



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

	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday (morning only)</i>
<i>Plenary Grand Coral</i>					
<i>Grand Coral 1</i>					
<i>Grand Coral 3</i>		(1)		Coral Island	
<i>Coral Garden</i>					
<i>Coral Kingdom</i>					
<i>Coral Sea</i>					

Gallery Room
Gallery Room

17 20:00
17:30-20:00

Grand Coral 1

17:30-19:30



18th North American Catalysis Society Meeting
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Monday

Scientific Program

Grand Coral 3

Acid-Base Catalysis (1)

Synthesis And Structural Characterization Of Novel Solid Acids And Bases

Time	Ref. Code	Title
11:00	KEY-5 13	Keynote: Nano-Structure and Catalysis of Novel Superacids Based on Polyoxometalates <i>Okuhara</i> Presenting Author: Toshio Okuhara Graduate School of Environmental Earth Science, Hokkaido University
11:40	ABC-35 14	Role of Bulk Phase in Sulfated Zirconia Catalysts <i>Jentoft - Klose - Hahn - Jentoft - Ressler - Ahmad - Melsheimer - Yang - Schloegl</i> Presenting Author: Friederike C Jentoft Fritz Haber Institute of the Max Planck Society -
12:00	ABC-21 15	The Role of Promoters in Tungstated Zirconia Catalysts <i>Lukinskas - Kuba - Spliethoff - Grasselli - Tesche - Knoezinger</i> Presenting Author: H. Knoezinger Department Chemie, LMU Muenchen, Butenandtstr. 5-13, Haus E, D-81377 Muenchen - Max-Planck-Institut für Kohleforschung, Kaiser-Wilhelm-Platz 1, D-45470 Muelheim/Ruhr -
12:20	ABC-2 16	Synthesis and characterisation of sulphate and phosphate modified silica-zirconia mixed oxide catalysts <i>Anderson - Rosenberg</i> Presenting Author: James A. Anderson University of Dundee
12:40	ABC-7 17	Structural Changes in Hydrothermally Dealuminated Y Zeolites <i>Madon - Liu - Sanchez-Castillo - Dumesic</i> Presenting Author: Rostam J Madon Engelhard Corporation, Iselin, NJ 08830 - University of Wisconsin, Madison, WI 53706 -

Reaction Chemistry And Functional Characterization Of Solid Acids And Bases			



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Monday
 Grand Coral 3

Scientific Program

Acid-Base Catalysis (2)

Reaction Chemistry And Functional Characterization Of Solid Acids And Bases

Time	Ref. Code	Title
15:00	KEY-13 18	Keynote: Functional characterization and reaction chemistry of solid acids <i>Lercher</i> Presenting Author: Johannes Lercher Institute for Chemical Technology, Technische Universität München, Lichtenbergstr. 4, 85748 Garching
15:40	ABC-8 19	n-Butane Isomerization on Tungstated Zirconia: Site Activation <i>Hammache - Goodwin, Jr. - Gorkule</i> Presenting Author: James G. Goodwin, Jr. Clemson University -
15:00	ABC-5 20	Hydroxylation of Benzene to Phenol with N ₂ O on Zeolitic Materials <i>Concepción - Corma - López Nieto - Jensen - Nemeth</i> Presenting Author: Laszlo T. Nemeth UOP LLC - Instituto Tecnología Química, UPV-CSIC -
15:20	ABC-10 21	Aldol Condensation of Aldehydes and Ketones over Solid Base Catalysts <i>Kelly - King</i> Presenting Author: Gordon J Kelly Synetix -
15:40	ABC-24 22	Elimination reactions of secondary alcohols on Mg-Al mixed oxides <i>Diez - Apesteguía - Di Cosimo</i> Presenting Author: Juana Isabel Di Cosimo Instituto de Investigaciones en Catálisis y Petroquímica (INCAPE) -

Synthesis And Structural Characterization Of Novel Solid Acids And Bases			



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Tuesday
 Coral Garden

Scientific Program

Advanced Fuels (1)

Fuel Diesel: Emissions Control&Source Of Hydrogen For Fuel Cells

Time	Ref. Code	Title
8:30	KEY-16 88	Keynote: ADVANCED VEHICLE TECHNOLOGY AND THE IMPACT ON CHOICES FOR MOTOR FUELS <i>Kaldor</i> Presenting Author: Andrew Kaldor ExxonMobil Research & Engineering Company
9:10	ENV-10 89	Selective Catalytic Reduction of Diesel Engine NOx Emissions with NH3/Urea <i>Baik - Yim - Nam - Lee - Cho - Oh</i> Presenting Author: In-Sik Nam Department of Chemical Engineering/School of Environmental Science and Engineering, Pohang University of Science and Technology (POSTECH) - General Motors R&D Center -
9:30	ENV-119 90	Catalytic Abatement of Diesel Exhaust Contaminants: Thermal Analysis of K(x)/La2O3. <i>Milt - Querini - Miro</i> Presenting Author: Carlos A. Querini INCAPE -
9:50	ENV-66 91	Understanding the Complexity of the Diesel Soot Oxidation Kinetics <i>Yezerets - Currier - Eadler - Suresh</i> Presenting Author: Aleksey Yezerets Cummins, Inc. -
10:10	FCE-18 92	Diesel Reforming for Fuel Cell Application in a 1- to 5-Kilowatt ATR Reformer <i>Liu - Liao - Miller - Ahmed</i> Presenting Author: Di-Jia Liu Chemical Technology Division, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439 -

Catalysis For Improved Fuel Processor Systems			



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Tuesday
 Coral Garden
 Advanced Fuels (2)

Scientific Program

Catalysis For Improved Fuel Processor Systems

Time	Ref. Code	Title
11:00	FCE-36 93	Development and optimization of a compact methanol reformer for fuel cell vehicles <i>Lindström - Pettersson</i> Presenting Author: Lars J. Pettersson KTH-Royal Institute of Technology -
11:20	FCE-19 94	Kinetics of water-gas shift reaction on copper catalysts: application to fuel cell reformers <i>Koryabkina - Phatak - Ribeiro - Ruettinger - Farrauto</i> Presenting Author: Wolfgang F. Ruettinger Worcester Polytechnic Institute, Department of Chemical Engineering, 100 Institute Road, Worcester, Massachusetts 01609-2280 - Engelhard Corporation, 101 Wood Avenue, Iselin, New Jersey 08830 -
11:40	FCE-17 95	Water Gas Shift Catalyst Options for Fuel Processing <i>Wagner - Balakos</i> Presenting Author: Jon P. Wagner Sud-Chemie Inc. -
12:00	FCE-44 96	MULTIFUEL CLEAN-UP CONSIDERATIONS FOR HIGH TEMPERATURE FUEL CELLS <i>Katikaneni - Farooque</i> Presenting Author: Sai P Katikaneni FuelCell Energy -
12:20	FCE-38 97	Partial Oxidation Reactor Equipped with Metallic Monolith Catalysts for Fuel Cell Application <i>Jung - Yoon - Lee - Park - Lee - Lee - La - Lee - Shin</i> Presenting Author: Heon Jung Korea Institute of Energy Research - Korea University - Chungbuk University -
12:40	FCE-34 98	Catalytic Combustion of Light Hydrocarbons under Fuel-Rich Conditions <i>Avcı - Trimm - Aksoylu - Onsan</i> Presenting Author: Zeynep I Onsan Department of Chemical Engineering, Bogazici University, 80815 Bebek, Istanbul - School of Chemical Engineering and Industrial Chemistry, University of New South Wales, Sydney 2052 -

Fuel Diesel: Emissions Control&Source Of Hydrogen For Fuel Cells			
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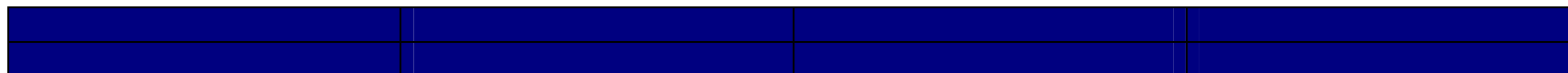


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Tuesday
Coral Sea
Biocatalysis (1)
Biocatalysis

Scientific Program

Time	Ref. Code	Title
15:00	BIO-4 130	Microstructured carbon ceramic supports for invertase and glucoamylase immobilization <i>Simakov - Komova - Kovalenko - Rudina - Perminova - Khomov</i> Presenting Author: Andrey Simakov Centro de Ciencias de la Materia Condensada-UNAM - Borekov Institute of Catalysis - Institute of Organic Chemistry -
15:20	BIO-7 131	Variations in the state of water aggregation affect dramatically the enzymatic synthesis of glycosides at 90 oC <i>Montiel - Pérez-Munguía - García-Garibay - Bárzana</i> Presenting Author: E. Bárzana Depto. De Alimentos y Biotecnología. Fac. de Química. UNAM - Depto. Biotecnología. CBS. UAM Iztapalapa -
15:40	KEY-20 132	Keynote: Micro- and Nanoscale Biocatalysis: New Paradigms for Drug and Materials Discovery <i>Dordick</i> Presenting Author: Jonathan S. Dordick Rensselaer Polytechnic Institute
15:20	BIO-1 133	Synthesis Optimization of Isoamyl Butyrate by Newly Microbial Lipases in solvent-free system. <i>Macedo</i> Presenting Author: Gabriela Alves Macedo Unicamp





