. Department of Energy	GEN-28 P-129
H₂ Removal via Selective Combustion with O₂ During Alkane Dehydrogenation and Aromatization on Modified ZMS5 Catalysts <i>Toshio Waku - Joseph A. Biscardi - Sara Yu - Enrique Iglesia</i> Presenting author: Toshio Waku University of California, Berkeley - ChevronTexaco Research and Technology Co.	GEN-29 P-130
Selective Oxidation of Dimethylether to Formaldehyde on Small Molybdenum and Vanadium Oxide Domains <i>Haichao Liu - Patricia Cheung - Enrique Iglesia</i> Presenting author: Enrique Iglesia University of California, Berkeley	GEN-22 P-131
Fuel Cells	Coral Gallery
Hydrogen and Carbon Filament Production by Catalytic Decomposition of Methane on Ni-Al and Ni-Mg-Al Catalysts <i>Nieves Latorre - Jose I. Villacampa - Carlos Royo - Eva Romeo - José A. Montoya - Del Angel Paz - Antonio Monzon</i> Presenting author: Antonio Monzon University of Zaragoza - Instituto Mexicano del Petróleo	FCE-02 P-132
Investigation of the Initial Rapid Deactivation of Pt Catalysts during the Selective Oxidation of Co <i>Amornmart Sirijaruphan - James G. Goodwin, Jr. - Richard W. Rice</i> Presenting author: Amornmart Sirijaruphan Clemson University	FCE-04 P-133
Fuel Cell Grade Hydrogen from Methanol <i>Yongtaek Choi - Harvey Stenger</i> Presenting author: Yongtaek Choi Lehigh University	FCE-05 P-134
Ceria-supported gold catalysts for selective oxidation of carbon monoxide <i>Giuseppe Panzera - Andrea Donato - Vincenza Modafferi - Sebastiano Candamano - Pier Luigi Antonucci</i> Presenting author: Pier Luigi Antonucci University of Reggio Calabria	FCE-06 P-135
Selective CO Oxidation on Pt/Nb₂O₅ Catalysts for Fuel Cell Application <i>Donato A. G. Aranda - Mariana M V M Souza - Alexandre C C Rodrigues - Priscila M Siqueira - Ingridy S Lopes - Fabio B Passos</i> Presenting author: Donato A. G. Aranda Escola de Química- UFRJ - Núcleo de Catálise- COPPE/UFRJ - Departamento de Engenharia Química- UFF	FCE-08 P-136
Microlith Reactors for the Oxidative Steam Reforming of Methanol <i>Maxim Lyubovskiy - Subir Roychoudhury - Rene LaPierre</i> Presenting author: Maxim Lyubovskiy Precision Combustion, Inc.	FCE-10 P-137



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Fuel Cells	Coral Gallery
Title	Page
<p>CO Purification for Fuel Cells Using Selective Methanation Catalysts <i>Jon P. Wagner - Hiroshi Takeda</i> Presenting author: Jon P. Wagner Sud-Chemie Inc. - Sud-Chemie Japan Inc.</p>	FCE-11 P-138
<p>Hydrogen Production using Microchannel Reactors: Catalyst Application into Practical Portable Power Systems <i>Jamelyn D. Holladay - Daniel R. Palo - Max R. Phelps - Robert A Dagle - Ya-Huei Chin - Evan O. Jones - Ed G. Baker - Yong Wang</i> Presenting author: Jamelyn D. Holladay Pacific Northwest National Laboratory</p>	FCE-12 P-139
<p>Preferential oxidation of carbon monoxide in the presence of hydrogen (PROX) over ceria-zirconia supported noble metal catalysts <i>Attila Wootsch - Claude Descorme - Daneil Duprez</i> Presenting author: Claude Descorme LACCO-UMR 6503 CNRS-Université de Poitiers - Institute of Isotope and Surface Chemistry, CRC, HAS</p>	FCE-14 P-140
<p>Transition Metals on Oxide Ion Conducting Supports as Reforming Catalysts for Fuel Cell Systems <i>Theodore R Krause - Cecile Rossignol - Magali Ferrandon - John Kopasz - Jennifer Mawdsley - Joong-Myeon Bae</i> Presenting author: Theodore R Krause Argonne National Laboratory</p>	FCE-16 P-141
<p>Development of Carbon-Supported Anode Catalyst for Direct Methanol Fuel Cell Using Cr <i>Jae-Sik Choi - Heung Yong Ha - In-Hwan Oh - Seong-Ahn Hong - Ho-In Lee</i> Presenting author: Jae-Sik Choi Seoul National University - Korea Institute of Science and Technology</p>	FCE-22 P-142
Catalysis of Organic Reactions	Coral Gallery
<p>The Influence Of Support And Catalyst On The Stereospecific Partial Hydrogenation Of The Triple Bond In Phenyl Alkyl Acetylenics. <i>Norman M. Marín Astorga - Patricio Reyes Nuñez - Gina Pecchi Sanchez - Marcelo Oportus</i> Presenting author: Norman M. Marín Astorga Universidad de Concepción</p>	COS-03 P-143
<p>Application of a hydrogenation catalyst modified by formaldehyde <i>Oliver G Degischer - Roc Novi - Felix Roessler - Paul Rys</i> Presenting author: Roc Novi ETH Zurich Hoenggerberg, 8093 Zurich - Roche Vitamines Ltd, Bldg 214 Room 8, 4303 Kaiseraugst</p>	COS-10 P-144
<p>Catalytic activity of a polymer supported palladium complex in carbon-carbon bond forming reactions <i>Maria M. Dell'Anna - Piero Mastrorilli - Cosimo F. Nobile</i> Presenting author: Cosimo F. Nobile D.I.C.A. Chemistry Section of Polytechnic of Bari</p>	COS-12 P-145
<p>Heterogeneous gold catalysts: a versatile tool for the syntheses of fine chemicals <i>Candida Milone - Roberta Ingoglia - Maria Letizia Tropeano - Giovanni Neri - Carmelo Crisafulli - Signorino Galvagno</i> Presenting author: Signorino Galvagno Department of Industrial Chemistry and Materials Engineering, University of Messina - Department of Chemical Sciences, University of Catania</p>	COS-24 P-146
<p>Isomerization of pinene oxide to campholenic aldehyde over modified silica and titania nanoparticles <i>Giovanni Neri - Giuseppe Rizzo - Signorino Galvagno - Salvatore Loiacono - Andrea Donato - Maria Grazia Musolino - Rosario Pietropaolo</i> Presenting author: Rosario Pietropaolo Department of Industrial Chemistry and Materials Engineering, University of Messina - Department of Mechanics and Materials, University of Reggio Calabria</p>	COS-25 P-147



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Catalysis of Organic Reactions	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Selective Gas-phase Dehydrogenation of 4-Methylpentan-2-ol to 4-Methylpentan-2-one Using Mg-Zn-Al Ex-hydrotalcite Catalysts <i>Esteban Lopez-Salinas - Jaime Sanchez-Valente - Manuel Sanchez - Jose G. Espinosa - Francisco J. Hernández-Beltrán</i> Presenting author: Esteban Lopez-Salinas Instituto Mexicano del Petroleo</p>	<p>COS-27 P-148</p>
Biocatalysis	Coral Gallery
<p>The Immobilization of Penicillin Acylase on the Mesoporous Co-MCM-41 <i>Ping Xue - Guanzhong Lu - Liu Yang</i> Presenting author: Ping Xue Research Institute of Industrial Catalysis, East China University of Science and Technology - State Key Lab of Bioreactor Engineering, East China University of Science and Technology</p>	<p>BIO-2 P-149</p>
<p>Acid-Catalysed Hydrolysis of Rice Straw to Obtain Xylose Liquors Suitable as Fermentation Media <i>Inês Conceição Roberto - Solange Inês Mussatto - Rita de Cássia Lacerda Brambilla Rodrigues</i> Presenting author: Inês Conceição Roberto Faculty of Chemical Engineering of Lorena</p>	<p>BIO-3 P-150</p>
Synthesis and Structural Characterization of Novel Solid Acids and Bases	Coral Gallery
<p>Improved Solid-Acid Catalysis for Sustainable, High 2-Phenyl, LAB Production <i>John F. Knifton - Prakasa R. Anantaneni - P. Eugene Dai - Melvin Stockton</i> Presenting author: John F. Knifton Huntsman Corporation</p>	<p>ABC-01 P-151</p>
<p>Steric factors affecting the selectivity of ferrierite catalysts in the skeletal isomerization of butene <i>Gyorgy Onyestyak - Jozsef Valyon - Gabriella Pal Borbely</i> Presenting author: Gyorgy Onyestyak Institute of Chemistry, Chemical Research Center, Hungarian Academy of sciences</p>	<p>ABC-06 P-152</p>
<p>Selective N,N-methylation of Aniline Over Co-crystallized Zeolites RHO and Zeolite X (FAU) and Over Linde Type L (Sr,K-LTL) <i>Luis J Garces - Vinit D Makwana - Beatriz O Hincapie - Steven L Suib</i> Presenting author: Luis J Garces University of Connecticut</p>	<p>ABC-09 P-153</p>
<p>Activity Studies of Catalysts with Tailored Acid-Base and Oxidative-Reductive Properties within Polymer Matrices <i>Wincenty Turek - Mieczyslaw Lapkowski - Agata Czardybon - Wojciech Domagala - Joanna Debiec</i> Presenting author: Wincenty Turek Institute of Physical Chemistry and Technology of Polymers, Silesian Technical University, Strzody 9, 44 100 Gliwice, Poland</p>	<p>ABC-16 P-154</p>
<p>Catalytic Conversion of Isopropyl Alcohol over Heteropolyanion Doped Polypyrrole Containing Fe²⁺ and Fe³⁺ Ions as Cationic Species <i>Wincenty Turek - Joanna Debiec - Mieczyslaw Lapkowski - Adam Pron - Jean Louis Oddou</i> Presenting author: Mieczyslaw Lapkowski Institute of Physical Chemistry and Technology of Polymers, Silesian Technical University, Strzody 9, 44 100 Gliwice, Poland - Laboratoire de Physique des Metaux Synthetiques, UMR5819 (CEA-CNRS-Univ.J.Fourier-Grenoble), DRFMC, CEA-Grenoble, 17 Rue des Martyrs, 38054 Grenoble Cedex 9, France - Laboratoire de Physicochimie des Metaux en Biologie, CEA-Grenoble, 17 Rue des Martyrs, 38054 Grenoble Cedex 9, France</p>	<p>ABC-17 P-155</p>
<p>New approach for NaY crystallization under stirring <i>Alexandre F. Costa - José Marcos M. Ferreira - Eduardo F. Souza-Aguiar - Marcelo C. Amaral</i> Presenting author: José Marcos M. Ferreira PETROBRAS / CENPES - M-I Drilling Fluids</p>	<p>ABC-19 P-156</p>



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Synthesis and Structural Characterization of Novel Solid Acids and Bases	Coral Gallery
<i>Title</i>	<i>Page</i>
Propene oligomerization over ZSM-5 zeolites with varying crystal size <i>Feng Wang - Kegong Fang - Jinxian Hu - Jie Ren - Yuhan sun</i> Presenting author: Yuhan sun State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences	ABC-20 P-157
Reaction Chemistry and Functional characterization of solid acids and bases	
Coral Gallery	
The ring opening and cyclic oligomerisation reactions of an epoxide and an episulfide on solid acid catalysts in the liquid phase <i>Andras Fasi - Istvan Palinko - Agnes Gomory - Imre Kiricsi</i> Presenting author: Istvan Palinko University of Szeged - Chemical Research Center of the Hungarian Academy of Sciences	ABC-03 P-158
Characterization of acid sites in zeolite Beta by FT-IR and Meerwein-Ponndorf-Verley reaction <i>Burcu Akata - Juliusz Warzywoda - Alvin H. Weiss - Albert Sacco, Jr.</i> Presenting author: Burcu Akata Center for Advanced Microgravity Materials Processing, Department of Chemical Engineering, Northeastern University, Boston, MA	ABC-11 P-159
DME production from methanol dehydration over borica modified alumina <i>Andréa M. Duarte de Farias - Marco A. Fraga - Angela M. L. Esteves - Maria Isabel Pais da Silva - Lucia G. Appel</i> Presenting author: Andréa M. Duarte de Farias INT - Instituto Nacional de Tecnologia/LACAT - PUC (RJ) - Pontificia Universidade Catolica	ABC-12 P-160
Identification of active acid sites of fluorinated alumina catalysts dedicated to n-butene/isobutane alkylation <i>Martha I. Moreno - Alberto Rosas - Jorge Alcaraz - Martin Hernandez - Stephanie Toppi - Patrick Da Costa</i> Presenting author: Patrick Da Costa Facultad de química, UNAM, - Laboratoire Reactivite de surface, UMR 7609	ABC-13 P-161
Determination of Lewis and Bronsted acidity on Tungstophosphoric/titania Sol-Gel Derived Catalysts <i>Tessy López - Emma Ortíz-Islas - Juan Navarrete - Ricardo Gómez</i> Presenting author: Ricardo Gómez Universidad Autónoma Metropolitana-Iztapalapa - Instituto Mexicano del Petróleo	ABC-14 P-162
Acid Properties Of Sulfonics Clays By PY-FTIR And Dehydration Of Alcohols <i>Claudia Esmeralda Ramos - Guillermo Sandoval - Ricardo Garcia - Jose Manuel Dominguez - Juan Navarrete</i> Presenting author: Claudia Esmeralda Ramos Instituto Tecnológico De Ciudad Madero - Instituto Mexicano Del Petróleo	ABC-30 P-163
Correlation Of Acid Properties Of Zro2/So4 By Py-Ftir Technique And 1-Butanol Dehydration <i>Claudia Esmeralda Ramos - Ricardo Godoy - Guillermo Sandoval - Ricardo Garcia - Juan Navarrete</i> Presenting Author: Claudia Esmeralda Ramos Instituto Tecnológico De Ciudad Madero - Instituto Mexicano Del Petróleo	ABC-32 P-164
Evaluation of Relative Acid Strength of Sulfated Metal Oxides and Proton-type Zeolites by Heat of Argon Adsorption. <i>Hiromi Matsuhashi - Kazushi Arata</i> Presenting author: Hiromi Matsuhashi Hokkaido University of Education	ABC-18 P-165