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Friday
Coral Garden

Scientific Program

Catalysis of C₁ and C₂ Reactions (1)
Catalysis Of C₁-C₂ Reactions I

Time	Ref. Code	Title
8:30	KEY-30 286	Keynote: Structural Requirements and Activation Pathways in Reactions of Methane Catalyzed by Supported Metals <i>Wei - Iglesia</i> Presenting Author: Enrique Iglesia University of California Berkeley -
9:10	GEN-17 287	Fischer-Tropsch Synthesis : Effect of water and pore diameter of Al ₂ O ₃ supports on cobalt catalysts <i>Das - Jacobs - Conner - Davis</i> Presenting Author: Tapan K Das University of Kentucky, Center for Applied Energy Research -
9:30	GEN-4 288	Selforganization of the Fischer-Tropsch-Regime with Cobalt and Iron Catalysts <i>Schulz</i> Presenting Author: Hans Schulz Hans Schulz University of Karlsruhe, Engler-Bunte-Institute, Kaiserstrasse 12, 76131 Karlsruhe, Germany
9:50	GEN-14 289	Nb-supported HZSM-5 based catalysts for nonoxidative methane dehydroaromatization reaction <i>Napolitano - Junqueira - Soares</i> Presenting Author: Ricardo Reis Soares Faculty of Chemical Engineering - Federal University of Uberlandia -
10:10	IND-37 290	Production of C ₂ -C ₄ Alcohols from Synthesis Gas <i>Lunev - Strizhak</i> Presenting Author: Peter E. Strizhak L.V.Pisarzhetskii Institute of Physical Chemistry, National Academy of Sciences of Ukraine -

Catalysis Of C ₁ -C ₂ Reactions II			
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Scientific Program

Catalysis of C₁ and C₂ Reactions (2)
 Catalysis Of C₁-C₂ Reactions II

Time	Ref. Code	Title
11:00	MOX-22 291	Marked Reactivity of Carbonaceous Species Formed by the Decomposition of Methane with CO over Silica Supported Rh and Ru Catalysts <i>NAITO - Maeda - MIYAO</i> Presenting Author: SHUICHI NAITO Department of Applied Chemistry, Kanagawa University -
11:20	PRE-58 292	Designing the Activity/Selectivity of Surface Acidic, Basic and Redox Active Sites in the K ₂ O-V ₂ O ₅ /Al ₂ O ₃ Catalytic System <i>Wang - Jehng - Wachs</i> Presenting Author: Xiang Wang Lehigh University - National Chung Hsing University -
11:40	IND-4 293	Control Of Fischer-Tropsch Activity And Selectivity By Changes In The Solid State Chemistry Of Supported Co <i>Soled - Iglesia - Fiato - Baumgartner - Vroman - Miseo</i> Presenting Author: Stuart L. Soled ExxonMobil Research & Engineering Company - University of California at Berkeley -
12:00	IND-18 294	Highly-dispersed Cobalt Fischer-Tropsch Catalysts <i>Lok - Norval</i> Presenting Author: Martin Lok Syntex - ICI -
12:20	IND-17 295	Comparison of Performance of an Iron Fischer-Tropsch Catalyst in a Fixed-Bed Reactor, CSTR, and SBCR <i>Nikolopoulos - Gangwal</i> Presenting Author: Apostolos A. Nikolopoulos RTI International -
12:40	PRE-83 296	Mono-dispersed iron crystallites as catalysts for Fischer-Tropsch synthesis <i>Mabaso - Claeys - van Steen</i> Presenting Author: Michael Claeys Catalysis Research Unit, Dept. Chem. Eng., University of Cape Town -

Catalysis Of C₁-C₂ Reactions I



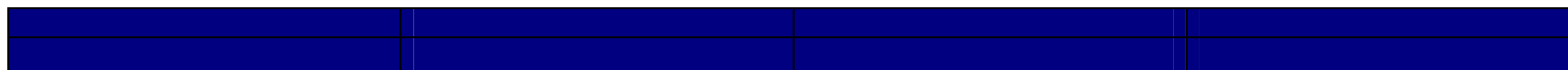
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Tuesday
Coral Garden

Scientific Program

Combinatorial Catalysis (1)
Combinatorial Catalysis

Time	Ref. Code	Title
15:00	COB-5 99	High-Throughput Screening of Heterogeneous Catalysts for the Oxidation of Ethane to Acetic Acid in a Massively Parallel Microfluidic Reactor <i>Bergh - Guan - Hagemeyer - Lugmair - Mott - Turner - Volpe Jr - Weinberg</i> Presenting Author: Alfred Hagemeyer Symyx Technologies Inc. - Celanese Ltd. -
15:20	COB-8 100	The Application of Combinatorial Methodologies to the Selective Catalytic Reduction of NO by C ₃ H ₆ in a Simulated Lean-Burn Exhaust <i>Krantz - Ozturk - Onal - Senkan</i> Presenting Author: Kevin Krantz UCLA Chemical Engineering, Los Angeles, CA 90095 - METU Chemical Engineering, Ankara, Turkey -
15:40	COB-3 101	Application of Combinatorial Methods and High Throughput Screening to Discovery of Non-Pt Catalysts for Hydrocarbon Dehydrogenation <i>Sachtler - Bricker - Gillespie - Holmgren - McGonegal</i> Presenting Author: J.W. Adriaan Sachtler UOP LLC -
16:00	COB-1 102	High Throughput Experimentation Applied to Heterogeneous Catalysis <i>Strehlau - Schunk Haas - Brenner - Dermuth - Finger - Foedisch - Schueth - Stichert - Sunderman - Zech - Vietze</i> Presenting Author: Stephan A. Schunk hte Aktiengesellschaft - the high throughput experimentation company
16:20	KEY-18 103	Keynote: High Throughput Experimentation (HTE) in Industrial Catalysis <i>Gruter - van den Brink - Sijpkes - Verhoef - Nagy</i> Presenting Author: Jan Gruter Avantium Technologies, Amsterdam -





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 Grand Coral 1

Scientific Program

Computational Catalysis (1)

Theoretical Heterogeneous Catalysis I-Zeolites

Time	Ref. Code	Title
15:00	KEY-2 67	Keynote: Theory of zeolite catalysis <i>van Santen</i> Presenting Author: Rutger A. van Santen Eindhoven University of Technology
15:40	COM-13 68	Olefin Adsorption in H-ZSM-5: Energy Barriers and Mechanism from DFT Calculations <i>Bhan - Joshi - Delgass - Thomson</i> Presenting Author: Kendall T Thomson Purdue University -
16:00	COM-10 69	Effect of Local Framework Heterogeneity on the Catalytic Activity of Cobalt-Ferrierite <i>McMillan - Broadbelt - Snurr</i> Presenting Author: Scott A. McMillan Department of Chemical Engineering, Northwestern University -
16:20	COM-4 70	Activation of Alkanes in Zeolites: DFT Studies of EFAL Species in Olefin Formation <i>Bhering - Mota - Solis</i> Presenting Author: Daniel L. Bhering Instituto de Química - UFRJ - Facultad de Ciencias - UAEM -

Theoretical Heterogeneous Catalysis II-Metals And Oxides	Fundamental Studies Of Surface Reactivity In Catalysis: Theory And Experiment		



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Grand Coral 1

Computational Catalysis (2)

Theoretical Heterogeneous Catalysis II-Metals And Oxides

Scientific Program

Time	Ref. Code	Title
11:00	COM-12 135	Simulated Acid/Base and Redox Reactions on Hydrated Ceria Surfaces <i>Opalka - Vanderspurt</i> Presenting Author: Susanne M Opalka United Technologies Research Center -
11:20	COM-9 136	An Upper Bound on the Yield for the Oxidative Coupling of Methane <i>Su - Ying - Green, Jr.</i> Presenting Author: Yee San Su Massachusetts Institute of Technology -
11:40	COM-3 137	Understanding and Predicting Catalytic Properties of Bimetallic Catalysts From Experiments and First Principles <i>Kitchin - Barteau - Chen</i> Presenting Author: John R Kitchin University of Delaware -
12:00	COM-20 138	Importance of Relaxation on the Electronic Structure of Differently Terminated Vanadium Sesquioxide Surfaces: ab initio DFT Studies <i>Hermann - Czekaj - Witko</i> Presenting Author: Klaus Hermann Fritz-Haber-Institut der MPG - Institute of Catalysis, Polish Academy of Sciences -
12:20	KEY-21 139	Keynote: DFT cluster model studies of phase transformations in the V-P-O system <i>Witko - Haras</i> Presenting Author: Malgorzata S. Witko Institute of Catalysis and Surface Chemistry -

Theoretical Heterogeneous Catalysis I-Zeolites	Fundamental Studies Of Surface Reactivity In Catalysis: Theory And Experiment		



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 Grand Coral 1

Scientific Program

Computational Catalysis (3)

Fundamental Studies Of Surface Reactivity In Catalysis: Theory And Experiment

Time	Ref. Code	Title
15:00	KEY-22 140	Keynote: Hydrogen Generation by Catalytic Reforming of Oxygenated Hydrocarbons in Liquid Water <i>Dumesic - Davda - Alcalá - Shabaker - Huber - Cortright - Mavrikakis</i> Presenting Author: James A. Dumesic U. Wisconsin-Madison -
15:40	COM-18 141	Trends in reactivity for transition metals. <i>Bligaard - Nørskov</i> Presenting Author: Thomas Bligaard Center for Atomic-scale Materials Physics, Department of Physics, Technical University of Denmark. -
16:00	COM-6 P-323	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 - Cecilian S. B. - Oliveira - Octávio A. C. Antunes</i> Presenting Author: Donato A. G. Aranda
16:20	COM-15 143	Characterization of NO _x Species Adsorbed on BaO: Experiment and Theory <i>Broqvist - Grönbeck - Fridell - Panas</i> Presenting Author: Peter Broqvist Department of Applied Physics, Chalmers University of Technology - Competence Centre for Catalysis, Chalmers University of Technology - Department of Environmental Inorganic Chemistry, Chalmers University of Technology -
16:40	COM-11 144	Molecular Simulations and Complementary Studies on the Structure, Acidity and Redox Character of Vanadia Partial Oxidation Catalysts <i>Vilchiz Bravo - Martínez González - Handy - Pedraza Archila - Hernández Beltrán - Cárdenas Galindo</i> Presenting Author: Luis Enrique Vilchiz Bravo Universidad Autónoma de San Luis Potosí - Instituto Mexicano del Petróleo -

Theoretical Heterogeneous Catalysis I-Zeolites	Theoretical Heterogeneous Catalysis II-Metals And Oxides		



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Coral Sea

Scientific Program

Catalysis of Organic Reactions (1)
Catalysis Of Organic Reactions I

Time	Ref. Code	Title
11:00	KEY-6 44	Keynote: DuPont's Versipol® Late Metal Polymerization Catalysts <i>Ittel</i> Presenting Author: Steven D. Ittel DuPont Central Research; Experimental Station, E328/331; Wilmington, DE 19880-0328; USA.
11:40	COS-30 45	Enhanced Activity of Immobilized Bisoxazoline Ligands for the Asymmetric Diels-Alder Reaction <i>Lancaster - Ying</i> Presenting Author: Thomas M. Lancaster Massachusetts Institute of Technology -
12:00	COS-8 46	Activation of Aryl Chlorides for Suzuki Cross-Coupling by Ligandless, Heterogeneous Palladium <i>Sun - LeBlond - Andrews - Sowa</i> Presenting Author: Yongkui Sun Catalysis Laboratory, Merck Research Laboratories, Rahway, NJ 07065 - Department of Chemistry and Biochemistry, Seton Hall University, South Orange, NJ 07079 -
12:20	COS-15 47	Practical Process Solutions For Organometal-Catalyzed Reactions <i>Kotnis - Simpson - Totleben - Prasad - Lotz - Natalie - Singh - Kacsur - Thurston - Deshpande</i> Presenting Author: Atul S Kotnis Bristol-Myers Squibb Pharmaceuticals, New Brunswick, NJ 08903 -
12:40	COS-39 48	Direct synthesis of MIBK from acetone by use of bifunctional metal/base catalyts (Pd/X) <i>Rodrigues - Monteiro</i> Presenting Author: Jose Luiz F Monteiro Universidade Federal do Rio de Janeiro -

Catalysis Of Organic Reactions II	Catalysis Of Organic Reactions III		
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Scientific Program

Catalysis of Organic Reactions (2)
Catalysis Of Organic Reactions II

Time	Ref. Code	Title
15:00	COS-1 49	Molecularly Promoted Noble Metal Catalysts for Chemo- and Enantioselective Gas Phase Hydrogenation <i>von Arx - Hutchings-Bartley</i> Presenting Author: Matthias von Arx Department of Chemistry, Cardiff University -
15:20	COS-11 50	Effects of Catalyst Support and Solvent Selection on Removing Protecting Benzyl Groups in Fine Chemicals Synthesis <i>Chen - Lazar - Wiese - Greene - Penquite</i> Presenting Author: Jianping J.P. Chen Engelhard Corporation -
15:40	COS-21 51	Catalytic Heterogeneous Enantioselective Production of alpha-Amino Acids. <i>Gomes Junior - Hernández Valdés - Lima Bastos - Aranda - Ceva Antunes</i> Presenting Author: Octavio Augusto Ceva Antunes Universidade Federal de Rio de Janeiro -
16:00	COS-17 52	Selective Hydrogenolysis of a Benzyl Group in the Presence of an Aromatic Chlorine over Supported Palladium Catalysts <i>Wang - Li - TenHuisen - Muslehiddinoglu - Tummala - Kiang - Chen</i> Presenting Author: Steve S.Y. Wang Bristol-Myers Squibb Company - Engelhard Corporation -
16:20	COS-31 53	Zeolites and Mesoporous Sieves: Novel Selectivity and Activity Enhancement in Liquid-phase Hydrogenation for the Synthesis of Fine Chemicals <i>Hájek</i> Presenting Author: Jan Hájek Abo Akademi University
16:40	COS-7 54	The diastereoselection properties of the Ru-BEA catalysts in the prostaglandin intermediates hydrogenation <i>Coman - Parvulescu - Radu - Sobalik - DeVos - Jacobs</i> Presenting Author: Simona M Coman University of Bucharest - J. Heirovsky of the Czech Academy of Science - Katholieke Universiteit Leuven -

Catalysis Of Organic Reactions I	Catalysis Of Organic Reactions III		
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Scientific Program

Catalysis of Organic Reactions (3)
Catalysis Of Organic Reactions III

Time	Ref. Code	Title
11:00	COS-18 178	Selective Oxidation of Lower Alcohols Using Octahedral Molecular Sieves: a Property-Activity Relation Study. <i>Makwana - Son - Garces - Suib</i> Presenting Author: Vinit D. Makwana Department of Chemistry, University of Connecticut - Department of Chemical Engineering, University of Connecticut - Institute of Material Sciences, University of Connecticut -
11:20	COS-34 179	Mechanistic Studies of the Oxidative Carbonylation of Aniline with Methanol over Cu-Based Catalysts <i>Chen - Chuang</i> Presenting Author: Bei Chen The University of Akron -
11:40	COS-22 180	Catalytic hydroxylation of phenol over Cu-ZSM-5 <i>Villa - Caro - Montes</i> Presenting Author: Aida L. Villa Universidad de Antioquia -
12:00	COS-2 181	Oxidation of Propylene Glycol to Pyruvaldehyde (2-Oxopropanal) <i>Ai</i> Presenting Author: Mamoru Ai Niigata Institute of Technology
12:20	COS-23 182	Gas-phase synthesis of aromatic ketones by acylation of phenol with acetic acid <i>Apesteguía - Padro - Sepúlveda - Bosco</i> Presenting Author: Carlos R. Apesteguía Instituto de Investigaciones en Catálisis y Petroquímica (INCAPE) -
12:40	COS-36 183	Waste-Reducing Catalysis for Amidation and Alkylaromatic Oxidation Processes <i>Dooley - Song - Iyer - Warren</i> Presenting Author: Yujun Song Dept. of Chemical Engineering, Louisiana State Univ., Baton Rouge, LA 70803 - EagleView Technologies, P.O. Box 552, Blountville, TN 37617 -

Catalysis Of Organic Reactions I	Catalysis Of Organic Reactions II		



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Friday
 Coral Kingdom

Scientific Program

Deactivation and Reaction Engineering (1)
Deactivation And Reaction Engineering I

Time	Ref. Code	Title
8:30	KEY-31 297	Keynote: Deactivation and Regeneration of Isobutane Alkylation Catalysts <i>Querini - Panattoni</i> Presenting Author: C. A. Querini Instituto de Investigaciones en Catálisis y Petroquímica (INCAPE) -(Universidad Nacional del Litoral – CONICET)
9:10	DRE-18 298	Deactivation and Regeneration of Nanocrystalline Gold Water Gas Shift Catalysts <i>Kim - Bej - Thompson</i> Presenting Author: Chang Hwan Kim University of Michigan at Ann Arbor
9:30	DRE-16 299	Deactivation Pathways in the Benzene Selective Oxidation with N ₂ O on FeMFI Catalysts <i>Perathoner - Pino - Centi - Giordano - Katovic - Nagy</i> Presenting Author: Siglinda Perathoner Dept. of Industrial Chemistry and Material Engineering of the University of Messina - Dept. of Chemical Engineering and Materials of the University of Calabria - Lab. de RMN, FUNDP de Namur
9:50	DRE-4 300	A Protocol for Kinetic and Modeling Studies of Redispersing Agglomerated Metal Particles on Supports <i>Fung</i> Presenting Author: Shun C Fung ExxonMobil Research and Engineering Company, Corporate Strategic Research
10:10	FCE-1 301	The Stability of Molybdenum Carbide Catalysts under Oxidative Reforming Conditions <i>LaMont - Darujati - Thomson</i> Presenting Author: David C LaMont Washington State University