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Nanocatalysts	Coral Gallery
Title	Page
<p>Characteristic Properties of Cr Containing Mesoporous Materials and Bulk Oxides <i>Padmanabha Reddy Ettireddy - Bo Sun - Panagiotis G Smirniotis - Mahinda Gangoda - Ruhnaz Kashfi - Rathindra N Bose</i> Presenting author: Panagiotis G Smirniotis University of Cincinnati, Cincinnati, OH 45221-0171, USA - Department of Chemistry, Kent State University, Kent, OH 44242, USA</p>	<p>NAN-55 P-166</p>
Spectroscopic characterization of Catalysts	Coral Gallery
<p>Hydrocarbon Attachment to Zeolite Fragments Using Laser Ablation Fourier Transform Ion Cyclotron Resonance Mass Spectroscopy <i>Steven M. Thornberg - Ion C. Abraham - Russell L. Jarek - Tina M. Nenoff - Genoveva Q. Buelna</i> Presenting author: Steven M. Thornberg Sandia National Laboratories</p>	<p>NAN-34 P-167</p>
<p>Development of a surface science model of the Houdry alkane dehydrogenation catalyst <i>Alicia Carrero Fernandes - Tom Visser - Onno L.J. Gijzeman - Ad Mens - Marjan Versluijs-Helder - Stan Tinnemans - Bert M. Weckhuysen</i> Presenting author: Bert M. Weckhuysen Departement Anorganische Chemie en Katalyse, Debye Instituut, Universiteit Utrecht</p>	<p>PRE-059 P-168</p>
<p>Innovative use of a Gas Chromatograph for heterogeneous catalytic studies <i>Alexey Ignatchenko</i> Presenting author: Alexey Ignatchenko Eastman Chemical Company</p>	<p>PRE-061 P-169</p>
<p>In-situ investigation of solid-liquid catalytic interfaces by attenuated total reflection infrared spectroscopy <i>Ivelisse Ortiz Hernandez - Christopher T. Williams</i> Presenting author: Ivelisse Ortiz Hernandez University of South Carolina</p>	<p>PRE-062 P-170</p>
<p>The Application of inverse-Gas Chromatography to reveal Surface Energetics on Catalyst, Absorbent and Polymer Film Systems. <i>Stephen Bailey - Malcolm Kett</i> Presenting author: Stephen Bailey Syntex</p>	<p>PRE-070 P-171</p>
Catalyst characterization by Raman spectroscopy	Coral Gallery
<p>Operando Raman-CG studies of the changes that occur on alumina-supported Sb-V catalysts during propane ammoxidation <i>Olga Guerrero-Pérez - Miguel A. Bañares</i> Presenting author: Olga Guerrero-Pérez Instituto de Catálisis y Petroleoquímica</p>	<p>PRE-001 P-172</p>
<p>Structural changes of Ce-Pr-O mixed oxides under hydrogen: study by in situ X-ray diffraction and Raman spectroscopy. <i>Sylvie Rossignol - Francois Gerard - Danielle Mesnard - Charles J. Kappenstein - Daniel Duprez</i> Presenting author: Sylvie Rossignol University of Poitiers, LACCO UMR6503, Laboratoire de Catalyse par les Métaux</p>	<p>PRE-013 P-173</p>
<p>Synthesis and Characterization of Hydrogel CMC/PVA, AC/PVA and TMSC/PAAm using Catalyst Inorganic <i>Valeria Rivas - Elizabeth Adriana Morales - Martina Martínez - Ana María Mendoza - Ana Beatriz Morales - Yolanda Chávez - Rocío Antonio</i> Presenting author: Rocío Antonio División de Estudios de Posgrado e Investigación del I.T.C.M</p>	<p>COS-40 P-174</p>
<p>Improvement of catalysts for the decomposition of monopropellants for space applications - Comparison between aerogels and xerogels <i>Laurence Courthéoux - Florin Popa - Sylvie Rossignol - Charles J. Kappenstein</i> Presenting author: Laurence Courthéoux University of poitiers, Lacco UMR 6503, Laboratoire de catalyse par les métaux</p>	<p>PRE-024 P-175</p>



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Catalyst characterization by Raman spectroscopy	Coral Gallery
<i>Title</i>	<i>Page</i>
Characterization and Selective Oxidation Studies over Peroxovanadate-Derived Vanadia and Vanadium Molybdenum Oxide Gels <i>William D Schroeder - Dinesh C Yeragi - Glenn L Schrader</i> Presenting author: Dinesh C Yeragi Iowa State University, Department of Chemical Engineering	PRE-056 P-176
Novel catalyst preparation techniques	Coral Gallery
Monitoring the Preparation Process of NiO/Al₂O₃ Catalysts <i>Xinjie Zhang - Yong Wang - Kuiyang Jiang - Jianli Hu - Xiaohong Li - Todd A Werpy</i> Presenting author: Xinjie Zhang Pacific Northwest National Laboratory/DOE - Rensselaer Nanotechnology Center, Rensselaer Polytechnic Institute	PRE-016 P-177
Preparation and Catalytic Properties of Rare-Earth-Modified Alumina from Solution of Pseudoboehmite <i>Huiping Tian - Jun Long - Weiguang Lu</i> Presenting author: Huiping Tian Research Institute of Petroleum Processing, SINOPEC, 18 Xueyuan Rd., Beijing 100083, China	IND-21 P-178
Synthesis of hybrid materials composed by crystalline zeolites and non-crystalline MCM-41 phases at low temperature <i>Sandra Selene Ramirez - Jose Manuel M Dominguez Esquivel - Luz Arcelia Garcia Serrano - Angeles Mantilla</i> Presenting author: Sandra Selene Ramirez Petroleum Institute of Mexico	PRE-029 P-179
A New Pretreatment for More Stable Pt over Al₂O₃ <i>In Hyuk Son - Moon Chan Kim - Alan M. Lane</i> Presenting author: In Hyuk Son University of Alabama, Department of Chemical Engineering - Chongju University, Department of Environmental Engineering	PRE-030 P-180
Gallium-Promoted Sulphated Zirconia System: Synthesis, Physical-Chemical Characterisation and n-Butane Isomerisation Activity <i>Michela Signoretto - Francesco Pinna - Filippo Somma - Stefano Melada - Giuseppina Cerrato - Claudio Morterra - Montserrat Rodriguez Delgado - C. Otero Arean - Patrizia Canton</i> Presenting author: Michela Signoretto University of Venice, Dept. of Chemistry and Physical Chemistry - University of Turin - University of Balears Islands	PRE-032 P-181
Selective modification of palladium sites by successive surface redox reactions : Preparation and characterization of trimetallic Pd-Au-Sn/Al₂O₃ catalysts <i>Anthony Garron - Florence Epron</i> Presenting author: Anthony Garron Laboratoire de Catalyse en Chimie Organique, UMR 6503, CNRS, Université de Poitiers	PRE-033 P-182
Control of Heterogeneous Base Catalyst pKa and Activity Using Materials Synthesis by Design <i>John D. Bass - Sandra L. Anderson - Nicholas Parra-Vasquez - Alexander Katz</i> Presenting author: Alexander Katz University of California at Berkeley	PRE-041 P-183
Supported Tantalum Oxide Catalysts: Synthesis, Characterization and Methanol Oxidation <i>Yongsheng Chen - José Luis Garcia Fierro - Tsunehiro Tanaka - Israel E. Wachs</i> Presenting author: Yongsheng Chen Lehigh University - Instituto de Catalisis y Petroleoquímica, CSIC - Kyoto University	PRE-050 P-184
A Soft-Chemical Method to Synthesize Lewis Acid Surfaces of Aluminum Oxide <i>Alexandr I. Kozlov - Mayfair C. Kung - Wen-Mei Xue - Harold H. Kung</i> Presenting author: Harold H. Kung Department of Chemical Engineering, Northwestern University	PRE-054 P-185
Preparation and reactivity of binuclear iron clusters synthesized via FeCl₃ sublimation onto HZSM5 <i>Johannes Hendrik Bitter - Andrea Battiston - Diek Koningsberger</i> Presenting author: Johannes Hendrik Bitter Utrecht University	PRE-065 P-186



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Novel catalyst preparation techniques	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Synthesis of Mn-Fe Hydrotalcite-like Compounds <i>Sergio Odin Flores - Mario Alberto Trejo - Ivan Alejandro Córdova - Miguel Angel Valenzuela - Beatriz Zapata</i> Presenting author: Sergio Odin Flores Laboratorio de Catálisis y Materiales, UPALM Ed. 8 Zacatenco 07738, D. F.</p>	PRE-068 P-187
<p>Synthesis, Characterization And Catalytic Activity Of Sulfated Zirconia <i>Juan Manuel Hernández Enriquez - Alfredo Castillo Mares - Tessy María López Goerne - Rebeca Silva Rodrigo</i> Presenting Author: Rebeca Silva Rodrigo Instituto Tecnológico De Ciudad Madero - Universidad Autonoma Metropolitana Unidad Iztapalapa</p>	PRE-069 P-188
Mesoporous and Nanocomposite Catalysts	Coral Gallery
<p>Gallium-loaded zeolite obtained by chemical vapor deposition of dimethylgallium <i>Mayela Garcia Sanchez - Emiel J.M. Hensen - Pieter C.M.M. Magusin - Rutger A. van Santen</i> Presenting author: Mayela Garcia Sanchez Schuit Institute of Catalysis, Eindhoven University of Technology</p>	PRE-009 P-189
<p>Influence of the type of anion in the exchange process on the wall thickness of FSM-16 <i>Patricia Pérez Romo - María de Lourdes A. Guzmán Castillo - Héctor Armendáriz Herrera - Juan Navarrete Bolaños - Dwight Acosta - Asención Montoya de la Fuente</i> Presenting author: Patricia Pérez Romo Instituto Mexicano del Petróleo</p>	PRE-011 P-190
<p>Zn- and Cd-zeolites for catalytic hydration of acetylene <i>Gyorgy Onyestyak - Denes Kallo</i> Presenting author: Gyorgy Onyestyak Institute of Chemistry, Chemical Research Center, Hungarian Academy of sciences</p>	PRE-012 P-191
<p>Co(Ni) Mo supported TiO₂-SiO₂ hydrotreating catalysts: physico-chemical characterization and activities <i>Mohan S. Rana - Samir K. Maity - Jorge Ancheyta Juárez - G. Murali Dhar - T. S R. Prasada Rao</i> Presenting author: Mohan S. Rana Instituto Mexicano del Petróleo, Eje Central Lázaro Cárdenas 152, México City, 07730, Mexico - "Indian Institute of Petroleum, Dehradun, Uttaranchal 245008, India</p>	PRE-017 P-192
<p>Synthesis of Mesoporous Alumina-Titania in the Presence of a Non Ionic Surfactant using Complexing Agents <i>Veronica Gonzalez-Peña - Carlos Marquez-Alvarez - Joaquin Perez-Pariente</i> Presenting author: Veronica Gonzalez-Peña Instituto de Catálisis y Petroleoquímica, CSIC</p>	GEN-19 P-193
<p>On the Preparation of High Surface Area CeO₂-ZrO₂ Mixed Oxides <i>Sonia Letichevsky - Marco A Fraga - Claudio A Tellez - Roberto R. de Avillez - Maria Isabel P. da Silva - Lucia G. Appel</i> Presenting author: Marco A Fraga Pontificia Universidade Católica do Rio de Janeiro - Instituto Nacional de Tecnologia</p>	PRE-025 P-194
<p>Characterization and hydrothermal stability of Ti-MCM-41 <i>Persi Schacht Hernández - Luis Noreña - Jorge Ancheyta Juárez - Luz Arcelia García Serrano - Sergio Ramírez Amador</i> Presenting author: Persi Schacht Hernández Universidad Autónoma Metropolitana Azcapotzalco - Instituto Mexicano del Petróleo</p>	PRE-026 P-195
<p>The roles of nitrate in the preparation of Ni/Al₂O₃ catalysts by impregnation <i>Vicente Rodríguez Gonzalez - Fabien Negrier - Eric Marceau - Michel Che</i> Presenting author: Vicente Rodríguez Gonzalez Laboratoire de Réactivité de Surface (UMR 7609-CNRS), Université Pierre et Marie Curie</p>	PRE-037 P-196
<p>Adsorption Behavior of Acidic and Basic Platinum Precursors on Alumina and Ceria-Zirconia <i>Bahman Rejai - Stephen J. Golden - Don Zeng - George M. Malouf</i> Presenting author: Bahman Rejai Catalytic Solutions, Inc. - Heraeus, Inc.</p>	PRE-039 P-197



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Monday June 2, 2003	
Mesoporous and Nanocomposite Catalysts	Coral Gallery
Title	Page
<p>Correlation of porosity and conversion reaction during carbon gasification <i>Alejandro Robau-Sanchez - Alfredo Aguilar-Elguézabal - Obed Chimal-Valencia - Daniel Lardizabal-Gutierrez</i> Presenting author: <i>Alejandro Robau-Sanchez</i> CIMAV</p>	PRE-042 P-198
<p>Effect of Support Modification on the Structure and Catalytic Performance of Co/SiO₂ Catalysts for Fischer-Tropsch Synthesis <i>Hongxia Zhao Hongxia Zhao - Jiangang Chen - Yuhan Sun Yuhan Sun</i> Presenting author: Jiangang Chen Institute of Coal Chemistry, Chinese Academy of Sciences</p>	PRE-043 P-199
<p>Effect of the Si/Al ratio in the Isobutane/Isobutene Alkylation Reaction with beta zeolite <i>Daniel Jeronimo Garcia - Luz Arcelia Garcia Serrano - Angeles Mantilla Ramirez - Gabriel Pineda Velazquez</i> Presenting author: Daniel Jeronimo Garcia IMP</p>	PRE-044 P-200
<p>Porosity distribution in spherical activated carbon particles <i>Alejandro Robau-Sanchez - Alfredo Aguilar-Elguézabal - Obed Chimal-Valencia - Luis de la Torre Saenz - Manuel Roman-Aguirre</i> Presenting author: <i>Alejandro Robau-Sanchez</i> CIMAV</p>	PRE-047 P-201
<p>Deactivation Properties of Ti-Modified Pd/SiO₂ Catalysts in Selective Hydrogenation of Acetylene <i>Woo Jae Kim - Jung Hwa Kang - Jung Hwan Kim - In Young Ahn - Sang Heup Moon</i> Presenting author: Woo Jae Kim Seoul National University</p>	PRE-057 P-202
<p>Monolithic catalyst for VOC combustion from perovskite powders with controlled characteristics <i>Antonello A. Barresi - Javier Rivera</i> Presenting author: Javier Rivera Dip. Scienze dei Materiali e Ingegneria Chimica, Politecnico de Torino</p>	PRE-002 P-203
<p>Catalytic Probes of the Surface Statistics of Palladium Crystallites Deposited on Montmorillonite <i>Zoltan Kiraly - Bernadett Veisz - Agnes Mastalir</i> Presenting author: Agnes Mastalir Department of Colloid Chemistry, University of Szeged - Department of Organic Chemistry, University of Szeged</p>	PRE-006 P-204