Deactivation And Reaction Engineering II			



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 Coral Kingdom

Scientific Program

Deactivation and Reaction Engineering (2)

Deactivation And Reaction Engineering II

Time	Ref. Code	Title
11:00	DRE-25 302	Mechanistic Models in the Heterogeneous Catalytic Three-Phase Hydrogenation Processes of Fine Chemicals <i>Mikkola - Toukoniitty - Nieminen - Aumo - Kuusisto - Salmi - Murzin</i> Presenting Author: Jyri-Pekka T. Mikkola Industrial Chemistry, Process Chemistry Group, ÅBO AKADEMI UNIVERSITY
11:20	DRE-20 303	Carbide Structural Evolution in Working Iron Fischer-Tropsch Catalysts <i>Mansker - Datye</i> Presenting Author: Linda D Mansker Corning Incorporated - University of New Mexico
11:40	DRE-22 304	Deactivation of Supported Co and Ni Catalysts During CH ₄ Activation <i>ZHANG - Smith</i> Presenting Author: YI ZHANG Department of Chemical & Biological Engineering, University of British Columbia -
12:00	DRE-30 305	The effect of SO ₂ on the NO reduction activity of three-way catalytic converters <i>Hernández-Terán - Martínez-Hernández - Fuentes</i> Presenting Author: Gustavo A. Fuentes Área de Ingeniería Química, Universidad Autónoma Metropolitana-Iztapalapa
12:20	DRE-2 306	Butane Dehydrogenation over Pt/Alumina: Activation, Deactivation and the Generation of Selectivity. <i>Jackson - Lennon - McNamara</i> Presenting Author: S David Jackson University of Glasgow
12:40	DRE-11 307	Kinetic Modeling of Acetylene Hydrogenation on Ni-Zn-Al-Cr Catalysts. <i>Romeo - Borgna - Marchi - Monzon</i> Presenting Author: Antonio Monzon University of Zaragoza - INCAPE (UNL-FIQ-CONICET)

Deactivation And Reaction Engineering I			



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Monday
 Grand Coral 1
 Environmental (1)

Scientific Program

Catalysts For Air Pollution Abatement I

Time	Ref. Code	Title
11:00	KEY-12 2	Keynote: Vehicle Emissions Control Technologies For The Coming Millennium <i>Fisher</i> Presenting Author: Galen B. Fisher Delphi Research Labs
11:40	ENV-1 3	Activity Enhancement for Catalytic NO _x Reduction and Selective Oxidation by Structural Changes in Co/MFI and Fe/MFI <i>Sachtler - WEN - SUN - Jia - Pillai - Kim - Stair</i> Presenting Author: Wolfgang M.H. Sachtler Center for Catalysis and Surface Science, Institute for Environmental Catalysis, Northwestern University, Evanston, IL 60208, USA
12:00	ENV-28 4	Structure and Behavior of Active Sites in Fe-ZSM-5 DeNO _x Catalysts: New Insight by Spectroscopic In situ-studies <i>Matam - Schwidder - Grünert - Brückner</i> Presenting Author: Angelika Brückner Institut für Angewandte Chemie Berlin-Adlershof, P.O.Box 965011, D-12474 Berlin - Lehrstuhl für Technische Chemie, Ruhr-Universität Bochum, D-44780 Bochum
12:20	ENV-85 5	Redox Cycles over Fe/ZSM-5 <i>Chen - Lund</i> Presenting Author: Carl R. F. Lund University at Buffalo - SUNY
12:40	ENV-108 6	Selective Catalytic Reduction of NO _x by Methane over Co-H-MFI and Co-H-FER Zeolite Catalysts: Characterization and Catalytic Activity. <i>Resini - Montanari - Sannino - Bagnasco - Turco - Busca - Bregani - Notaro - Rocchini</i> Presenting Author: Carlo Resini Consorzio INSTM - Dipartimento di Ingegneria Chimica e di Processo, Università di Genova. - Dipartimento di Ingegneria Chimica, Università "Federico II" di Napoli. - BU Processi per la Generazione, CESI S.p.A.

Catalysts For Air Pollution Abatement II	Catalysts For Air Pollution Abatement III	Catalysts For Air Pollution Abatement IV	Catalysts For Clean Energy And Clean Fuel Technologies I
Catalysts For Clean Energy And Clean Fuel Technologies II	Catalysts For Clean Energy And Clean Fuel Technologies III	Green Chemistry And Engineering Through Catalysis I	Green Chemistry And Engineering Through Catalysis II



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Monday
 Grand Coral 1
 Environmental (2)

Scientific Program

Catalysts For Air Pollution Abatement II

Time	Ref. Code	Title
15:00	ENV-22 7	Adsorption Studies on Na-Y,FAU Active in Non-Thermal Plasma Assisted NO _x Reduction <i>Szanyi - Kwak - Peden</i> Presenting Author: Janos Szanyi Pacific Northwest National Laboratory
15:20	ENV-93 8	Bifunctional Catalysts for the Selective Catalytic Reduction of NO by Hydrocarbons <i>Neylon - Castagnola - Kropf - Marshall</i> Presenting Author: Christopher L. Marshall Argonne National Laboratory
15:40	ENV-38 9	The Diversity of Active Sites in Redox Zeolites - Ce-Promoted In-ZSM-5 - Catalysts for the Selective Reduction of NO by Methane <i>Sowade - Schmidt - Löffler - Schütze - Berndt - Grünert</i> Presenting Author: Wolfgang Grünert Ruhr University Bochum - Continental AG - Institute of Applied Chemistry Berlin Adlershof - OMG AG Hanau
16:00	ENV-75 10	Support Effects on Pt-Catalyzed Direct NO Decomposition <i>Wang - Spivey - Lamb</i> Presenting Author: Xianqin Wang North Carolina State University
16:20	ENV-8 11	Selective Catalytic Reduction of Nitric Oxide with Acetaldehyde over NaY Zeolite Catalyst in Lean Exhaust Feed <i>Schmieg - Cho - Oh</i> Presenting Author: Steven J Schmieg General Motors R&D Center
16:40	ENV-33 12	Kinetic behavior of a ceria-modified three-way Pt-Rh/Al ₂ O ₃ -CeO ₂ catalyst in the CO+NO and CO+N ₂ O reactions <i>Pascal - Ginette - Lucien</i> Presenting Author: GRANGER Pascal Laboratoire de Catalyse de Lille

Catalysts For Air Pollution Abatement I	Catalysts For Air Pollution Abatement III	Catalysts For Air Pollution Abatement IV	Catalysts For Clean Energy And Clean Fuel Technologies I
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 Grand Coral 1
 Environmental (3)

Scientific Program

Catalysts For Air Pollution Abatement III

Time	Ref. Code	Title
8:30	ENV-6 55	A model catalyst study of the CO+NO reaction on Pd (111) at elevated pressures using in situ vibrational spectroscopy <i>Ozensoy - Hess - Goodman</i> Presenting Author: Emrah Ozensoy Texas A&M University
8:50	ENV-124 56	Selective Reduction of NO _x in Oxygen Rich Environment with Plasma-Assisted Catalysis: Catalyst Development and Mechanistic Studies <i>Peden - Barlow - Hoard - Kim - Kwak - Lee - Balmer-Millar - Panov - Szanyi - Tonkyn</i> Presenting Author: Charles H. F. Peden Pacific Northwest National Laboratory - Ford Motor Company - Keimyung University
9:10	ENV-7 57	In Situ Monitoring of the NO ₂ Storage and Reduction in Barium Oxide Supported on Magnesium Oxide using Raman Spectroscopy <i>Hess - Lunsford</i> Presenting Author: Christian Hess Department of Chemistry, Texas A&M University, College Station, TX 77843
9:30	ENV-42 58	Catalytic Engineering Studies of NO _x Storage and Reduction <i>Muncrief - Coym - Harold</i> Presenting Author: Michael Harold University of Houston
9:50	ENV-52 59	Influence of Transient Ammonia Supply on Selective Catalytic Reduction of NO _x over zeolite H-ZSM-5 <i>Wallin - Karlsson - Skoglundh - Palmqvist</i> Presenting Author: Mikaela Wallin Competence Centre for Catalysis, Chalmers University of Technology, Göteborg - Volvo Technology Corporation, Göteborg,
10:10	ENV-88 60	Zirconia-pillared clays based catalysts of NO _x selective reduction by hydrocarbons: synthesis, characterization and performance <i>Sadykov - Kuznetsova - Doronin - Kochubei - Fenelonov - Moroz - Zaikovskii - Rozovskii - Matyshak - Ross</i> Presenting Author: Vladislav A Sadykov Boreskov Inst. of Catalysis SB RAS, Novosibirsk, - Topchiev Inst. of Petrochemical Synthesis RAS, Moscow, - Semenov Inst. of Chemical Physics RAS, Moscow, - The Limerick University, Limerick

Catalysts For Air Pollution Abatement I	Catalysts For Air Pollution Abatement II	Catalysts For Air Pollution Abatement IV	Catalysts For Clean Energy And Clean Fuel Technologies I
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Grand Coral 1
Environmental (4)

Scientific Program

Catalysts For Air Pollution Abatement IV

Time	Ref. Code	Title
11:00	ENV-98 61	FT-IR and reactivity study of NO _x adsorption over Pt-Ba/Al ₂ O ₃ <i>Nova - Castoldi - Prinetto - Lietti - Tronconi - Forzatti - Ghiotti</i> Presenting Author: Isabella Nova Politecnico di Milano- Dip. di Chimica, Materiali e Ingegneria Chimica - Università di Torino- Dip. di Chimica IFM
11:20	ENV-27 62	Platinum oxidation and sulphur deactivation in NO _x storage catalysts <i>Amberntsson - Olsson - Grant - Dawody - Skoglundh - Fridell</i> Presenting Author: Erik Fridell Competence Center for Catalysis, Chalmers University of Technology
11:40	ENV-60 63	Palladium-Copper Sol Gel Catalysts for Selective Hydrogenation of 1,2-Dichloroethane into Ethylene: Temperature Dependence <i>Arsenault - Gonzalez</i> Presenting Author: Sarah Arsenault Tulane University
12:00	ENV-81 64	Dual Site Participation in Hydrogen-Assisted 1,2-Dichloroethane Dechlorination Catalyzed by Pt-Cu/SiO ₂ Catalysts <i>Borovkov - Luebke - Kovalchuk - d'Itri</i> Presenting Author: Julie L. d'Itri Zelinsky Institute of Organic Chemistry, Moscow - Department of Chemical Engineering, University of Pittsburgh, Pittsburgh
12:20	ENV-26 65	Low temperature destruction of chlorinated hydrocarbons over lanthanide-oxide based catalysts <i>Van der Avert - Weckhuysen</i> Presenting Author: Pieter Van der Avert Centrum voor Oppervlaktechemie en Katalyse, Departement Interfasechemie, K.U.Leuven, Kasteelpark 23, 3001 Leuven - Departement Anorganische Chemie en Katalyse, Debye Instituut, Universiteit Utrecht, Sorbonnelaan 16, 3584 CA Utrecht
12:40	ENV-17 66	Combination of Ba/Y Zeolite and Ag/g-Alumina Catalysts for Reduction Activity Over a Broad Temperature Range Using Plasma-Facilitated Lean NO _x Catalysis <i>Aardahl - Hoard - Park - Peden</i> Presenting Author: Christopher L. Aardahl Pacific Northwest National Laboratory - Ford Research Laboratory - Caterpillar Inc.

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Thursday
 Grand Coral 1
 Environmental (5)

Scientific Program

Catalysts For Clean Energy And Clean Fuel Technologies I

Time	Ref. Code	Title
8:30	KEY-11 189	Keynote: Moving Towards The Hydrogen Economy: Internal Combustion Engine To The Fuel Cell <i>Farrauto</i> Presenting Author: Robert J. Farrauto Engelhard Corporation
9:10	ENV-114 190	The Nature of the Active Sites for Propane Oxidation over Sulfated Pt/Al ₂ O ₃ . <i>Corro - García Fierro - Vazquez</i> Presenting Author: Grisel Corro Benemerita Universidad Autonoma de Puebla -
9:30	ENV-15 191	Synergistically Combined Effects of Support and Additive on Oxidation Resistance of Pt Catalyst in Catalytic Combustion. <i>Hattori - Yazawa - Nonoyama - Yoshida</i> Presenting Author: Tadashi Hattori Nagoya University -
9:50	ENV-46 192	Complete Methane Oxidation on Palladium Model Catalysts <i>Zhu - Han - Monteiro - Zemlyanov - Ribeiro</i> Presenting Author: Guanghui Zhu Department of Chemical Engineering, Worcester Polytechnic Institute - Hyperion Catalysis International Inc -
10:10	ENV-47 193	Deep oxidation of lower alkanes on Pt-based catalysts: Drastic turnover rate enhancement using acid zeolite supports <i>Apesteguía - Garetto - Rincón</i> Presenting Author: Carlos R. Apesteguía Instituto de Investigaciones en Catálisis y Petroquímica (INCAPE) -

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 Grand Coral 1
 Environmental (6)

Scientific Program

Catalysts For Clean Energy And Clean Fuel Technologies II

Time	Ref. Code	Title
11:00	ENV-136 194	Water-gas shift activity of low-content gold/cerium oxide catalysts <i>Fu - Saltsburg - Flytzani-Stephanopoulos</i> Presenting Author: Maria Flytzani-Stephanopoulos Tufts University
11:20	ENV-106 195	PremAir Catalyst System: Accelerated Aging Method <i>Hoke - Heck - Buelow</i> Presenting Author: Jeffrey B. Hoke Engelhard Corporation
11:40	ENV-122 196	Application of methane partial oxidation to low NOX combustors for GT <i>Tavazzi - Beretta - Groppi - Forzatti</i> Presenting Author: Alessandra Beretta Politecnico di Milano
12:00	ENV-96 197	Effect Of Impregnated And Doping Ceria In Catalysts Of Pt/Al ₂ O ₃ For VOCS Combustion <i>Pérez-Pastenes - Vázquez-Zavala - Viveros-García</i> Presenting Author: Hugo Pérez-Pastenes Universidad Autónoma Metropolitana - Iztapalapa
12:20	ENV-29 198	Analysis of the Induction Time in the Kinetics of Formation of Reduced Crystalline Phases of Ceria-Zirconia Catalyst during Interaction with CO and relation with Oxygen Storage Capacity (OSC) <i>Arena - Centi - Deganello - Liotta - Macaluso - Pantaleo</i> Presenting Author: Giuseppe E Arena Dept. of Industrial Chemistry and Eng. of Materials, Univ. Messina - Dept. of Inorg. Chemistry, Univ. Palermo - ISMN-CNR, Palermo
12:40	ENV-127 199	Catalytic properties of Pt supported on ZrO ₂ -TiO ₂ oxides for the reforming of methane with carbon dioxide. <i>Gómez-Cortés - Pérez-Hernández - Diaz</i> Presenting Author: Antonio Gómez-Cortés Instituto de Física - ININ

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 Grand Coral 1
 Environmental (7)

Scientific Program

Catalysts For Clean Energy And Clean Fuel Technologies III

Time	Ref. Code	Title
15:00	ENV-118 200	Low -Temperature Catalysts for Hydrogen Production Using a Membrane Reactor <i>Irusta - Munera - Lombardo - Cornaglia</i> Presenting Author: Laura M Cornaglia Instituto de Investigaciones en Catálisis y Petroquímica (FIQ, UNL-CONICET) -
15:20	ENV-72 201	Metal Oxide Nanocomposites for Automotive Emission Reduction <i>Sweeney - Sangar - Pitukmanorom - Stoykovich - Ying</i> Presenting Author: Jason T. Sweeney Massachusetts Institute of Technology
15:40	ENV-59 202	Oxidative Desulfurization <i>Brandvold - Kocal - Boldingh</i> Presenting Author: Timothy A. Brandvold UOP LLC
16:00	ENV-67 203	Vapor-Phase Oxidesulfurization (ODS) of Organosulfur Compounds over Supported Metal Oxide Catalysts <i>Choi - Wachs</i> Presenting Author: Sukwon Choi Lehigh University
16:20	ENV-125 204	Selective Sulfur Removal from Fuels Using Ionic Liquids at Room Temperature <i>Zhang - Zhang</i> Presenting Author: Z. Conrad Zhang Akzo Nobel Chemicals, Inc.
16:40	ENV-110 205	Stability of Mo/Al ₂ O ₃ catalysts in Diesel soot combustion <i>Leocadio - Braun - Schmal</i> Presenting Author: Silvana Braun NUCAT-PEQ-COPPE, Universidade Federal do Rio de Janeiro - DQ, Pontificia Universidade Católica do Rio de Janeiro

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Friday
 Grand Coral 1
 Environmental (8)

Scientific Program

Green Chemistry And Engineering Through Catalysis I

Time	Ref. Code	Title
8:30	KEY-28 264	Keynote: The Use of Heterogeneous Acid Catalysts in the Synthesis of Fragrances and Pharmaceuticals <i>Hoelderich</i> Presenting Author: Wolfgang Hoelderich Univ. Of Technology RWTH-Aachen
9:10	ENV-71 265	Effect of Solvents on the Liquid Phase Epoxidation of 1-Hexene with Titanium Silicalite-1 <i>Huang - Kung - Broadbelt - Snurr</i> Presenting Author: Chen E Huang Northwestern University, Evanston, Illinois
9:30	ENV-92 266	Alkylation of Isobutane with 2-butene with Ionic Liquid as a "Clean" Catalyst <i>Yoo - Namboodiri - Smirniotis - Varma</i> Presenting Author: Panagiotis G Smirniotis University of Cincinnati - U.S. EPA
9:50	ENV-4 267	Isopropanol Dehydrogenation over Cu/C and Pt/C Catalysts <i>Vannice - Rioux</i> Presenting Author: M. Albert Vannice Pennsylvania State University
10:10	ENV-18 268	Effect of the Support on the Basic and Catalytic Properties of KF. <i>Genuit - Clacens - Delmotte - Garcia-Ruiz - Bergeret - Lopez - Figueras</i> Presenting Author: François Figueras Institut de Recherches sur la Catalyse du CNRS, 2 avenue A. Einstein, 69626 - Laboratoire de Matériaux Minéraux 3, rue Alfred Werner F-68093 Mulhouse