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Catalysts for Air Pollution Abatement	Coral Gallery
Title	Page
<p>Comparative Study of Reaction Mechanisms in SCR of NO with Propene on MFI-based and Pt-based Catalysts Using Temperature Programmed Technique. <i>Piyasan Prasertthdam - Choowong Chaisuk - Apiwat Panit</i> Presenting author: Piyasan Prasertthdam Research Center on Catalysis and Catalytic Reaction Engineering, Department of Chemical Engineering, Chulalongkorn University, Bangkok, Thailand.</p>	ENV-094 P-205
<p>High Throughput Screening for Environmental Catalysis Development <i>Peter Thormählen - Erik Timander - Ali Saramat - Magnus Skoglundh - Bengt Kasemo</i> Presenting author: Peter Thormählen Competence Centre for Catalysis - Department of Applied Physics - Department of Applied Surface Chemistry</p>	ENV-100 P-206
<p>Hydrocarbon SCR by Plasma Enhanced Catalysis over Nano-Size Gold Supported on Alumina for Lean NO_x Treatment <i>Dae-Won Lee - Jae-Hong Ryu - Dong-Hoon Jeong - ABC-35 Lee - Kwang Min Chun - Kwan-Young Lee</i> Presenting author: Kwan-Young Lee Korea University - BluePlanet Co. - Yonsei University</p>	ENV-101 P-207
<p>Mechanistic and Comparative Studies of NO_x Oxidation, Storage, and Reduction in Pt/BaY and Pt/BaO/Al₂O₃ <i>Bryan A Silletti - Jerry J Spivey - Alexander G Panov - H. Henry Lamb</i> Presenting author: Bryan A Silletti North Carolina State University - Louisiana State University - Caterpillar, Inc.</p>	ENV-102 P-208
<p>Monitoring and Containment of Fugitive Emissions from Valve Stems – Electrical Conductivity and Gas Adsorption Measurements on Metal Oxides <i>James E MacKay - Kevin J Smith</i> Presenting author: James E MacKay Department of Chemical and Biological Engineering, University of British Columbia</p>	ENV-103 P-209
<p>NO_x storage/reduction” Pt-Ba/Al₂O₃ catalysts: effect of Ba loading on catalytic performances <i>Lidia Castoldi - Isabella Nova - Luca Lietti - Enrico Tronconi - Pio Forzatti</i> Presenting author: Lidia Castoldi Politecnico di Milano- Dip. di Chimica, Materiali e Ingegneria Chimica</p>	ENV-105 P-210
<p>Study of the kinetics of the NO_x storage over a Pt-Ba/Al₂O₃ lean deNO_x catalyst <i>Isabella Nova - Andrea Scotti - Enrico Tronconi - Luca Lietti - Pio Forzatti</i> Presenting author: Isabella Nova Politecnico di Milano- Dip. di Chimica, Materiali e Ingegneria Chimica</p>	ENV-111 P-211
<p>Effect Of Rh-Based Additives On The Reduction Of NO_x Emissions From The Regenerator Of A Fluid Catalytic Cracking (FCC) Unit <i>Eleni F Iliopoulou - Evangelos A Efstathiadis - Iakovos A Vasalos</i> Presenting author: Eleni F Iliopoulou Centre for Research and Technology Hellas/Chemical Process Engineering Research Institute - Department of Chemical Engineering, Aristoteles University of Thessaloniki,</p>	ENV-120 P-212
<p>Selective Catalytic Reduction of N₂O, NO+N₂O and NO by NH₃ or Decane and Catalytic Decomposition of N₂O over Fe-Zeolite Catalysts <i>Ariel Guzmán Vargas - Gérard Delahay - Bernard Coq - Pedro Bosch</i> Presenting author: Ariel Guzmán Vargas LMCCC UMR 5618 CNRS-ENSCM - Instituto de Investigación en Materiales UNAM</p>	ENV-121 P-213
<p>Redox behaviour of alumina-supported silver: Impregnation vs sol-gel routes and implications for hydrocarbon-assisted NO_x reduction under lean conditions <i>Manfred Richter - Anna Abramova - Nina Bogdanchikova - Angelika Brückner - Dinyar Captain - Reinhard Eckelt - Rolf Fricke</i> Presenting author: Manfred Richter Institute for Applied Chemistry, PO Box 96 11 56, D-12474 Berlin - CICESE, Tijuana-Ensenada, Apdo Postal 2732, B. C. 22800</p>	ENV-128 P-214



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Catalysts for Air Pollution Abatement	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Gas-And Liquid-Phase Reactions On Sulphated Zirconia Prepared By Precipitation <i>Michela Signoretto - Francesco Pinna - Stefano Melada - Giuseppina Cerrato - Giuseppina Meligrana - Claudio Morterra</i> Presenting author: Michela Signoretto Department of Chemistry, University of Venice, Calle Larga S. Marta 2137, I-30123 Venice - Department of Chemistry IFM, University of Turin, Via P. Giuria 7, I-10125, Turin</p>	ENV-019 P-215
<p>Gold supported on activated carbon fibers as novel structured catalysts for environmental protection <i>Dmitri A. Bulushev - Liubov Kiwi-Minsker - Igor Iouranov - Albert Renken</i> Presenting author: Dmitri A. Bulushev Swiss Federal Institute of Technology, LGRC-EPFL</p>	ENV-131 P-216
<p>Reduction of NO_x with NH₃ and O₂ Over a Cu-HZSM-5 Catalyst <i>Isaias Hernandez-Perez - A Torres-Ponce - Luis E Norena-Franco - Julia Aguilar-Pliego - Fernando Chavez-Rivas - R Zamoranp-Ulloa - J J Castro-Arellano</i> Presenting author: Isaias Hernandez-Perez Universidad Autonoma Metropolitana Azcapotzalco - ESFM Instituto Politecnico Nacional - ESIQIE Instituto Politecnico Nacional</p>	ENV-134 P-217
<p>CuO supported on mixed oxides catalysts for NO reduction by CH₄. <i>Raul Pérez-Hernández - B. Mercado - Jesus Arenas - Demetrio Mendoza - Antonio Gómez-Cortés - Gabriela Diaz</i> Presenting author: Raul Pérez-Hernández ININ Carretera México-Toluca Km 36.5 Salazar, Edo de México México - FQ-UAEM - Instituto de Física-UNAM</p>	ENV-135 P-218
Catalysts for Clean Energy and Clean Fuel Technologies	Coral Gallery
<p>Ti-containing Ru/Zeolite Catalysts for CO₂ Reforming of Methane <i>Jose Maria Correa Bueno - Clelia Maria de Paula Marques - Sonia Damyanova</i> Presenting author: Jose Maria Correa Bueno DEQ-Universidade Federal de Sao Carlos - DQ-Universidade Federal de Sao Carlos - Institute of Catalysis, Bulgarian Academy of Sciences</p>	ENV-065 P-219
<p>Characterization of Base Sites on Molybdenum Nitride Catalysts <i>Randolph C.V. McGee - Shyamal K Bej - Levi T Thompson</i> Presenting author: Randolph C.V. McGee University Of Michigan, Ann Arbor</p>	ENV-080 P-220
<p>Study of the Molybdenum Species in Mo/H-ZSM5 by UV-Difuse Reflectance Spectroscopy for Non-Oxidative CH₄ Reactions. Correlation Between Catalyst Activation and Catalytic Activity. <i>Edson L. Rodrigues - Maria I. Souza - José L. F. Monteiro - Fábio B. Noronha - Victor Teixeira da Silva</i> Presenting author: Victor Teixeira da Silva Instituto Militar de Engenharia - Instituto Nacional de Tecnologia - NUCAT/COPPE/UFRJ</p>	ENV-086 P-221
<p>A Study of Carbon Deposition over Sulfated Pt/Al₂O₃ and Pt-Sn/Al₂O₃ after C₃H₈-NO-O₂-SO₂ reaction under Lean Conditions. <i>Grisel Corro - José Luis García Fierro - Ramón Montiel - Fortino Bañuelos</i> Presenting author: Grisel Corro Benemérita Universidad Autónoma de Puebla</p>	ENV-090 P-222
<p>Additives for SO_x removal Based on Hydrotalcites Mg-Al Supported on Titania and Modified with Ce and V <i>Antonio Javier García - Rogelio Cuevas - Francisco Pedraza - Ana Alejandra Vargas - Cecilia Salcedo - Beatriz Mar - Jorge Ramirez</i> Presenting author: Rogelio Cuevas UNICAT, Depto. Ing. Química, Facultad de Química, UNAM - Instituto Mexicano del Petroleo</p>	ENV-091 P-223
<p>Role of Zn on Zn/Alumina Additives and Their Effects on Gasolines Sulfur Reduction in FCC Process <i>Jaime Sanchez-Valente - Roberto Quintana-Solorzano - Francisco J. Hernández-Beltrán</i> Presenting author: Jaime Sanchez-Valente Instituto Mexicano del Petroleo</p>	ENV-107 P-224



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Catalysts for Clean Energy and Clean Fuel Technologies	Coral Gallery
<i>Title</i>	<i>Page</i>
Tuning the anchorage of sulphonic acid groups on silica surfaces through selective oxidation of thiol groups <i>Encarnación Cano-Serrano - Jose M Campos-Martín - José Luis García Fierro</i> Presenting author: Jose M Campos-Martín Instituto de Catálisis y Petroleoquímica, CSIC	ENV-115 P-225
Water Gas Shift Reaction on Pt- α (α=Mo, Re and W) Catalyst <i>Takeshi Hirabayashi - Tetsuo Nagami - Shinji Tsuji - Shin-ichi Matsumoto</i> Presenting author: Takeshi Hirabayashi Toyota Motor Co.	ENV-116 P-226
Performance of Fluorine-added, Sonochemically prepared MoS₂/Al₂O₃ Catalysts in the Hydrodesulfurization of Dibenzothiophene Compounds <i>Heeyeon Kim - Jung Joon Lee - Jae Hyun Koh - Sang Heup Moon</i> Presenting author: Sang Heup Moon Seoul National University	ENV-123 P-227
SO_x additives of FCC catalysts based on CeO₂/Mg,Al-mixed oxides <i>Carla Maria S Polato - Cristiane A Henriques - Jose Luiz F Monteiro</i> Presenting author: Jose Luiz F Monteiro Universidade Federal do Rio de Janeiro - Universidade do Estado do Rio de Janeiro	ENV-130 P-228
Green Chemistry and Engineering through Catalysis	Coral Gallery
One step preparation of Ni supported on mesoporous silica (SBA-15) for the selective hydrodechlorination of 1,1,2-trichloroethane to VCM <i>Younggeun Park - Taewook Kang - Wha Young Lee - Kyunghee Choi - Jongheop Yi</i> Presenting author: Younggeun Park Seoul National University - National Institute of Environmental Research (NIER)	ENV-084 P-229
Supported ionic liquid phase (SILP) catalysts for hydroformylation <i>A. Riisager - K.M. Eriksen - R. Fehrmann - P. Wasserscheid</i> Presenting author: A. Riisager Interdisciplinary Research Center for Catalysis (ICAT) and Department of Chemistry, Technical University of Denmark - Institut für Technische Chemie und Makromolekulare Chemie, RWTH, Aachen	ENV-087 P-230
Electro-organic Synthesis of N-hexyl Carbamate by Carbonylation of Methanol and Hexylamine with CO over Au Supported on Carbon anode <i>Roberto Garcia de Leon - Ichiro Yamanaka - Kiyoshi Otsuka</i> Presenting author: Roberto Garcia de Leon Instituto Mexicano del Petroleo - Tokyo Institute of Technology	ENV-097 P-231
N-alkylation of Nitrobenzene and Aniline Promoted by Heterogeneous Copper Catalysts. <i>Michele Gargano - Salvatore Doronzo - Potenzo Giannoccaro - Antonio Leoci</i> Presenting author: Michele Gargano Dipartimento di Chimica Università di Bari - Via Orabona, 4 70126 Bari	ENV-104 P-232
Selective oxidation of glucose on Bi- or Ru-promoted Pd/C catalysts: influence of the preparation method and mechanistic studies <i>Sophie Hermans - Mireille Wenkin - Michel Devillers</i> Presenting author: Sophie Hermans Université Catholique de Louvain	ENV-109 P-233
Sustainable Development: Efficiency And Recycling In Chemicals Manufacturing <i>Jean-Paul Lange</i> Presenting author: Jean-Paul Lange Shell Research & Technology Centre	ENV-112 P-234
Synthesis of amorphous silica-supported titanium catalysts with triethanolamine titanate for alkene epoxidation with dilute hydrogen peroxide <i>Maricarmen Capel-Sanchez - Jose M Campos-Martín - José Luis García Fierro</i> Presenting author: Maricarmen Capel-Sanchez Instituto de Catálisis y Petroleoquímica, CSIC	ENV-113 P-235



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Green Chemistry and Engineering through Catalysis	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Catalytic abatement of methylene chloride by titania supported Pd catalysts. <i>Beatriz Helena Aristizabal Zuluaga - Leidy Marcela Martínez Tejada - Consuelo Montes de Correa</i> Presenting author: Beatriz Helena Aristizabal Zuluaga Universidad de Antioquia</p>	ENV-117 P-236
<p>Tetrachloromethane Hydrodechlorination over WC : Influence of Surface Stoichiometry <i>Jean-Marc Giraudon</i> Presenting author: Jean Marc Giraudon Université des Sciences et Technologies de Lille</p>	ENV-126 P-237
<p>Hydrodechlorination of polychloro-benzenes and polychlorinated aliphatic compounds under mild conditions by Pd and Rh ions or their complexes intercalated in g-zirconium phosphate <i>Potenzo Giannoccaro - Michele Aresta - Salvatore Doronzo - Michele Gargano - Carla Ferragina - Antonio Leoci - Davide Zammiello</i> Presenting author: Potenzo Giannoccaro University of Bari - Department of Chemistry - Istituto di Metodologie Inorganiche e dei Plasmi (IMIP) CNR - INCA Consortium, Unit of Bari, Metea Research Centre</p>	ENV-132 P-238
<p>Studies on Sulfated and Manganese Doped sulfated ZrO₂-TiO₂ Mixed Oxide Catalyst: Effect of Hydrogen as the Carrier Gas on Isopropylation Activity <i>Dharani Dhar Das - Himangshu K. Mishra - Ajay Kumar Dalai - Kulamani Parida</i> Presenting author: Ajay Kumar Dalai Catalysis and Chemical Reaction Engineering Laboratory, Department of Chemical Engineering, University of Saskatchewan, Saskatoon, SK Canada S7N 5C5 - Environ Management and Inorganic Chemicals Division, Regional Research Laboratory (CSIR), Bhubaneswar, India 751 013</p>	ENV-074 P-239
Catalysis by Metallic Nanoparticles	Coral Gallery
<p>Electrocatalytic Room Temperature Conversion of CO₂ to Hydrocarbons in the Gas Phase using GDM containing Noble Metal Nanoclusters <i>Gabriele Centi - Siglinda Perathoner</i> Presenting author: Gabriele Centi Dip. di Chimica Industriale ed Ingegneria dei Materiali and European Laboratory for Catalysis and Surface Science (ELCASS), University of Messina</p>	NAN-24 P-240
<p>Control of catalytic properties of Pt/ZSM-5 by the nanolocation of active sites <i>In Ha Oh - Kwang Seok Oh - Myoung Rae Kim - Yong Ki Park - Seong Ihl Woo</i> Presenting author: Seong Ihl Woo Korea Advanced Institute of Science and Technology - Korea Research Institute of Chemical Technology</p>	NAN-33 P-241
<p>Pd/Pt nanoparticles with the controlled size in mesoporous silicas for catalytic combustion <i>Lioubov Kiwi-Minsker - Igor Yuranov - Albert Renken</i> Presenting author: Lioubov Kiwi-Minsker Swiss Federal Institute of Technology, Laboratory of Chemical Reaction Engineering</p>	NAN-36 P-242
<p>Synthesis, Structural Characterization and Catalytic Performance of Gold-Nanoparticle Catalysts on Mesoporous Supports <i>Steven H Overbury - Sheng Dai</i> Presenting author: Steven H Overbury Oak Ridge National Laboratory - University of Delaware - University of South Carolina</p>	NAN-40 P-243
<p>Characterization and Reactivity of Gold Nanoparticles Supported on TiO₂ Prepared by Deposition-Precipitation with NaOH and Urea <i>Rodolfo Zanella - Catherine Louis - Suzanne Giorgio - Claude R. Henry - Chae-Ho Shin</i> Presenting author: Catherine Louis Laboratoire de Réactivité de Surface, UMR 7609 CNRS, Université P. et M. Curie, 4, Place Jussieu, 75252 Paris Cedex - CRMC2 CNRS, Campus de Luminy, case 913, 13288 Marseille Cedex - Department of Chemical Engineering, Chungbuk National University Cheongju, Chungbuk 361-763</p>	NAN-47 P-244
<p>Gas Phase Catalytic Cracking of Catechol Using Nano-Particle Iron Oxide <i>Eun-Jae Shin</i> Presenting author: Eun-Jae Shin Philip Morris USA</p>	NAN-48 P-245