Catalysts For Air Pollution Abatement I	Catalysts For Air Pollution Abatement II	Catalysts For Air Pollution Abatement III	Catalysts For Air Pollution Abatement IV
Catalysts For Clean Energy And Clean Fuel Technologies I	Catalysts For Clean Energy And Clean Fuel Technologies II	Catalysts For Clean Energy And Clean Fuel Technologies III	Green Chemistry And Engineering Through Catalysis II



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Friday
 Grand Coral 1
 Environmental (9)

Scientific Program

Green Chemistry And Engineering Through Catalysis II

Time	Ref. Code	Title
11:00	ENV-45 269	Catalytic wet peroxide oxidation of phenol over iron containing pillared clays <i>Guélou - Barrault - Fournier - Tatibouët</i> Presenting Author: Erwan Guélou Université de Poitiers - CNRS - Université Pierre et Marie Curie (Paris)
11:20	ENV-95 270	Direct Oxidation of Benzene to Phenol in Air over a Zeolite-Based Catalyst <i>Castagnola - Marshall - Kropf</i> Presenting Author: Norma B. Castagnola Argonne National Laboratory
11:40	ENV-50 271	Heterogeneously Catalysed Hydrogenations Reactions in Ionic Liquids <i>Anderson - Goodrich - Hardacre - Rooney</i> Presenting Author: Kris Anderson Queen's University of Belfast
12:00	ENV-51 272	Hydrogenation of Glutamic Acid to Value Added Products <i>Holladay - Werpy</i> Presenting Author: Johnathan E Holladay Pacific Northwest National Laboratory
12:20	ENV-63 273	Selective aromatics oxidation by iron-containing ZSM-5 zeolites: on the nature of the active sites <i>Hensen - de Rooij - Zhu - van Santen</i> Presenting Author: Emiel J.M. Hensen Schuit Institute of Catalysis
12:40	ENV-24 274	Kinetic Studies of Carbonylation of Methanol to Dimethyl Carbonate over Copper Zeolite Catalysts <i>Anderson - Root</i> Presenting Author: Steven A Anderson University of Wisconsin-Madison

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Thursday
Coral Kingdom
Fuel Cells (1)
Fuel Cells I

Scientific Program

Time	Ref. Code	Title
11:00	KEY-25 240	Keynote: Catalysis: Making the Fuel Cell Era Possible <i>Vanderspurt - Bellows - Jarvi</i> Presenting Author: Thomas H. Vanderspurt United Technologies Research Center - HydrogenSource LLC -
11:20	FCE-20 241	Pt L23 XANES Data Utilized as an in situ Tool for Determining H and O Adsorption Sites, and their Change with Coverage, on Pt/C Electrodes in an Electrochemical Cell and Oxygen Fuel Cell <i>Ramaker - Teliska - O'Grady</i> Presenting Author: David E. Ramaker George Washington University - Naval Research Laboratory -
11:40	FCE-23 242	Platinum Cluster Size Optimization via Chemical Synthesis and Laser Ablation Mass Spectrometry: Development of Enhanced Fuel Cell Catalysts <i>Coker - Abraham - Jarek - Thornberg - L. Mowery-Evans - Miller</i> Presenting Author: Eric N Coker Sandia National Laboratories -
12:00	FCE-29 243	Improvement of Direct Methanol Fuel Cell Performance Using Novel PtRu Nanowire Network as an Anode Material <i>Choi - Lim - Woo</i> Presenting Author: Seong Ihl Woo Korea Advanced Institute Science and Technology -
12:20	FCE-46 244	Modeling High Temperature Electrocatalysts for Alcohol-Based Fuel Cell <i>Rottmayer - Reitz</i> Presenting Author: M. Rottmayer Air Force Research Laboratory -

Fuel Cells II			
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Thursday
Coral Kingdom
Fuel Cells (2)
Fuel Cells II

Scientific Program

Time	Ref. Code	Title
15:00	KEY-26 245	Keynote: Cost Optimization of PEM Fuel Cells Using Predictive Kinetic Models for Electrocatalytic Reactions <i>Sriramulu - Weber</i> Presenting Author: Robert S Weber TIAX LLC -
15:20	FCE-7 246	Modeling High Fuel Utilization in Direct Oxidation SOFCs <i>Costa-Nunes - Vohs - Gorte</i> Presenting Author: Olga Costa-Nunes University of Pennsylvania -
15:40	FCE-21 247	Catalytic Acitivity and Conductivity of Ceria for SOFC Anode Applications <i>Weiss - Ying</i> Presenting Author: Steven E Weiss Massachusetts Institute of Technology -
16:00	FCE-9 248	Characterization of the Catalytic Properties of Solid-Oxide Fuel Cell Anodes by Impedance Spectroscopy <i>McIntosh - Vohs - Gorte</i> Presenting Author: Steven McIntosh University of Pennsylvania -
16:20	FCE-42 249	Transient Study of the Direct Oxidation of Natural gas in LaSrMnO ₃ /YSZ/Cu based catalyst in Solid Oxide Fuel Cell. <i>Khatri - Chuang - Stevens, Jr. - Singh</i> Presenting Author: Rajesh A. Khatri The University of Akron -

Fuel Cells I			
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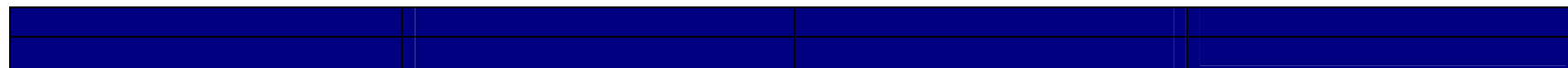


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Wednesday
Coral Sea
Fine Chemicals (1)
Fine Chemicals

Scientific Program

Time	Ref. Code	Title
15:00	PRE-5 184	Characterising Heterogeneous Chiral Catalysts: Metal/Support Effects. <i>Jackson - Allan - Webb - Young</i> Presenting Author: S David Jackson University of Glasgow -
15:20	COS-14 185	Hydroxymethylation of Guaiacol with Aqueous Solutions of Formaldehyde: Reactivity in Homogeneous Medium, and Advantages of Heterogeneous Catalysis <i>Cavani - Dal Pozzo - Maselli - Mezzogori - Zaccarelli</i> Presenting Author: Luca Dal Pozzo Dipartimento di Chimica Industriale e dei Materiali, Univ. of Bologna -
15:40	KEY-24 186	Keynote: Chirality - A Muse for Catalysis? <i>Raval</i> Presenting Author: Rasmita Raval University of Liverpool
16:20	COS-38 187	Aldol Condensation of Citral and Acetone on Mg,Al-mixed oxides - Study of reaction conditions and catalyst reutilization <i>Bastiani - Henriques - Monteiro</i> Presenting Author: José Luiz F. Monteiro NUCAT-COPPE/UFRJ - IQ/UERJ -
16:40	ENV-99 188	Heterogeneous Enantioselective Hydrogenation of Ethyl Pyruvate on Chirally Modified Nanocatalyst 5.0 wt.% Pt/g;-Al ₂ O ₃ <i>Li - Li</i> Presenting Author: Xiaohong Li State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics





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Tuesday
 Grand Coral 3

Scientific Program

Fundamental Studies in Catalysis (1)
Fundamental Studies In Catalysis I

Time	Ref. Code	Title
15:00	ABC-27 82	Kinetic Modeling of Light Paraffin Aromatization on ZSM-5 based Catalysts <i>Bhan - Katare - Joshi - Venkatasubramanian - Caruthers - Thomson - Delgass</i> Presenting Author: Aditya Bhan Purdue University -
15:20	IND-15 83	A Proposed Explanation for the Reported Inverse Kinetic Isotope Effect in Silver Based Ethylene Epoxidation <i>Lockemeyer - Kobe - Anderson</i> Presenting Author: John R Lockemeyer Shell Chemicals, L.P., Westhollow Technology Center - University of Wisconsin, Dept. of Chemical Engineering -
15:40	COS-37 84	Aromatization of n-butane over supported Mo2C catalysts <i>Solymosi - Szédhenyi - Németh</i> Presenting: Frigyes Solymosi Reaction Kinetics Research Group of the Hungarian Academy of Sciences
16:00	PRE-19 85	FT-Ir Studies Of Internal, External And Extraframework Protonic And Cationic Sites Of H- And Co-Exchanged FER, MFI And MOR Type Zeolite Materials <i>Bevilacqua - Montanari - Resini - Gutiérrez-Alejandre - Ramírez - Busca</i> Presenting Author: Guido Busca DICheP, Università di Genova - UNICAT, Depto. de Ingeniería Química, Facultad de Química, UNAM -
16:20	GEN-27 86	Genesis Of Bronsted Acid Sites During Catalytic Reactions of Alcohols on Small Tungsten Oxide Domains <i>Macht - Min - Baertsch - Soled - Iglesia</i> Presenting Author: Enrique Iglesia University of California, Berkeley - 1ExxonMobil Research and Engineering Co. -
16:40	NAN-10 87	Kinetic Evidence for a Common Adsorbed Reactive Intermediate for Ethylbenzene and Indenic Compounds in n-propylbenzene Conversion over pre-Coked Silica Supported Platinum Catalysts <i>Toppi - Thomas - Sayag - Brodzki - Le Peltier - Travers - Djéga-Mariadassou</i> Presenting Author: Cyril Thomas Laboratoire de Réactivité de Surface, UMR CNRS 7609, case 178, Université Pierre et Marie Curie, 4 Place Jussieu, 75252 Paris, France - Institut Français du Pétrole, 1 et 4 Avenue de Bois-Préau, 92852 Rueil-Malmaison, France -

Fundamental Studies in Catalysis II

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Thursday
Coral Sea

Scientific Program

Fundamental Studies in Catalysis (2)

Fundamental Studies In Catalysis II

Time	Ref. Code	Title
15:00	KEY-32 259	Keynote: Radiation induced catalytic activity on metal surfaces <i>Yacaman</i> Presenting Author: Miguel Yacaman TU München
15:40	PRE-46 260	Novel Molecular Imprinting Metal-complex Catalysts at Oxide Surfaces <i>Tada - Sasaki - Iwasawa</i> Presenting Author: Mizuki Tada Department of Chemistry, Graduate School of Science, The University of Tokyo -
16:00	PRE-20 261	New Rh-Ge/Al ₂ O ₃ catalysts offering novel catalytic behaviors <i>Pirault-Roy - Boghian-Fifere - Guérin - Teschner - Paál</i> Presenting Author: Laurence Pirault-Roy Laboratoire de Catalyse en Chimie Organique, Université de Poitiers - Institute of Isotope and Surface Chemistry, Hungarian Academy of Sciences -
16:20	PRE-71 262	Use of Carbon Nanofibers as Novel Support Material: Phenol Hydrogenation over Palladium <i>Keane</i> Presenting Author: Mark A Keane Department of Chemical and Materials Engineering, University of Kentucky - Syntex, Billingham, Cleveland
16:40	PRE-89 263	Alumina Nanofibers Obtained by pH-swing Method <i>Lopez-Salinas - Muñoz - Vazquez - Hernández-Beltrán</i> Presenting Author: Esteban Lopez-Salinas Instituto Mexicano del Petroleo -

Fundamental Studies in Catalysis I



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Tuesday
Coral Kingdom
Hydrotreating (1)

Scientific Program

Catalysts For HDS Of Liquid Fuels

Time	Ref. Code	Title
15:00	KEY-9 115	Keynote: Desulfurization of Gasoline, Distillate, and Heavy Feeds to Meet the Environmental Needs of the 21st Century <i>Marshall</i> Presenting Author: Christopher L Marshall Chemical Technology Division, Argonne National Laboratory
15:40	HHC-10 116	HRTEM, Synchrotron, and Simulation Techniques applied to Activity and Selectivity Correlation in Hydrodesulfurization Catalysts <i>Perez de la Rosa - Berhault - Texier - Yacaman - Mehta - Fuentes Moyado - Chianelli</i> Presenting Author: Myriam Perez de la Rosa Laboratoire de Catalyse en Chimie Organique - CNRS - Université de Poitiers - Materials Research Technology Institute - University of Texas at El Paso - Department of Chemical Engineering - University of Texas at Austin - Stanford Synchrotron Radiation Laboratory - Centro de Ciencias de la Materia Condensada -
16:00	HHC-56 117	Property-Reactivity Correlation For HDS Of Middle Distillates <i>Ho</i> Presenting Author: Teh C. Ho ExxonMobil Research and Engineering Co., Annandale, NJ 08801
16:20	HHC-16 118	Obtention of ultra low sulfur diesel by selective elimination of nitrogen compounds from gasoils feeds as an HDS pretreatment <i>Macaud - Schulz - Favre-Réguillon - Lemaire - Vrinat</i> Presenting Author: Michel Vrinat Laboratoire de Catalyse et Synthèse Organique - Institut de Recherches sur la Catalyse -
16:40	HHC-32 119	Molybdenum Phosphide as Catalyst for the Thiophene Hydrodesulfurization <i>Leite -Zotin - da Silva</i> Presenting Author: Victor Teixeira da Silva Instituto Militar de Engenharia - CENPES - PETROBRAS

Nature Of Active Sites On Hydrotreating Catalysts	New Catalysts For Hydrotreating	Fundamentals Of Kinetics And Mechanisms	



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Wednesday
 Coral Kingdom
 Hydrotreating (2)

Scientific Program

Nature Of Active Sites On Hydrotreating Catalysts

Time	Ref. Code	Title
11:00	KEY-7 168	Keynote: Hydrogen in Hydrotreating and Other Catalysts Studied by Inelastic Neutron Scattering -Spillover Hydrogen and H-containing Compounds <i>Mitchell</i> Presenting Author: Philip C.H. Mitchell University of Reading UK
11:40	HHC-23 169	Atomic-scale Study of a Hydrodesulfurization Model Catalyst <i>Lauritsen - Clausen - Topsoe - Besenbacher</i> Presenting Author: Jeppe V. Lauritsen Department of Physics and Astronomy, University of Aarhus - Haldor Topsoe A/S -
12:00	HHC-53 170	Sulfur-tolerant Pd-Pt/Yb-USY Zeolite Catalysts for Ultra-deep Hydrodesulfurization and Aromatics Saturation <i>YOSHIMURA</i> Presenting Author: Yuji YOSHIMURA National Institute of Advanced Industrial Science and Technology
12:20	HHC-6 171	Nature Of Sulfur Tolerance And Hydrogenation Performance Of Ni-Based Catalyst In Aromatic Hydrogenation And Desulfurization Of Diesel: Pore Structure Effect <i>Sun - Turbeville</i> Presenting Author: Qi Sun Süd-Chemie Inc, P. O. Box 32370, Louisville, KY 40232, USA -
12:40	HHC-1 172	On the Role of Vacancies in HDS Catalysis by Transition Metal Sulfides. Radioisotopic Study <i>Kogan</i> Presenting Author: Victor M. Kogan N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences

Catalysts For HDS Of Liquid Fuels	New Catalysts For Hydrotreating	Fundamentals Of Kinetics And Mechanisms	



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 Hydrotreating (3)

Scientific Program

New Catalysts For Hydrotreating

Time	Ref. Code	Title
15:00	KEY-23 173	Keynote: Novel Catalysts for Advanced Hydroprocessing: Transition Metal Phosphides Presenting Author: <i>S. Ted Oyama</i> Virginia Tech
15:40	HHC-50 174	WS2 Catalysts promoted with Ni and supported over an aluminum-titanium mixed oxide for HDS of DBT Presenting Author: <i>Elizabeth González Gabaldón</i> Centro de Investigación en Materiales Avanzados, S.C. - Facultad de Ingeniería Química e Instituto de Investigaciones Metalúrgicas, Universidad Michoacana de San Nicolás de Hidalgo - LACCO-CNRS, Université de Poitiers - Centro de Ciencias de la Materia Condesada- Universidad Nacional Autónoma de México -
16:00	HHC-21 175	Supports of controlled architecture : application to hydrodesulfurization Presenting Author: <i>Michèle Breyse</i> Laboratoire de Réactivité de Surface, UMR 7609 CNRS, Université P. et M. Curie, 4, Place Jussieu, 75252 Paris - Laboratoire de Catalyse en Chimie Organique, UMR 6503 CNRS, Université de Poitiers, 40 avenue du Recteur Pineau 86022 Poitiers -
16:20	HHC-59 176	Sono-Synthesis and Characterization of Nanophase Hydrodesulfurization Catalysts Presenting Author: <i>Devinder Mahajan</i> Brookhaven National Laboratory - Argonne National Laboratory - Stony Brook University -
16:40	HHC-45 177	On the Evolution of Surface Sites of MoP/SiO ₂ Catalyst Under Hydrodesulfurization Reaction Conditions Presenting Author: <i>Zili Wu</i> State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics

Catalysts For HDS Of Liquid Fuels	Nature Of Active Sites On Hydrotreating Catalysts	Fundamentals Of Kinetics And Mechanisms	



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 Hydrotreating (4)