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Mesoporous and Nanocomposite Catalysts	Coral Gallery
<i>Title</i>	<i>Page</i>
Catalytic Activity of mesostructured aluminas <i>Jose A. Toledo-Antonio - Xim Bokhimi - Armando Vazquez - Francisco J. Hernández-Beltrán</i> Presenting author: Jose A. Toledo-Antonio Instituto Mexicano del Petroleo - Institute of Physics, UNAM	NAN-46 P-246
Micro Scale Patterning Of Perovskite Type Nano Particulate <i>Jin Soo Hwang - Dae Hoon Lee - Jeong Hoon Cho - Sang-Eon Park - Sejin Kwon</i> Presenting author: Jin Soo Hwang Korea Advanced Institute of Science and Technology - Korea Research Institute of Chemical Technology	NAN-50 P-247
Novel SiO₂ Nanostructures formed by "Green" Solvent-free Synthesis <i>James L Gole - Alexei V Iretskii - Brian K Shinall - Mark G. White - W. Brent Carter</i> Presenting author: Mark G. White Georgia Institute of Technology - Lake Superior State University	NAN-52 P-248
Synthesis and Characterization of W-Fe, W-Co, Mo-Fe and Mo-Co Sulfide Catalysts <i>Isaela Villalpando - Amelia Olivas - Eric Flores - Sergio Fuentes Moyado</i> Presenting author: Isaela Villalpando CICESE - CCMC-UNAM	NAN-38 P-249
Probing the Micropore Accessibility in Mordenite Crystals Using Diffusion and Coking studies <i>S. van Donk - Johannes Hendrik Bitter - M. Versluijs-Helder - A. Verberckmoes - K. P. de Jong</i> Presenting author: K. P. de Jong Inorganic Chemistry and Catalysis - Exxon Mobil, Belgium	NAN-57 P-250
Catalysts for HDS of Liquid Fuels	Coral Gallery
A New Reaction Mechanism In Hydrodesulfurization <i>Marcos May</i> Presenting author: Marcos May Universidad Autonoma Metropolitana-Azcapotzalco	HHC-02 P-251
Nano-structural high efficiency oxide catalysts for the ortho-xylene vapour's selective oxidation <i>Petr V. Rogovsky - Alexey A. Evstratov - Stanislav I. Koltsov</i> Presenting author: Alexey A. Evstratov Saint-Petersburg State Institute of Technology (Technical University) - Ales Mining School, 6, avenue de Clavieres, 30319 Alès, France - Saint-Petersburg State Institute of Technology (Technical University), 26, avenue Moskovsky, 198013 St.-Petersburg, Russia	NAN-58 P-252
Effect of chelating agents on the preparation and activity of HDS catalysts. <i>Mazoyer-Galliou Pauline - Geantet Christophe - Lacroix Michel - Diehl Fabrice</i> Presenting author: Mazoyer-Galliou Pauline Institut de Recherches sur la Catalyse - Institut Français du Pétrole	HHC-17 P-253
Catalysts M/MoS₂/MCM-41 (M=Ni, Co, Fe, Ru) activated by two routes for HDS of DBT <i>Karla T Millán Estrada - Carlos E Ornelas Gutiérrez - Jaime Espino Valencia - Francisco Paraguay - Alfredo Aguilar Elguezabal - Gabriel Alonso Núñez</i> Presenting author: Karla T Millán Estrada Centro de Investigación en Materiales Avanzados, S.C.	HHC-24 P-254
NiMo catalysts supported on Al-containing MCM-41 and their behavior in DBT hydrodesulfurization. <i>Tatiana E. Klimova - Mario A. Calderón - Jorge F. Ramírez</i> Presenting author: Tatiana E. Klimova Facultad de Química, UNAM	HHC-44 P-255
Fundamental Studies in Catalysis	Coral Gallery
A Comparative Study of the Hydrotreating Kinetics of Straight Run and Demetallized Kuwaiti Atmospheric Residues Over an Industrial Ni-Mo/Al₂O₃ Catalyst <i>Abdulazim MJ Marafi - Hamza Al-Bazzaz - Antony Stanislaus</i> Presenting author: Abdulazim MJ Marafi Kuwait Institute for Scientific Research (KISR), Petroleum Research & Studies Center	HHC-03 P-256



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Fundamental Studies in Catalysis	Coral Gallery
Title	Page
<p>Some Interesting Parameters Influencing Catalytic Properties Of CoMoS For HDS <i>Lorena Alvarez Contreras - Luz A. Ponce Escobar - Jaime Espino Valencia - José L Rico Cerda - Carlos E Ornelas G. - Sergio Fuentes Moyado - Gilles D Berhault - Gabriel Alonso Nuñez</i> Presenting author: Lorena Alvarez Contreras Centro de Investigación en Materiales Avanzados - Instituto de Investigaciones Metalúrgicas, Universidad Michoacana de San Nicolás de Hidalgo - Centro de Ciencias de la Materia Condensada, UNAM - Laboratoire de Catalyse et Chimie Organique-UMR 6503 CNRS, Université de Poitiers</p>	HHC-20 P-257
<p>Performance of Ni/AlHMS Catalysts for the Hydroconversion of n-Octane <i>Kegong Fang - Jie Ren - Feng Wang - Yuhan Sun</i> Presenting author: Yuhan Sun State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences</p>	HHC-28 P-258
<p>Activation of the N-H bond of (eta)⁶-complexes of aromatic cyclic amines with [Pt(PEt₃)₃] <i>Carolina López - Juventino J. Garcia - Miguel A. Muñoz - Oscar Bermudez</i> Presenting author: Carolina López Universidad Nacional Autónoma de México - Universidad Autónoma del Estado de Mexico - Instituto Mexicano del Petróleo</p>	HHC-36 P-259
New Catalysts for Hydrotreating	Coral Gallery
<p>Investigation of Factors Controlling Sediment Formation During Catalytic Hydrocracking of Kuwait Vacuum Residues <i>Meena A. Marafi - Antony M. Stanislaus - Abdulwahab Al-Barood</i> Presenting author: Meena A. Marafi Kuwait Institute for Scientific Research</p>	HHC-15 P-260
<p>Hydroisomerization and Hydrocracking in liquid phase of complex mixtures on zeolites <i>José Antonio Muñoz Arroyo - Guy B. Marin</i> Presenting author: José Antonio Muñoz Arroyo Instituto Mexicano del Petróleo - Laboratorium voor Petrochemische Techniek</p>	HHC-18 P-261
<p>WS₂ Catalysts obtained by Decomposition of Tetraalkylammonium Thiotungstates <i>Jaime Espino Valencia - Lorena Alvarez Contreras - Elizabeth González Gabaldón - Carlos E Ornelas Gutiérrez - José L Rico Cerda - Gilles D Berhault - Sergio Fuentes Moyado - Gabriel Alonso Nuñez</i> Presenting author: Jaime Espino Valencia Centro de Investigación en Materiales Avanzados, S.C. - Facultad de Ingeniería Química e Instituto de Investigaciones Metalúrgicas-Universidad Michoacana de San Nicolás de Hidalgo - Université de Poitiers - Centro de Ciencias de la Materia Condensada-UNAM</p>	HHC-29 P-262
<p>Carbon-Covered Alumina: Synthesis from Methane Pyrolysis and Use as Support for Hydrotreating Catalysts <i>Roberto B. Sousa - Victor Teixeira da Silva</i> Presenting author: Victor Teixeira da Silva Instituto de Pesquisa e Desenvolvimento - Instituto Militar de Engenharia</p>	HHC-30 P-263
<p>Physical-chemical Characterization and Catalytic Activity of Molybdenum Carbides Prepared by Varied Temperature Programmed Reductions. <i>Juan Cruz-Reyes - Irasema Espinoza-Monjarrín - Mario Del Valle-Granados - Miguel Avalos-Borja - Erick Flores-Aquino - Sergio Fuentes-Moyado</i> Presenting author: Juan Cruz-Reyes Facultad de Ciencias Químicas e Ingeniería, UABC - Centro de Ciencias de la Materia Condensada, UNAM</p>	HHC-46 P-264
Nature of Active Sites in Hydrotreating	Coral Gallery
<p>Pt-Mo Bimetallic Catalysts Supported on γ-Al₂O₃. Effect of Metal Composition on the Formation of Strong Active sites <i>María Helena Pinzón - Aristóbulo Centeno - Sonia Azucena Giraldo</i> Presenting author: María Helena Pinzón Universidad Industrial de Santander</p>	HHC-33 P-265
<p>Pyridine Denitrogenation on Mo(110) Single Crystal Model Catalyst Surfaces <i>Wa'el A Abdallah - Murray R. Gray - Alan E Nelson</i> Presenting author: Wa'el A Abdallah University of Alberta</p>	HHC-47 P-266



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Nature of Active Sites in Hydrotreating	Coral Gallery
<i>Title</i>	<i>Page</i>
<p>Comparative study between commercial catalyst (Ni-Mo/Al₂O₃) and catalysts "CoMo, NiMo" on HDS of DBT <i>Carlos E. Ornelas - Sergio Fuentes Moyado - Rusell R Chianelli - Gabriel Alonso</i> Presenting author: Carlos E. Ornelas Centro de Investigación en Materiales Avanzados, S.C. - Centro de Ciencias de la Materia Condensada-Universidad Nacional Autónoma de México - University of Texas at El Paso</p>	HHC-55 P-267
<p>Characterization by TEM and Adsorption of pyridine of Pt-S catalysts supported on a Zr-pillared clay <i>José Antonio Colín L - Sara Núñez C. - José Antonio De los Reyes Heredia - Armando Vázquez</i> Presenting author: José Antonio De los Reyes Heredia Universidad Autónoma Metropolitana - Universidad Nacional Autónoma de México</p>	HHC-57 P-268
<p>Preparation, Characterization and Activity of B and P Containing NiMo Catalysts Supported on Al₂O₃: Impact of Surface Morphology on HDN Activity <i>Deena Ferdous - Ajay Kumar Dalai - John Adjaye</i> Presenting author: Ajay Kumar Dalai Department of Chemical Engineering, University of Saskatchewan, SK, Canada S7N 5C5 - Syncrude Canada Ltd., Edmonton Research Centre, Edmonton, AB Canada</p>	HHC-58 P-269
Selective Oxidation	Coral Gallery
<p>Platinum Group Metal Catalysed Selective Oxidation of Alcohols: Effect of Promoters <i>Ken G Griffin - Ross Anderson - Peter Johnston</i> Presenting author: Ken G Griffin Johnson Matthey</p>	IND-20 P-270
<p>TAP Reactor Studies of Hydrocarbon Oxidation over VPO Catalysts <i>Rebecca Ruth Fushimi - John T Gleaves - Sergiy O Shekhtman - Gregory S Yablonsky</i> Presenting author: Rebecca Ruth Fushimi Heterogeneous Kinetics and Particle Chemistry Laboratory, Department of Chemical Engineering, Washington University, 1 Brookings Drv., Campus Box 1198, St. Louis, Missouri 63130</p>	PRE-107 P-271
<p>Novel Hydrotalcite-type Clays for Oxidation Reactions <i>Alak Bhattacharyya</i> Presenting author: Alak Bhattacharyya BP Chemicals</p>	IND-19 P-272
<p>Selective Catalytic Oxidation of H₂S from Synthesis Gas in a Single Step <i>Apostolos A. Nikolopoulos - Santosh K. Gangwal</i> Presenting author: Apostolos A. Nikolopoulos RTI International</p>	IND-22 P-273
<p>Selective Catalysts for Hydrogen Sulfide Oxidation in Natural Gas - Concept to Commercialization. <i>Girish Srinivas - Steven C Gebhard</i> Presenting author: Girish Srinivas TDA Research, Inc.</p>	IND-32 P-274
<p>Effect of Palladium Metal Particle Size and Particle Oxidation in the Oxidation of Methane <i>Orlando Melendez - Gar B Hoflund</i> Presenting author: Orlando Melendez NASA, YA-F2-C, Kennedy Space Center, FL 32899 - Department of Chemical Engineering, University of Florida, Gainesville, FL 32611</p>	IND-36 P-275
<p>Experimental evidence for the significance of the well-dispersed V⁵⁺ species in VPO catalyst for the partial oxidation of n-butane to maleic anhydride <i>Weijie Ji - Xiaoshu Wang - Qijie Yan - Yi Chen</i> Presenting author: Weijie Ji Nanjing University</p>	PRE-081 P-276
<p>Toluene and ethyl-benzene oxidation over V-Sb catalysts <i>Susana A. Larrondo - Gonzalo Alvaro - Roberto D. Tejeda - Beatriz L. Irigoyen - Norma E. Amadeo</i> Presenting author: Norma E. Amadeo Depto. de Ing. Química. Facultad de Ingeniería. Universidad de Buenos Aires</p>	MOX-35 P-277



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Selective Oxidation	Coral Gallery
<i>Title</i>	<i>Page</i>
Fluid-Bed Ethylene Oxide Catalyst Development and Evaluation <i>Michael A Richard - Michael F. Lemanski</i> Presenting author: Michael A Richard Shell Chemical, LP	IND-40 P-278
Properties of Metals and Oxides	Coral Gallery
Pulse study of CO₂ reforming of methane over LaNiO₃ as started material <i>Catherine Batiot-Dupeyrat - Gustavo Valderrama - Alexander Meneses - Joël Barrault - Jean-Michel Tatibouët</i> Presenting author: Catherine Batiot-Dupeyrat Université de Poitiers-CNRS	MOX-29 P-279
Zeolite-Supported Ruthenium Catalysts For Carbon Monoxide Hydrogenation Reaction <i>Jale F. Akyurtlu - Robert J. Davis - Ates Akyurtlu</i> Presenting author: Jale F. Akyurtlu Hampton University - University of Virginia	MOX-32 P-280
The Dispersion State and Catalytic Property of Vanadia Species on the Surface of V₂O₅/TiO₂ Catalysts <i>Bolian Xu - Yining Fan - Yi Chen</i> Presenting author: Yining Fan Nanjing University	MOX-34 P-281
Optimisation of Cu-based catalysts for gas phase hydrogenation of CO_x streams to dimethylether via methanol synthesis <i>Francesco Frusteri - Lorenzo Spadaro - Orazio Di Blasi - Francesco Arena</i> Presenting author: Francesco Frusteri CNR-ITAE	MOX-56 P-282
Fundamental Studies in Metals and Oxides	Coral Gallery
Effect of Ce, Cr and Zr Doping on Catalytic Properties of SiO₂-supported NiMoO₄ <i>Rodica D. Zavoianu - Emilian G. Angelescu - Ana Paula V. Soares Dias - Cristina R. Dias - Manuel F. Portela</i> Presenting author: Rodica D. Zavoianu IUniv. Bucharest, Fac. Chemistry, Dept. Chem. Techn. & Cat. - 2GRECAT, Chem. Eng. Dept., Instituto Superior Técnico,	MOX-25 P-283
Nanostructured Metal Oxides as Heterogeneous Environmental Catalysts <i>Abbas A Khalil</i> Presenting author: Abbas A Khalil United Arab Emirates University	MOX-37 P-284
Influence of atmosphere on phase transformation of zirconia studied by UV Raman spectroscopy <i>Meijun Li - Can Li</i> Presenting author: Meijun Li State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, CAS	MOX-49 P-285
The Effect of Preparation Methods of Pt/Ce-ZrO₂/Al₂O₃ Catalysts on the Partial Oxidation of Methane <i>Carla Eponina Hori - Fabio Bellot Noronha - Priscila Pereira Silva - Fabiano de Almeida Silva - Lisiane Veiga Mattos - Adriane Gomes Lobo - Helena Prudêncio de Souza</i> Presenting author: Fabio Bellot Noronha Department of Chemical Engineering - Federal University of Uberlandia - Instituto Nacional de Tecnologia	MOX-52 P-286
The Effect of the Precipitant on the Catalytic Properties of Lanthanum-doped Hematite in the Ethylbenzene Dehydrogenation <i>Manuela de S. Santos - Alcinéia C. Oliveira - Sérgio G. Marchetti - Maria do Carmo Rangel</i> Presenting author: Maria do Carmo Rangel Universidade Federal da Bahia . Insituto de Química - CINDECA Facultad de Ciências Exactas. Universidad Nacional de La Plata	MOX-53 P-287
Studies on Alkali Earth Metal Ions Exchange and Absorbed derivatives of Zeolite-13X <i>Diwa Mishra</i> Presenting author: Diwa Mishra Govt Geetanjali Girls College	MOX-61 P-288



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Kinetic Modeling	Coral Gallery
Title	Page
Oxidative Dehydrogenation of n-Pentane Over Supported or Promoted VMgO Catalysts <i>Norka Armas - José Papa - José Manuel López Nieto - Benjamin Solsona - Adriana Acevedo</i> Presenting author: José Papa Escuela de Ingeniería Química, Universidad Central de Venezuela - Instituto de Tecnología Química, Universidad Politécnica de Valencia	MOX-38 P-289
Pt/CeO₂ catalysts in crotonaldehyde hydrogenation: correlations between catalytic properties, size and structure particles, metal-support interactions. <i>Mohamed Abid - Raymonde A. Touroude</i> Presenting author: Raymonde A. Touroude Université Louis Pasteur- Strasbourg	MOX-58 P-290
Synthesis and Structural Characterization of Novel Solid Acids and Bases	Coral Gallery
Sulfated Zirconia: Characterization and Catalytic Activity Study for n-Butane Isomerisation <i>Himangshu Kumar Mishra - Dharani Dhar Das - Ajay Kumar Dalai - Kulamani Parida</i> Presenting author: Himangshu Kumar Mishra Catalysis and Chemical Reaction Engineering Laboratory, Department of Chemical Engineering, University of Saskatchewan, 105 Maintenance Road, Saskatoon S7N 5C5 - Environment Management and Inorganic Chemicals Division, Regional Research Laboratory (CSIR), Bhubaneswar 751 013, Orissa	ABC-28 P-291
Synthesis and characterization of vanadium and molibdenum oxycarbides in the HDS of thiophene. <i>José Alberto Lumbreras-Pacheco - Myrna Lorena Guerrero-Martínez - Ricardo García-Alamilla - José Guillermo Sandoval-Robles - Alfredo Castillo-Mares - Patricia Perez-Romo - Jose Manuel Dominguez Esquivel</i> Presenting author: José Alberto Lumbreras-Pacheco Instituto Tecnológico de Ciudad Madero - Instituto Mexicano del Petróleo	ABC-29 P-292
Acidic Characteristics of Water-Tolerant Oxide Catalysts Determined in Solvents of Different Polarity <i>Paolo Carniti - Antonella Gervasini - Aline Auroux</i> Presenting author: Paolo Carniti Dipartimento di Chimica Fisica ed Elettrochimica, Università di Milano, Italy - Institut de Recherches sur la Catalyse, CNRS, Villeurbanne, France	ABC-31 P-293
Hydration state, thermal stability and acid properties of Dawson and Keggin heteropoly acid catalysts <i>Ming Jiang - Manzoor Sultan - Flora T.T. Ng</i> Presenting author: Ming Jiang Department of Chemical Engineering, University of Waterloo	ABC-33 P-294
Importance of Shape Selectivity, Structural and Acidic Properties in Isomerisation of n-Butenes over Zeolites and Mesoporous Molecular Sieves <i>Narendra Kumar - Ville Nieminen - Tapio Salmi - Dmitry Murzin</i> Presenting author: Narendra Kumar Laboratory of Industrial Chemistry, Process Chemistry Group, Faculty of Chemical Engineering, Åbo Akademi University, FIN-20500 Åbo, Finland	ABC-34 P-295
One Pot synthesis of aldehydes and ketones with Pd-Cu supported catalysts obtained from layered double hydroxides <i>María de Jesús Martínez Ortiz - Didier Tichit - Bernard Coq - Philippe Gonzalez</i> Presenting author: María de Jesús Martínez Ortiz Laboratoire de Matériaux Catalytiques et Catalyse en Chimie Organique, UMR 5618, ENSCM-CNRS	ABC-36 P-296
Correlation Between Acidity, Basicity and Catalytic Performance of Binary Sol-Gel MgO-Al₂O₃ Catalysts <i>Li-Fang Chen - Jin-An Wang - Tessy López - Ricardo Gómez</i> Presenting author: Jin-An Wang Laboratory of Catalysis and Materials, Superior School of Chemical Engineering, National Polytechnic Institute, Zacatenco, 07738, Mexico City - Departamento de Química, Universidad Autónoma Metropolitana-I, A. P. 55-534, 09340 Mexico D.F.	ABC-38 P-297



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Synthesis and Structural Characterization of Novel Solid Acids and Bases	Coral Gallery
<i>Title</i>	<i>Page</i>
Synthesis, characterization and hydrothermal stability of Ti-MCM-41 <i>Persi Schacht - Luis Noreña - Isaias Hernández - Luz Arcelia García Serrano</i> Presenting author: Luz Arcelia García Serrano Universidad Autónoma Metropolitana - Instituto Mexicano Del Petroleo	COS-04 P-298
Reaction Chemistry and Functional characterization of solid acids and bases	Coral Gallery
Isobutane/2-butene Alkylation over non Acidic Solid Catalyst <i>Nilton Rosenbach Jr - Claudio José de Araujo Mota</i> Presenting author: Claudio José de Araujo Mota Federal University of Rio de Janeiro	ABC-15 P-299
Cesium and potassium acidic salts of tungstophosphoric acid as catalysts in the liquid-phase esterification of acetic acid with isoamyl alcohol <i>Luis R. Pizzio - Mirta N. Blanco</i> Presenting author: Luis R. Pizzio Centro de Investigación y Desarrollo en Ciencias Aplicadas (CINDECA) UNLP-CONICET	ABC-23 P-300
Sorbitol Conversion Over Solid Acid Catalysts <i>Xinjie Zhang - Yong Wang - Jianli Hu - Xiaohong Li - John Holladay - James White - Todd Werpy</i> Presenting author: Jianli Hu U.S. Pacific Northwest National Laboratory	ABC-25 P-301
Tolerance of Nitrogen compound on the catalytic properties of BEA and MFI- type zeolites: Dealumination effect <i>Djamal Djaouadi - Yilda Romero - Edito Reyes - Francisco Lopez - Jorge Tejada - Carolina Auza - Hebert M Molero</i> Presenting author: Djamal Djaouadi PDVSA-INTEVEP	ABC-37 P-302
Complete oxidation of alkanes C1-C4 on solid superacids modified with platinum <i>L. M. Kustov - O. V. Masloboischchikova - K. V. Skupov</i> Presenting author: L. M. Kustov Zelinsky Institute of Organic Chemistry	ABC-39 P-303
Fundamental Studies in Catalysis	Coral Gallery
Catalyst Characterization by "State-by-State Transient Screening". Thin-Zone Multi-Pulse TAP Experiments <i>Sergiy O Shekhtman - Gregory S Yablonsky - John T Gleaves - Rebecca Ruth Fushimi</i> Presenting author: Gregory S Yablonsky Dpt. of Chem. Eng., Washington University, Box 1198, 1 Brookings Dr., St. Louis, MO 63130	PRE-091 P-304
Investigation of Catalysts with Hot Active Sites for Low-Temperature CO Oxidation <i>Karl G P Arnby - Anders Törnrcrona - Bengt Andersson - Magnus Skoglundh</i> Presenting author: Karl G P Arnby Competence Centre for Catalysis - Eka Chemicals	PRE-097 P-305
Characterization of the Cu⁺ sites in high-silica zeolites interacting with CO molecule: combined computational and experimental study. <i>Marketa Davidova - Dana Nachtigallova - Zdenek Sobalik - Roman Bulanek - Petr Nachtigall</i> Presenting author: Petr Nachtigall J. Heyrovský Institute of Physical Chemistry - University of Pardubice	GEN-23 P-306
Sintering of Supported Metal Catalysts <i>Abhaya K. Datye - Qing Xu - Ron Goeke - Karl C.C. Kharas</i> Presenting author: Abhaya K. Datye University of New Mexico, Department of Chemical and Nuclear Engineering and - Delphi Catalysts, Tulsa, OK 74158-0970 - Sandia National Labs	IND-33 P-307



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Fundamental Studies in Catalysis	Coral Gallery
Title	Page
Synthesis of Thermally Stable Zirconia with Large Surface Area and Its Catalytic Application <i>Young-Woong Suh - Jung-Woo Lee - Hyun-Ku Rhee</i> Presenting author: Hyun-Ku Rhee School of Chemical Engineering and Institute of Chemical Processes, Seoul National University	MOX-06 P-308
Oxidation of Pd(111) <i>Jinyi Han - Dmitry Y. Zemlyanov - Guanghui Zhu - Fabio H. Ribeiro</i> Presenting author: Jinyi Han Worcester Polytechnic Institute	MOX-50 P-309
CO₂ Reforming of Propane over Supported Pt catalyst <i>Frigyes Solymosi - Péter Tolmacsov - Krisztina Kedves</i> Presenting author: Frigyes Solymosi Institute of Solid State and Radiochemistry, University of Szeged	MOX-55 P-310
Bridging the Gap Between UHV and Industrial Catalysis: A Study of the Reaction of 1-Epoxy-3-butene on Ag <i>Jerome Thomas Jankowiak - Mark A. Barteau</i> Presenting author: Jerome Thomas Jankowiak University of Delaware	GEN-06 P-311
Catalysis of C1 – C2 Reactions	Coral Gallery
Correlation of Electrical Conductivity and Performance of SrxCe1-xSnO3 Perovskite Oxides for Oxidative Coupling of Methane in Transient State. <i>Ali Shekari - Abbas Ali Khodadadi</i> Presenting author: Ali Shekari Catalyst and Reaction Engineering Research Lab., Dept. of Chemical Engineering, Faculty of Engineering, University of Tehran.	COS-29 P-312
Characterization of Skeleton Iron Catalyst for Slurry Phase FT Synthesis <i>Yijun Lu - Peizheng Zhou - Dongguang Wei</i> Presenting author: Yijun Lu Hydrocarbon Technologies, Inc. - New Jersey Institute of Technology	MOX-09 P-313
Reactivity of Carbon Species Formed on Pt/ZrO₂ Catalyst in Methane Conversion <i>Ruth L Martins - Mariana M V M Souza - Maria A Baldanza - Martin Schmal</i> Presenting author: Ruth L Martins Nucleo de Catalise, PEQ/COPPE/UFRJ - Escola de Quimica, UFRJ	MOX-40 P-314
Reforming of methane with CO₂ and steam using supported-nickel catalysts <i>Alexander Diniz - Sandra Dantas - Rafael Dias - Marcos Nogueira Napolitano - Ricardo Reis Soares</i> Presenting author: Ricardo Reis Soares Faculty of Chemical Engineering - Federal University of Uberlandia	MOX-41 P-315
An Investigation of Olefin Production of Iron-Based Fischer-Tropsch Catalysts Prepared by Different Techniques <i>Robert J. O'Brien - Richard Tuell - X. D. Hu</i> Presenting author: Robert J. O'Brien Süd-Chemie Inc.	MOX-43 P-316
Carbon formation and stability of Ni/ZrO₂ catalysts during dry reforming of methane with CO₂. The effect of CeO₂ addition <i>D. Diez - E. Romero-Pascual - J. A. Montoya - B. Moraweck - A. Monzon</i> Presenting author: A. Monzon University of Zaragoza, Dept. Chem. & Env. Eng. - Instituto Mexicano del Petróleo - IRC, CNRS	MOX-62 P-317
Wax composition transients during Fischer-Tropsch Synthesis <i>Luca Lietti - Dario Pinna - Enrico Tronconi - Roberto Zennaro - Pio Forzatti</i> Presenting author: Luca Lietti Politecnico di Milano - Enitecnologie	IND-38 P-318



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Catalysis of C1 – C2 Reactions	Coral Gallery
Title	Page
<p>High-Temperature Catalytic Partial Oxidation in a Reverse-Flow Reactor <i>Dirk Neumann - Goetz Vesper</i> Presenting author: Dirk Neumann University of Pittsburgh</p>	IND-41 P-319
<p>Catalytic Partial Oxidation of Methane to Formaldehyde: Catalyst Development, Reaction Model and HCHO Productivity <i>Adolfo Parmaliana - Francesco Arena - F. Frusteri - A. Mezzapica</i> Presenting author: Adolfo Parmaliana Universita di Messina - Istituto CNR-TAE Nicola Giordano</p>	IND-42 P-320
<p>Preparation and Pretreatment of Bimetallic Carbide Catalysts for Dry Reforming of Methane: Relation to Activity, Selectivity and Stability <i>Huifeng Shao - Edwin L. Kugler - Mahesh V. Iyer - Dady B. Dadyburjor</i> Presenting author: Dady B. Dadyburjor West Virginia University - Ohio State University</p>	PRE-115 P-321
<p>Effects of the Support on Catalytic Activity of Co-Ni Catalysts for CH₄ Reforming with CO₂: Characterization and Catalytic Properties based on Hydrogen Yield <i>Orlando B González - Juan B Lujano - Hebert M Molero - Manuel G Pacheco - Eglé Pietri - Mireya R Goldwasser</i> Presenting author: Hebert M Molero IPDVSA-INTEVEP S.A., Refining and Petrochemicals Division. 1070-A Caracas, Venezuela. - 2CCPP, Escuela de Química, Facultad de Ciencias, Universidad Central de Venezuela, Apartado 47102, Caracas, Venezuela.</p>	IND-41 P-322
Computational Catalysis	Coral Gallery
<p>A Theoretical Study of Metal Influence on Pyruvate Asymmetric Hydrogenation <i>Donato A. G. Aranda - Paulo R. N. Souza - José W. M. Carneiro - Fabio B. Passos - Cecilia S. B. Oliveira - Octávio A. C. Antunes</i> Presenting Author: Donato A. G. Aranda Escola De Química/Universidade Federal Do Rio De Janeiro - Instituto De Química/Universidade Federal Do Rio De Janeiro - Instituto De Química/Universidade Federal Fluminense</p>	COM-06 P-323
<p>A theoretical-experimental study on acidity of molybdovanadophosphate heteropolyanions with Keggin structure <i>Paula I Villabrille - Jorge E Sambeth - Patricia G Vázquez</i> Presenting author: Patricia G Vázquez "Centro de Investigación y Desarrollo en Ciencias Aplicadas, Dr. Jorge J. Ronco" (CINDECA), Universidad Nacional de La Plata -8211; CONICET, 47 N° 257 (B1900AJK) La Plata</p>	COM-08 P-324
<p>Theoretical Study of NO/NO₂ Adsorption on Cobalt Exchanged Zeolite A <i>Juan D. Henao - Consuelo Montes de Correa</i> Presenting author: Consuelo Montes de Correa Departamento de Ingeniería Química, Universidad de Antioquia.</p>	COM-14 P-325
<p>Physical and Chemical Properties of Supported Platinum Clusters <i>Henrik Grönbeck - Peter Broqvist</i> Presenting author: Henrik Grönbeck Competence Centre for Catalysis and Department of Applied Physics, Chalmers University of Technology</p>	COM-17 P-326
<p>Selectivity in the methylation of naphthalene with methanol catalyzed by micro and mesoporous acid materials <i>Julia Aguilar-Pliego - Claudio Marcelo Zicovich-Wilson - Orlando Erick Méndez-Núñez - Gabriela Cortés-García - Virginia González-Velez</i> Presenting author: Julia Aguilar-Pliego Universidad Autónoma Metropolitana-Azcapotzalco - Universidad Autónoma del Estado de Morelos</p>	COM-19 P-327
<p>Vanadium Catalysts and Polymerization of Ethylene Modeled at Various Levels of Theory <i>Zygmunt Flisak - Akinobu Shiga - Krzysztof Szczegot</i> Presenting author: Zygmunt Flisak University of Opole - Tsukuba Research Laboratory, Sumitomo Chemical</p>	COM-01 P-328



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Computational Catalysis	Coral Gallery
Title	Page
<p>Dead Core in Porous Catalysts: Simulation of a Case Problem Using Mathematica <i>Miguel A Granato - Luiz C de Queiroz</i> Presenting author: Miguel A Granato College of Chemical Engineering of Lorena</p>	COM-02 P-329
Catalysis of Organic Reactions	Coral Gallery
<p>Carbonylation reactions in dimethylcarbonate <i>Giuseppe Vasapollo - Giuseppe Mele - Annamaria Maffei</i> Presenting author: Annamaria Maffei University of Lecce, Department of Engineering</p>	COS-06 P-330
<p>Novel Efficient Catalysts for the Oxidation of Hydrocarbons in Water-Organic Systems <i>Elena V. Kapustina - Alexey E. Kapustin</i> Presenting author: Elena V. Kapustina Azov State Technical University, Mariupol, Ukraine</p>	COS-09 P-331
<p>Epoxidation of Cyclohexene on Mo(acac)₂ supported on a polymeric resin. Effect of the porosity of the support and Mo(acac)₂ content. <i>Gloria del Carmen Borda - Bernabe Luis Rivas - Patricio Alberto Reyes</i> Presenting author: Gloria del Carmen Borda Universidad de Concepción</p>	COS-13 P-332
<p>Partial oxidation of butadiene to furan and crotonaldehyde on mesoporous vanadosilicate MCM molecular sieves <i>Bernd F. Kubias - Reinhard Eckelt - Britta Jacobi - Dirk Mueller - Angelika Brueckner - Ursula Bentrup</i> Presenting author: Bernd F. Kubias Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin - Institut fuer Angewandte Chemie Berlin-Adlershof e.V.</p>	COS-16 P-333
<p>a-pinene oxidation with MTO immobilized on vinylpyridine polymers <i>Lina María González - Aída Luz Villa - Georges Gelbard - Consuelo Montes</i> Presenting author: Aída Luz Villa Universidad de Antioquia - Université Claude-Bernard Lyon 1</p>	COS-19 P-334
<p>Aryl side-chain oxidation by novel Pd-phenanthroline-acetate catalysts <i>Sheldon C Sherman - Alexei V Iretskii - Mark G White</i> Presenting author: Mark G White School of Chemical Engineering, Georgia Institute of Technology - Department of Chemistry, Lake Superior State University</p>	COS-20 P-335
<p>Immobilization of Bisoxazolines on Silicious Mesocellular Foams (MCF) for Asymmetric Cyclopropanation <i>Su Seong Lee - Thomas M Lancaster</i> Presenting author: Su Seong Lee Massachusetts Institute of Technology</p>	COS-33 P-336
<p>The Synthesis and Characterization of Supported Manganese Oxides that Catalyze Selective Oxidation of Alcohols. <i>Jason P Durand - Young-Chan Son - Steven L Suib</i> Presenting author: Jason P Durand University of Connecticut, Department of Chemistry U-3060 - Institute of Material Sciences, University of Connecticut</p>	COS-35 P-337
<p>Synthesis of aromatic compounds on the ZSM-type zeolites <i>Gagik Hovhannes Toirosyan - Hakob Hovhannes Sargsyan - Dezdemona Nikolaj Hovhannisyan - Gayane Manvel Avagyan - Kristina Souren Sahakyan</i> Presenting author: Gagik Hovhannes Toirosyan State Engineering University of Armenia - Yerevan State University of Architecture and Construction</p>	COS-41 P-338
Deactivation and Reaction Engineering	Coral Gallery
<p>Diffusion of 3-Methylpentane in Silicalite: Concentration Dependence <i>Alina O Koriabkina - Danny Schuring - Arthur M de Jong - Rutger A. van Santen</i> Presenting author: Alina O Koriabkina Schuit Institute of Catalysis, Eindhoven University of Technology</p>	DRE-01 P-339



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Deactivation and Reaction Engineering	Coral Gallery
Title	Page
Effect of support reducibility on Partial Oxidation of Methane <i>Lisiane Veiga Mattos - Helena Prudêncio de Souza - Elaine Rodino de Oliveira - Fabio Barboza Passos - Fábio Bellot Noronha</i> Presenting author: Lisiane Veiga Mattos Instituto Nacional de Tecnologia - Universidade Federal Fluminense	DRE-06 P-340
Coke Formation in Benzene to Phenol Oxidation on ZSM-5 Catalysts <i>Mikhail I Khramov</i> Presenting author: Mikhail I Khramov Solutia Inc.	DRE-15 P-341
The Surface Science of Sulfur Dioxide Adsorption on Ceria-Stabilized-Zirconia Model Catalysts <i>Esteban J Romano - Kirk H Schulz</i> Presenting author: Esteban J Romano Mississippi State University	DRE-28 P-342
Estimation of Catalyst Deactivation by Neural Network: Application to Methanol Conversion <i>Shigeharu Kito - Atsushi Satsuma - Toshiyasu Ishikura - Miki Niwa - Yuichi Murakami - Tadashi Hattori</i> Presenting author: Shigeharu Kito Aichi Institute of Technology - Nagoya University - Tottori University	DRE-17 P-343
Kinetic Modeling of Gas-oil Catalytic Cracking Reactions <i>Miriam N Moreno - Roberto Quintana - Felipe H López-Isunza - Francisco J Hernández-Beltrán</i> Presenting author: Miriam N Moreno Universidad Autónoma Metropolitana Iztapalapa - Instituto Mexicano del Petróleo	DRE-12 P-344
Mechanistic aspects of catalyst deactivation in liquid -phase hydrogenation <i>Dmitry Yu. Murzin - Tapio Salmi - Päivi Mäki-Arvela - J.-P. Mikkola - Jyrki Kuusisto - Esa Toukoniitty - Jan Hajek</i> Presenting author: Tapio Salmi Abo Akademi University	DRE-24 P-345
Deactivation methodology for catalyst for hydrodemetallization reaction using feedstock vaccum residue and FCC gasoil feed <i>Javier Herbert - V. F. Santes Hernandez - R. Zarate Ramos - M. T. Cortez de la Paz - L. Diaz Garcia - J. L. Sanchez Pacheco - D. Pacheco Venancio - G. Hernandez Tapia</i> Presenting author: Javier Herbert Instituto Mexicano del Petróleo	DRE-29 P-346
Fuel Cells	Coral Gallery
Selective Oxidation of CO on Metal-foam Supported Pt-Fe Catalysts <i>Paul Chin - Xiaolei Sun - George W. Roberts - James J. Spivey</i> Presenting author: Paul Chin North Carolina State University	FCE-26 P-347
Pt-Ru-Carbon Aerogel and Cryogel Electrocatalysts for Direct Methanol Fuel Cells (DMFCs) <i>Dong Jin Suh - Kang Hee Lee - Il-Gon Kim - Tae-Jin Park T.-J. Park</i> Presenting author: Dong Jin Suh Korea Institute of Science and Technology	FCE-24 P-348
Carbide and nitride catalysts for water gas shift <i>Jeremy J. Patt - Shyamal K. Bej - Levi T. Thompson</i> Presenting author: Levi T. Thompson University of Michigan	FCE-27 P-349
Highly Active and Coke Resistant Catalyst for Steam Reforming of a Hydrocarbon <i>Robert T Rozmiarek - Yong Wang - Ya-Huei Chin - Bradley R Johnson</i> Presenting author: Robert T Rozmiarek Pacific Northwest National Laboratory	FCE-28 P-350
Mixed Oxide Supported Noble Metal Based Methanol Reforming Catalysts <i>Easwar S Ranganathan - Shyamal K Bej - Levi T Thompson</i> Presenting author: Easwar S Ranganathan University Of Michigan, Ann Arbor	FCE-30 P-351



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Fuel Cells	Coral Gallery
Title	Page
Supported Nickel Catalysts for Autothermal Reforming of Hydrocarbons <i>Andy Tadd - Vinay Saraf - Johannes Schwank - Thitiporn Jundee - Thirasak Rirksomboon</i> Presenting author: Andy Tadd University of Michigan - Chulalongkorn University	FCE-31 P-352
Water-Gas Shift Kinetics over Iron Oxide Catalysts at Membrane Reactor Conditions <i>Mang Zhang - Carl R. F. Lund</i> Presenting author: Carl R. F. Lund University at Buffalo – SUNY	FCE-32 P-353
Activity and Characterization Study of Pt/Al₂O₃ Prepared with Water-Pretreatment for Preferential CO Oxidation in H₂ for PEM fuel Cells <i>In Hyuk Son - Alan M. Lane</i> Presenting author: In Hyuk Son The University of Alabama	FCE-33 P-354
Catalytic Performance of a CuO/ZnO/Al₂O₃ Methanol Steam Reforming Catalyst Coated on Micro-Channel Surfaces <i>Ayman Karim - Jaime Bravo - Abhaya K. Datye</i> Presenting author: Ayman Karim Dept. of Chemical & Nuclear Engineering and Center for Ceramic and Composite Materials	FCE-35 P-355
Methanol Reforming to Hydrogen Using Zr Containing Cu/Zn-based Catalysts <i>Paul H. Matter - Nuray Oktar - Xueqin Wang - Umit S. Ozkan</i> Presenting author: Paul H. Matter The Ohio State University	FCE-37 P-356
Study of Platinum/Ruthenium Catalysts for Methanol Oxidation in Direct Methanol Fuel Cells <i>Josephine M. Hill - Aislinn H.C. Sirk - Ronald A. Kydd - Viola I. Birss</i> Presenting author: Josephine M. Hill University of Calgary	FCE-40 P-357
The Use of Activated Carbon Supported Catalysts for Selective Low Temperature Carbon Monoxide Oxidation in H₂-Rich Gas Streams <i>Seyma Ozkara - Ahmet E Aksoylu</i> Presenting author: Ahmet E Aksoylu Department of Chemical Engineering, Bogazici University, 80815 Bebek, Istanbul	FCE-41 P-358
Hydrogen Production over Ni-Al hydrotalcite catalyts by methanol steam reforming <i>Caixia Qi - Jerry Hinchey - John C. Amphlett - Brant A. Peppley</i> Presenting author: Brant A. Peppley Royal Military College of Canada, Kingston, Ontario	FCE-43 P-359
Fine Chemistry	Coral Gallery
Chemoselective oxidation of 2-thiomethyl-4,6-dimethyl-pyrimidine, 2-thiobenzyl -4,6-dimethyl-pyrimidine and methyl-dodecylthioether over Ti-SBA-15 catalysts <i>Serge C. Kaliaguine</i> Presenting author: Serge C. Kaliaguine - University of Bucharest, B-dul Regina Elisabeta 4-12, Bucharest 70346, Romania, - Université Laval, Ste-Foy, Quebec, Canada, G1K7P4	NAN-01 P-360
Control of Heterogeneous Catalyst Selectivity via Nanoscale Materials Design and Synthesis <i>John D. Bass - Nicholas Parra-Vasquez - Sandra L. Anderson - Jessica L. Defreese - Alexander Katz</i> Presenting author: John D. Bass University of California at Berkeley	NAN-17 P-361
Organometallic complexes as a new type of heterogeneous catalysts in gas-phase <i>Sepp Spitzer - Mohammed S.M. Mujeebur Rahuman - Jan G. van Ommen - Leon Lefferts</i> Presenting author: Jan G. van Ommen University of Twente	PRE-101 P-362



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Fine Chemistry	Coral Gallery
Title	Page
In-Situ Raman investigation of an enantioselective catalyst: Cinchonidine interactions with polycrystalline platinum <i>Rene J. LeBlanc - Christopher T. Williams</i> Presenting author: Rene J. LeBlanc University of South Carolina	GEN-09 P-363
Hydrogenation And Isomerization Of a, b-Unsaturated Alcohols Over Pd/TiO₂ Catalysts <i>Maria Grazia Musolino - Paolo De Maio - Andrea Donato - Rosario Pietropaolo</i> Presenting author: Rosario Pietropaolo Department of Mechanics and Materials, Faculty of Engineering, University of Reggio Calabria	IND-02 P-364
Glucose oxidation over supported gold catalysts <i>Peter Claus - Sabine Schimpf - Yücel Oenal</i> Presenting author: Peter Claus Darmstadt University of Technology, Institute of Chemical Technology	IND-06 P-365
Influence of Hydrogen Supply on By-product formation during the Hydrogenation of DNT to TDA <i>Juergen G E Krauter - Michael Gross - Markus Goettlinger - Uwe Packruhn</i> Presenting author: Juergen G E Krauter Degussa AG (Catalysts & Initiators)	IND-28 P-366
Industrial Catalysis	Coral Gallery
New hybrid catalysts used in Selective Deep Catalytic Cracking of petroleum naphthas for the production of ethylene and propylene <i>Raymond Le Van Mao - Nabil Al-Yassir</i> Presenting Author: Raymond Le Van Mao Concordia University, Department of Chemistry & Biochemistry	IND-12 P-367
Catalysis for propulsion applications. A survey <i>Charles J. Kappenstein</i> LACCO, University of Poitiers	IND-23 P-368
Pt/H-ZSM-12 as a Catalyst for the Hydroisomerization of C₅ to C₇ n-Alkanes. Comparison with other Large Pore Zeolite Catalysts <i>Srikant Gopal - Panagiotis G Smirniotis</i> Presenting author: Panagiotis G Smirniotis University of Cincinnati	IND-24 P-369
Catalytic Removal of Dissolved Oxygen for Nuclear and Non-Nuclear Applications <i>Sellathurai (Sam) Suppiah - Debbie L Burns - Chris R Aelick</i> Presenting author: Sellathurai (Sam) Suppiah Atomic Energy of Canada Ltd.	IND-26 P-370
Hydroconversion of an n-heptane-Methylcyclohexane-Toluene model mixture over Metal/Al₂O₃ +HZSM5 catalysts. Main reaction pathways for octane enhancement. <i>Erik Ocaranza - Horacio Gonzalez - Jorge Ramirez</i> Presenting author: Erik Ocaranza UNICAT, Departamento de Ingenieria Química, Facultad de Química, U.N.A.M., Cd. Universitaria, 04510, México D.F., Tel.-Fax: 5622 53 66	IND-27 P-371
Oxygen Removal in Claus Converters Using Iron Catalysts <i>Sevan Bedrossian - Kevin J. Smith</i> Presenting author: Sevan Bedrossian Department of Chemical and Biological Engineering, University of British Columbia	IND-30 P-372
Remote Activation of Catalytic Sites via Hydrogen Spillover <i>John C. Weigle - Majed Hammoud - Hugo R. Zea - Frisia Colon - Jonathan Phillips</i> Presenting author: John C. Weigle Los Alamos National Laboratory - Michigan State University - University of New Mexico	IND-31 P-373



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Industrial Catalysis	Coral Gallery
Title	Page
<p>The Performance of Pt/Al₂O₃ Catalysts Modified by Tin and Rhenium in the n-Octane Reforming <i>Luciene S. Carvalho - Carlos L. Pieck - Maria do Carmo Rangel - José M. Parera - Nora S. Fígoli</i> Presenting author: Maria do Carmo Rangel Universidade Federal da Bahia. Instituto de Química - Instituto de Investigaciones en Catalisis y Petroquímica</p>	IND-34 P-374
<p>The Study on Physico-chemical and Catalysis Properties of Y Zeolites Modified with Phosphorus <i>Jianqiu Zhang - Huiping Tian</i> Presenting author: Jianqiu Zhang Research Institute of Petroleum Processing(RIPP), SINOPEC</p>	IND-35 P-375
<p>Selectivity Control via Ag Promoters and Co-adsorbed CO During Selective Hydrogenation of Acetylene Ethylene <i>H. Zea - K. Lester - Abhaya K. Datye - E. G. Rightor - R. J. Gulotty - J. J. Maj - J. Blackson - M. Holbrook - C. Michael Smith</i> Presenting author: H. Zea University of New Mexico, Center for Microengineered Materials and Department of Chemical & Nuclear Engineering - Midland - Plaquemine - Freeport</p>	IND-43 P-376
<p>The Continuous Hydrogenation of Dinitrotoluene to Toluenediamine with Fixed Bed Activated Ni Catalysts <i>Daniel J. Ostgard - Monika Berweiler - Stefan Röder - Peter Panster - Peter Panster</i> Presenting author: Daniel J. Ostgard Degussa AG, Catalysts and Initiators Division</p>	IND-45 P-377
Photocatalysis	Coral Gallery
<p>Photocatalytic degradation of benzene using metal-TiO₂: correlation between activity and optical properties <i>Byung-yong Lee - Sang-huk Park - Misook Kang - Suk-jin Choung</i> Presenting author: Byung-yong Lee School of Environmental and Applied Chemistry, Kyung Hee University - Industrial Liaison Research Institute, Kyung Hee University</p>	PHO-12 P-378
<p>Phenol Degradation by Photocatalytic Process on Titanium Oxide Catalyst <i>Nelson Saksono Nelson Saksono</i> Presenting author: Nelson Saksono Nelson Saksono Gas & Petrochemical Engineering . Departmet University of Indonesia</p>	PHO-01 P-379
<p>Photocatalytic Decomposition of Phenol in Water Using Labyrinth Flow Reactor. Comparison of Two Photocatalytic Materials: Tytanpol A11 and Degussa P25. <i>Joanna Grzechulska - Antoni Waldemar Morawski</i> Presenting author: Joanna Grzechulska Technical University of Szczecin, Institute of Chemical and Environmental Engineering, Pu-322;askiego 10, 70-322 Szczecin, Poland</p>	PHO-02 P-380
<p>Optimization of Layered Perovskite Materials as a Photocatalyst for Photocatalytic Water Splitting <i>Jae Sung Lee - Dong Won Hwang - Vagala Reddy - Jindo Kim - Wei Li - Se Hyuk Oh</i> Presenting author: Jae Sung Lee Department of Chemical Engineering, Pohang University of Science and Technology - Research & Development Center, Genera Motors</p>	PHO-06 P-381
<p>Effect Of Copper In Phenol Oxidation With Pillared Clays, In The Presence Of H₂O₂ And Uv <i>Ricardo Garcia-Alamilla - Raúl Enrique Contreras-Bermudez - Rita Marielena Avalos-Castillo - Claudia Esmeralda Ramos-Galvan - Alfredo Castillo-Mares - José Guillermo Sandoval-Robles</i> Presenting author: Claudia Esmeralda Ramos-Galvan Instituto Tecnológico de Ciudad Madero</p>	PHO-09 P-382



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Photocatalysis	Coral Gallery
<i>Title</i>	<i>Page</i>
The Photocatalytic Effects of TiO₂ Catalysts Platinized by Leached Solution from Wasted Catalysts for Decomposition of TCE <i>Chul Woo Lee - Suk Bong Hong - Chae Ho Shin - Won Mook Lee</i> Presenting author: Chul Woo Lee Hanbat National University - Chungbuk National University	PHO-13 P-383
Nanocatalysts	Coral Gallery
Structural and Catalytic Investigation of Rh Nanoparticles in Graphite <i>Agnes Mastalir - Ferenc Notheisz</i> Presenting author: Agnes Mastalir Department of Organic Chemistry, University of Szeged	PRE-007 P-384
Synthesis of Unidirectional Alumina Nanostructures by a Modified Surfactant-Templating Method <i>Jae Sung Lee - Hyun Chul Lee - Hae Jin Kim - Dae Hyun Choo - Kyung Hee Lee</i> Presenting author: Jae Sung Lee Department of Chemical Engineering, Pohang University of Science and Technology, Pohang, 790-784 - Korea Basic Science Institute, Daejeon, 350-333	PRE-078 P-385
Spectroscopic characterization of Catalysts	Coral Gallery
In Situ Spectroscopic Characterization for Identification of Active Species in a Novel Bifunctional Selective Catalytic Reduction Catalyst <i>Mario J. Castagnola - Michael K. Neylon - A. Jeremy Kropf - Christopher L. Marshall</i> Presenting author: Mario J. Castagnola Argonne National Laboratory	PRE-095 P-386
Image Processing Applied to HRTEM Images of Nickel Sulfides Catalysts <i>Samuel Tehuacanero Núñez - José Reyes Gasga - Xiang Cheng Sun</i> Presenting author: Samuel Tehuacanero Núñez Instituto de Física, UNAM. C.P. 20-364, 01000 México.D.F. - Center for Material for Information Technology, Tuscaloosa, Alabama.	PRE-120 P-387
High-resolution heteronuclear correlation NMR spectroscopy; applications to heterogeneous catalysis <i>J. Wiench - S. C. Menezes - Y. L. Lam - V. S. Y. Lin - J. P. Amoureux - M. Prusky</i> Presenting author: J. Wiench Iowa State University, Ames Laboratory - Petrobas/CENPES - Iowa State University, Department of Chemistry - Université de Lille	PRE-124 P-388
Microstructural characterization of Wox/ZrO₂ <i>E. Torres-García - J. Ascencio - R. Pérez - Gustavo A. Fuentes</i> Presenting author: Gustavo A. Fuentes Instituto Mexicano del Petróleo - Área de Ingeniería Química, Universidad Autónoma Metropolitana-Iztapalapa	PRE-126 P-389
Catalysts Preparation by sol-gel methods	Coral Gallery
Influence of Gold on electronic band structure and Anatase-Rutile Phase Transition of Sol-Gel Titania. <i>Abel M Debeila - Christer M Raphulu - Ema - Mokoena - Miguel A Borja - Vitalii A Petranovskii - Neil J Coville - Mike S Scurrell</i> Presenting author: Abel M Debeila Centro de Ciencias de la Materia Condensada, UNAM - Molecular Science Institute, School of Chemistry, Wits University	PRE-082 P-390
Preparation of a coprecipitated Au/Al₂O₃ catalyst: Effects of the preparation conditions on catalyst properties <i>Meltem Yildiz - Ayse Aytac - Nilgun A Akin</i> Presenting Author: Meltem Yildiz Kocaeli University	PRE-103 P-391



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Novel catalysts preparation techniques	Coral Gallery
Title	Page
<p>Quantitative Determination of the Number of Active Sites Through Alcohol Adsorption on Monolayer Supported Molybdenum and Vanadium Catalysts, Bulk Metal Molybdates and Vanadates and Phospho-Tungstic Wells-Dawson Acid. <i>Laura E Briand - Luis A Gambaro - Graciela M Valle - Israel E Wachs</i> Presenting Author: Laura E Briand ZCSS and Dept. Chem. Eng., Lehigh University, 7 Asa Drive, Bethlehem, PA 18015, USA. - CINDECA, CONICET-8211;UNLP, Calle 47 No 257, (B1900AJK) La Plata, Bs. As., Argentina.</p>	PRE-077 P-392
<p>Nickel And Tungsten Carbides Supported On Zirconia As A New Catalysts For Methane Reforming <i>Jose Aaron Melo-Banda - Claudia Gonzalez S. - Monica Gomez Ruiz - Juan S. Castelan G. - Antonio Toledo A. - Guillermo Sandoval R. - Jose Manuel Dominguez Esquivel</i> Presenting Author: Jose Aaron Melo-Banda Instituto Tecnológico De Ciudad Madero - Instituto Mexicano Del Petróleo</p>	PRE-084 P-393
<p>Influence Of Preparation Method In The Activity Of Pd/SiO₂ And Pd/NbO₅ Catalysts. <i>Marivone N. S. C. Roma - Juliana M. Da Silva</i> Presenting Author: Marivone N. S. C. Roma Faculdade De Engenharia Química De Lorena</p>	PRE-096 P-394
<p>Morphology and Phase Control of Nanoporous Materials by Microwave Synthesis <i>Sung Hwa Jung - Jong-San Chang - Sang-Eon Park</i> Presenting author: Sang-Eon Park Korea Research Institute of Chemical Technology</p>	PRE-098 P-395
<p>Optimization of Catalyst Design Parameters Using Taguchi Method of Experimental Design <i>Cem Özdemir - Ayse N Akin - Ramazan Yildirim</i> Presenting author: Ramazan Yildirim Bo-287;aziçi University, Department of Chemical Engineering - Kocaeli University Department of Chemical Engineering</p>	PRE-100 P-396
<p>Mechanistic Study of Partial Oxidation of Methane to Synthesis Gas over Rh/Al₂O₃ Catalyst <i>Jun Z Zhang - Peter Tijn - Nicholas Vanderborgh</i> Presenting author: Jun Z Zhang Blue Star Sustainable Technology Corporation</p>	PRE-123 P-397
<p>DMSO as a Modifier in Heterogeneous Reactions with Platinum Catalysts <i>Konrad D Moebus - Peter Albers</i> Presenting author: Konrad D Moebus Degussa Corporation, Catalysts & Initiators - Degussa AG</p>	PRE-125 P-398
Mesoporous and Nanocomposite Catalysts	Coral Gallery
<p>Controlled gas-phase preparation and characterization of highly dispersed silica-supported vanadia catalysts <i>Jetta Keränen - Claude Guimon - Ero Iiskola - Aline Auroux - Lauri Niinistö</i> Presenting author: Jetta Keränen Institut de Recherches sur la Catalyse, CNRS - Helsinki University of Technology - LPCM, Université de Pau</p>	PRE-074 P-399
<p>Acid/Base and Textural Properties of Transition Aluminas Prepared from Hydrothermally Treated Boehmite <i>Ma. del Rosario Morales Armenta - Jaime Sánchez Valente - L. Francisco Pedraza Archila - Francisco J. Hernández-Beltrán - Brent E. Handy</i> Presenting author: Ma. del Rosario Morales Armenta Universidad Autónoma de San Luis Potosí - Instituto Mexicano del Petróleo</p>	PRE-079 P-400
<p>Synthesis and Structural Characterization of Model Au/Al₂O₃ and Au-Sn/Al₂O₃ Catalysts <i>Juan C Fierro-Gonzalez - Javier Guzman - Bruce C Gates</i> Presenting author: Juan C Fierro-Gonzalez University of California, Davis</p>	PRE-086 P-401



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Mesoporous and Nanocomposite Catalysts	Coral Gallery
Title	Page
<p>Synthesis, Characterization, And Hydrodesulfuration Properties Of Ni-Mo Catalysts Supported On Ti(X)Mcm-4 <i>Celia Calderon Salas - Jose Aaron Melo-Banda - Jose Manuel Dominguez Esquivel - Armando Vazquez Rodriguez - Rebeca Silva Rodrigo</i> Presenting Author: Rebeca Silva Rodrigo Instituto Tecnológico De Ciudad Madero - Instituto Mexicano Del Petroleo</p>	PRE-087 P-402
<p>Beta Zeolite/Alumina Catalysts In n-Heptane Conversion <i>Blanca L. Medellin - Sandra D. Arvizu - Ma. Lourdes Ramirez - Jesus M. Bautista - Hector Silva</i> Presenting Author: Blanca L. Medellin Instituto Mexicano Del Petroleo</p>	PRE-090 P-403
<p>Changes in the Apparent Activation Energy For Ethylene Hydrogenation During Selective Acetylene Hydrogenation on Pd-Ag/SiO₂. <i>Hugo R Zea - Kelvin Lester - Abhaya K Datye - E. G. Rightor - R. J. Gulotty - J. J. Maj - J. Blackson - M. Holbrook - C. Michael Smith</i> Presenting author: Hugo R Zea University of New Mexico, Center for Microengineered Materials and Department of Chemical & Nuclear Engineering - The Dow Chemical Company</p>	PRE-092 P-404
<p>Characterization of activated carbon supported catalysts: I. Calcination and reduction behaviors of Pt- and Au-based catalysts <i>Ahmet E Aksoylu - Sezen Gurdag - Burcu Selen - Zeynep I Onsan</i> Presenting author: Ahmet E Aksoylu Department of Chemical Engineering, Bogaziçi University, Istanbul</p>	PRE-094 P-405
<p>Synthesis of Al-La-Pillared Clays Using Microwave Irradiation <i>Mario Alberto Trejo - Sergio Odin flores - ivan alejandro Córdova - Miguel Angel Valenzuela - Geolar Fetter</i> Presenting author: Mario Alberto Trejo 1 Laboratorio de Catálisis y Materiales, UPALM Ed. 8 ZACATENCO 07738, México, D. F. - BUAP, 14 Sur y Av. San Claudio 72570, Puebla, Puebla.</p>	PRE-105 P-406
<p>Synthesis Of Exfoliated Bentonite Clay With Pvp And Pva Polymers <i>Armando García Reyes - Luis De La Torre - Luz Arcelia García Serrano - Alfredo Aguilar-Elguézabal</i> Presenting author: Armando García Reyes Centro de Investigación en Materiales Avanzados, S.C. (CIMAV)</p>	PRE-106 P-407
<p>The Study on Physico-chemical and Catalysis Properties of Y Zeolites Modified with Phosphorus <i>Jianqiu Zhang - Huiping Tian</i> Presenting author: Jianqiu Zhang Research Institute of Petroleum Processing(RIPP), SINOPEC</p>	PRE-108 P-408
<p>Microporosity in Dealuminated Mordenites. Adsorption of Nitrogen at 76 K and Characteristic Energy of Adsorption <i>Miguel Angel Hernandez Espinosa - Miguel Avalos Borja - Vitalii Petranovskii</i> Presenting author: Miguel Angel Hernandez Espinosa Departamento de Investigacion en Zeolitas, Instituto de Ciencias de la Universidad Autonoma de Puebla - Centro de Ciencias de la Materia Condensada, UNAM, Ensenada, B.C.</p>	PRE-117 P-409
<p>Genesis and catalytic performance of highly dispersed Pd metal clusters supported on graphitised carbon <i>Alexander Yu. Stakheev - Natalia S. Telegins - Galina N. Baeva - Wolfgang Grünert - Konstantin V. Klement'ev - Olga P. Tkachenko - Gennady I. Kapustin - Leonid M. Kustov</i> Presenting author: Alexander Yu. Stakheev Zelinsky Institute of Organic Chemistry - Ruhr-Universität Bochum</p>	PRE-119 P-410
<p>Hydrothermal Synthesis of Boehmite from Aluminum Sulfate <i>María de Lourdes A. Guzmán Castillo - Francisco J. Hernández-Beltrán - Andrea Rodríguez-Hernández - Xim Bokhimi</i> Presenting author: María de Lourdes A. Guzmán Castillo Instituto Mexicano del Petróleo - UNAM</p>	PRE-122 P-411



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Recent Report	Coral Gallery
Title	Page
Alkylations With Celite As Catalyst <i>Irma Rojas-Oviedo - Jorge Cárdenas - Lucía del Carmen Márquez</i> Presenting author: Irma Rojas-Oviedo Departamento de Sistemas Biológicos.UAM-X - Instituto de Química. UNAM.	REP-02 P-412
Reduction of tungstated zirconia catalysts and its relevance to catalytic properties <i>Stefan Kuba - Povilas Lukinskas - Robert Grasselli K - Helmut Knözinger</i> Presenting author: Stefan Kuba Department Chemie, Physikalische Chemie, Ludwig-Maximilians-Universität München - Department of Chemical Engineering and Materials Science, University of California	REP-03 P-413
Highly Active [Pd(AcO)₂(dppp)] Catalyst for the CO-C₂H₄ Copolymerization in H₂O-CH₃COOH Solvent <i>Andrea Vavasori - Luigi Toniolo - Gianni Cavinato - Fabiano Visentin</i> Presenting author: Luigi Toniolo University Ca Foscari of Venice - University of Padua	REP-04 P-414
Determination of the Criteria of Co(Ni)MoS Catalysts Efficiency for HDS of Various Types of Crudes. Radioisotopic Study <i>Victor M. Kogan</i> N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences	REP-05 P-415
The Electrochemical Promotion of Rh Catalysed Fischer-Tropsch synthesis <i>Andrew J Urquhart - Federico J Williams - James M Keel - Richard M Lambert</i> Presenting author: Andrew J Urquhart University of Cambridge	REP-06 P-416
Fundamental Aspects in the Deposition of g-Al₂O₃ Layers on Ceramic and Metallic Supports for Preparation of Structured Catalysts <i>Michela Valentini - Gianpiero Groppi - Cinzia Cristiani - Marinella Levi - Enrico Tronconi - Pio Forzatti</i> Presenting author: Michela Valentini Politecnico di Milano	REP-07 P-417
The Origin of the Ligand/Electronic Effect in Mixed Metal Oxide Catalysts <i>Israel E. Wachs - Xiang Wang</i> Presenting author: Israel E. Wachs Lehigh University	REP-08 P-418
Nanophase composite catalysts for electrosynthesis <i>Leslie F Petrik - Vladimir M Linkov</i> Presenting author: Leslie F Petrik Department of Chemistry, University of the Western Cape, Private Bag X17, Bellville, CapeTown, 7535	REP-09 P-419
Alkene Selective Oxidation on Cu/Au Surfaces <i>Georgios Kyriakou - Federico J Williams - Tikhov S Mintcho - Richard M Lambert</i> Presenting author: Georgios Kyriakou University of Cambridge	REP-10 P-420
Low Olefin Polymerization On Confined Active Centers Of Transition Metal Carbonyls <i>Raúl Rosas-Salas - José M. Domínguez - Cecilio Alvarez - Raúl J. Quijada - Shang-Bin Liu</i> Presenting author: Raúl Rosas-Salas Instituto Mexicano del Petroleo, Eje Central Lázaro Cárdenas 152. 07730, México D.F. - Instituto de Química (UNAM) Circuito Ext. S/N, C.U, 04510. Coyoacán México D.F. - CIMAT, Ciencias Físicas y Matemáticas Beaucheff 86, casilla 2777 Santiago-Chile - Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan.	REP-11 P-421
Acrylonitrile Catalyst Improvements Through Preparative Order of Addition Changes <i>Anita L. Cain - Joe G. Cueva - Margie M. Dawson - Paul J. Mordente - George S. Pappas - Ron E. Roberts - Cathy L. Tway</i> Presenting author: Cathy L. Tway Solutia Inc.	REP-12 P-422



18th North American Catalysis Society Meeting
 Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Recent Report	Coral Gallery
Title	Page
<p>The One-Step Synthesis of MIBK via Catalytic Distillation: Kinetics of the Selective Hydrogenation of Mesityl Oxide <i>William K. O'Keefe - Ming Jiang - Flora T. T. Ng - Garry L. Rempel</i> Presenting author: William K. O'Keefe The University of Waterloo</p>	REP-13 P-423
<p>Photocatalytic oxidation of chlorinated hydrocarbons with TiO₂ on magnesium silicate monoliths <i>Benigno Sánchez Cabrero - Roberto Candal - Ana Isabel Cardona García - Pedro Ávila García - Moisés M.R. Rebollar</i> Presenting author: Benigno Sánchez Cabrero CIEMAT - CSIC - INQUIMAE</p>	REP-14 P-424
<p>Modified Beta Zeolites for Alkylation of Benzene using batch and continuous fixed-bed reactors <i>Genoveva Buelna - Tina M. Nenoff - Mutlu Kartin - Steven M. Thornberg - Ion C. Abraham - Deborah E. Hunka</i> Presenting author: Genoveva Buelna Chem and Bio Technologies Department; Sandia National Laboratories - Chemical and Biological Sensing, Imaging and Analysis Department; Sandia National Laboratories</p>	REP-15 P-425
<p>Ethanol Partial Oxidation on Supported Platinum Catalysts for Hydrogen Production for Fuel Cell Applications <i>Edson Leme Rodrigues - Wesley Bize da Silva - Lisiane Veiga Mattos - Fábio Bellot Noronha</i> Presenting author: Edson Leme Rodrigues Instituto Nacional de Tecnologia</p>	REP-16 P-426
<p>Optimal Conditions of Toluene Ethylation Using Acidic MEL as Catalyst <i>Nora Elizondo - Héctor M. M. Guerrero - Ricardo Obregón</i> Presenting author: Nora Elizondo Universidad Autónoma de Nuevo León</p>	REP-18 P-427
<p>Inhibition effects of carbazole in the hydrodesulfurization of dibenzothiophene over NiMoP/Al₂O₃ <i>Alejandro Montesinos - Jose Atonio de los Reyes</i> Presenting author: Alejandro Montesinos Universidad Autónoma Metropolitana- Iztapalapa</p>	REP-19 P-428
<p>Dibenzothiophene HDS Over Sulfided CoMoP on High-Silica USY Zeolites <i>Gerardo Lara Cisneros - José Escobar Aguilar - José A. Colín Luna - José A. De Los Reyes Heredia - María C. Barrera Domínguez</i> Presenting author: José Escobar Aguilar Instituto Mexicano del Petróleo, México - Universidad Autónoma Metropolitana-Azcapotzalco, México - Universidad Autónoma Metropolitana-Iztapalapa, México</p>	REP-20 P-429
<p>Recycling of plastic materials employing FCC catalysts from a refinery plant <i>M. Sánchez-S. - J. Aguilar-P. - F. Hernández-B. - Andrea Rodríguez-H. - Luis Noreña-F. - I. Hernández-P.</i> Presenting author: Luis Noreña-F. Universidad Autónoma Metropolitana-Azcapotzalco - Instituto Mexicano del Petróleo</p>	REP-21 P-430
<p>Use of High Resolution Fourier Transform – Mass Spectrometry for Support of Heterogeneous Catalyst Product Analysis <i>Dean Davis - Kenneth Gallaher - Ulrich Gokeler - Wayne Rimkus</i> Presenting author: Kenneth Gallaher Siemens Applied Automation, 500 W Highway 60, Bartlesville, OK USA</p>	REP-24 P-431
<p>Inducing Realistic FCC Accessibility Responses to Iron Poisoning in Lab-Scale Deactivations <i>Darrell Rainer - E. Rautiainen - P. Imhof</i> Presenting author: Darrell Rainer Akzo Nobel Catalysts LLC</p>	REP-25 P-432



18th North American Catalysis Society Meeting
Cancun, Mexico. June 1-6, 2003
OFFICIAL PROGRAM

Wednesday June 4, 2003	
Recent Report	Coral Gallery
<i>Title</i>	<i>Page</i>
Comparative study of fluorination of zeolites by molecular fluorine <i>Noma A. Sánchez - José M. Saniger - José J. Fripiat</i> Presenting author: Noma A. Sánchez Centro de Ciencias Aplicadas y Desarrollo Tecnológico, UNAM	REP-26 P-433
Teflon-Coated Molecular Reactors: Synthesis and Reactivity <i>Hyun-Jin Lee - Sergiu M. Gorun</i> Presenting author: Hyun-Jin Lee Brown University	REP-27 P-434
Metalloporphyrins Supported on Solid Polymer Matrices as Catalysts for Enzyme Model Reactions <i>Moothetty Padmanabhan</i> Presenting author: Moothetty Padmanabhan School of Chemical Sciences, Mahatma Gandhi University	REP-28 P-435
Selectivity promotion by halogens in the Ag-catalysed epoxidation of ethene: the final chapter in a long story <i>Richard M Lambert - Rachael L Cropley - Alifiya Husain - Mintcho S Tikhov</i> Presenting author: Rachael L Cropley Department of Chemistry, University of Cambridge	REP-01 P-436
A reusable diamine - Ru asymmetric hydrogenation catalyst anchored on MCM-41 <i>Cuauhtémoc Pérez - Salud Pérez - Gustavo A. Fuentes</i> Presenting author: Gustavo A. Fuentes Departamento de Sistemas Biológicos - Universidad A. Metropolitana- Xochimilco - Departamento Ing. de Procesos e Hidráulica, Universidad A. Metropolitana-Iztapalapa	REP-29 P-437
One pot catalytic synthesis of heterocycles using a homogeneous nickel catalyst in water <i>Noé Rosas - Pankaj Sharma - Ana Maria Hernández - Yair Gutierrez - Minerva Méndez</i> Presenting author: Noé Rosas Instituto de Química, Universidad Nacional Autónoma de México, Ciudad Universitaria, Circuito Exterior, Coyoacán, 04510 México, D. F., México	REP-30 P-438