Scientific Program

Fundamentals Of Kinetics And Mechanisms

Time	Ref. Code	Title
8:30	HHC-26 234	Hydrodesulfurization Kinetics under Diffusion Limitation-Free Conditions on Planar Model HDS Catalysts <i>Borgna - Hensen - Van Veen - Niemantsverdriet</i> Presenting Author: Emiel J.M. Hensen Schuit Institute of Catalysis - Eindhoven University of Technology -
8:50	HHC-43 235	Kinetic Study of 4,6-Dimethyldibenzothiophene Hydrodesulfurization over Ni ₂ P Phosphide and NiMo, CoMo Sulfide Catalysts <i>Kim - Ma - Song - Oyama</i> Presenting Author: Chunshan Song Pennsylvania State University - Virginia Polytechnic Institute and State University -
9:10	PRE-116 236	Mobile Surface Species in characterization of sulfide catalysts: How to understand the role of fluorine promoter by combined in-situ and ex-situ characterization <i>Fischer - Harlé - Kasztelan - Maugé - Vallet</i> Presenting Author: Lars Fischer IFP, Catalysis and Separation Division - ISMRA, UMR CNRS 6506 -
9:30	HHC-31 237	In-situ X-ray Absorption Fine Structure Studies of the Structure of Ni ₂ P in USY Zeolite <i>Kawai - Sato - Chun - Asakura - Bando - Yoshimura - Kubota - Okamoto - Lee - Oyama</i> Presenting Author: Kiyotaka Asakura Catalysis Research Center, Hokkaido Univeristy - AIST - Shimane University - Virginia Tech -
9:50	HHC-54 238	Theoretical explanation of the small Co promoting effect in the 4-6-dimethyldibenzothiophene hydrodesulfurisation <i>Paul - Veilly - Payen - Bougeard - Le Gall - Hutschka</i> Presenting Author: Jean-François Paul Laboratoire de Catalyse de Lille USTL/CNRS - L.A.S.I.R., USTL/CNRS - Totalfinaelf, CERT -
10:10	HHC-19 239	Pt doped Hydrotreating catalysts for ultradeep hydrodesulfurization of diesel fuels. <i>Stephanie - Christophe - Robert - Michel</i> Presenting Author: GEANTET Christophe IRC 2 Av. A. Einstein, 69626 Villeurbanne Cedex -

Catalysts For HDS Of Liquid Fuels	Nature Of Active Sites On Hydrotreating Catalysts	New Catalysts For Hydrotreating	



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 General Catalysis (1)
 General Catalysis I

Scientific Program

Time	Ref. Code	Abstract
8:30	REP-23 206	Active centers in Mo-V-Te-Ox (ammo) oxidation catalysts <i>Graselli - Buttrey - DeSanto Jr. - Burrington - Lugmair - Volpe Jr.</i> Presenting Author: Robert K. Graselli Departments of Chemical Engineering and Materials Science, Center for Catalytic Science and Technology, University of Delaware, Newark, DE 19716 - Institute of Physical Chemistry, University of Munich, Butenandtstrasse 5-13, D-81377 Munich, Germany - The Lubrizol Corporation, 29400 Lakeland Boulevard, Wickliffe, OH 44092 - Symyx Technologies Inc., Central Expressway, Santa Clara, CA 95051 -
8:50	NAN-53 207	Simultaneous Catalytic Oxidation of CO and Isoprene on the Surface of Nanoparticle Iron Oxide - A Possible Synergy Effect? <i>Li - Rasouli - Hajaligol</i> Presenting Author: Ping Li Philip Morris USA -
9:10	GEN-20 208	Water reaction on stoichiometric and reduced surfaces of UO ₂ (111) single crystal. <i>Hicham - Sanjaya</i> Presenting Author: Idriss Hicham Department of Chemistry, University of Auckland, Private Bag 92019, Auckland, New Zealand -
9:30	REP-22 209	Investigation of the acid-base properties of an MCM-supported Ruthenium oxide catalyst by Inverse Gas Chromatography and Dynamic Gravimetric Vapour Sorption <i>Thielmann - Naderi - Burnett - Jervis</i> Presenting Author: Frank Thielmann Surface Measurement Systems Ltd. -
9:50	REP-17 210	High Pressure In Situ XAS Reactor for Catalysis <i>Modica - Bare - Mickelson</i> Presenting Author: Frank S. Modica UOP LLC -

General Catalysis II			



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Coral Island
General Catalysis (2)
General Catalysis II

Scientific Program

Time	Ref. Code	Abstract
11:00	NAN-47 P-244	Characterization and Reactivity of Gold Nanoparticles Supported on TiO ₂ Prepared by Deposition-Precipitation with NaOH and Urea <i>Rodolfo Zanella - Catherine Louis - Suzanne Giorgio - Claude R. Henry - Chae-Ho</i> Presenting Author: Catherine Louis Laboratoire de Catalyse et Spectrochimie, Université de Caen – ISMRA - Vanderbilt University, Department of Chemistry
11:20	MOX-48 212	Effect of Chlorine on the Catalytic Performance of Mo/Si:Ti Catalysts in the Oxidative Dehydrogenation of Ethane <i>Liu - Watson - Ozkan</i> Presenting Author: Umit S. Ozkan The Ohio State University
11:40	MOX-42 213	Alkane isomerization activity and EXAFS Characterization of a Highly Active and Stable Platinum modified Sulfated Zirconia Catalyst <i>Vijay - Wolf - Kropf - Miller</i> Presenting Author: Eduardo E. Wolf University of Notre Dame - Argonne National Lab. - B. P. Research Center
12:00	ENV-58 214	Novel Monolithic Supports for Catalytic Combustion <i>Ferrizz - Miller - Cesarano, III - Stuecker - Evans</i> Presenting Author: Robert M. Ferrizz Sandia National Laboratories
12:20	PRE-22 215	The Effect of Post Impregnation Treatment on the Dispersion of Pd over Al ₂ O ₃ <i>Wei - Luo - Lu - Xiao - Watts</i> Presenting Author: Dongguang Wei New Jersey Institute of Technology - Qusion Technologies, Inc. - Hydrocarbon Technology, Inc.
12:40	NAN-54 216	Synthesis and Catalytic Applications for Ga ₂ O ₃ Nanowires and 2-D Nanowebs <i>Graham - Quan - Davis - Sharma</i> Presenting Author: Uschi M. Graham Center for Applied Energy Research, University of Kentucky, 2540 Research Park Drive, Lexington, KY 40511

General Catalysis I



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 Coral Sea

Scientific Program

Homogeneous Catalysis and Single Site Polymerization (1)

Homogeneous Catalysis And Single Site Polymerization I

Time	Ref. Code	Title
8:30	HOP-6 120	Ultrahigh Molecular Weight Homopolypropylene Elastomers and Plastomers By "Dual-Side" Metallocene Catalysts <i>Rieger</i> Presenting Author: Bernhard Rieger Inorganic Chemistry 2, Department for Materials and Catalysis
8:50	HOP-4 121	The Palladium(II)-Catalyzed Polymerization of Functionalized Norbornenes. <i>Sen</i> Presenting Author: Ayusman Sen The Pennsylvania State University
9:10	HOP-2 122	Rational Design of Site-Isolated Solid Catalysts – Towards True Single-Site Supported Organometallic Catalysts <i>McKittrick - Jones</i> Presenting Author: Christopher W Jones Georgia Institute of Technology -
9:30	HOP-1 123	Ethylene Polymerization in the Gas Phase over (n-BuCp) ₂ ZrCl ₂ /MAO Supported on Porous Spherical Polymer Beads <i>Zhou - Wanke</i> Presenting Author: Sieghard E. Wanke University of Alberta -
9:50	HOP-7 124	Activation of Cp ₂ ZrCl ₂ using common alkylaluminum supported on clay materials for ethylene polymerization <i>Jeong - Hong - Cho - Woo</i> Presenting Author: Seong Ihl Woo Korea Advanced Institute of Science and Technology -
10:10	HOP-3 125	Investigation of Methyltrioxorhenium(VII) in Catalytic Trans-Epoxidation <i>Xue - Kozlov - Kung - Kung - Nguyen - Miller - Zhou - Santos - Kuehn</i> Presenting Author: Wen-Mei Xue Department of Chemical Engineering, Northwestern University, Evanston, IL 60208 - Department of Chemistry, Northwestern University, Evanston, IL 60208 - BP Research Center, Naperville, IL 60563 - Inorganic Chemistry Institute, Technical University of Munich, Munich -

Homogeneous Catalysis And Single Site Polymerization II			



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Scientific Program

Homogeneous Catalysis and Single Site Polymerization (2)

Homogeneous Catalysis And Single Site Polymerization II

Time	Ref. Code	Title
11:00	KEY-4 126	Keynote: Beyond Metallocene Polymerization Catalysts - Opening Up the Periodic Table <i>Patil - Stibrany - Zushma - Berluce - Schulz</i> Presenting Author: Abhimanyu O Patil ExxonMobil Research & Engineering Company -
11:40	COS-32 127	Gas-phase hydrogenation of 4-tert-butylphenol over Pt/SiO ₂ - Kinetics and stereoselectivity <i>Kalantar Neyestanaki - Hernández Carucci - Mäki-Arvela - Salmi - Murzin</i> Presenting Author: Dmitry Yu. Murzin Laboratory of Industrial Chemistry, Process Chemistry Group, Åbo Akademi -
12:00	COS-5 128	Novel Pd-Hydrotalcite Clays as Highly Selective Catalysts in Alkyne Semihydrogenation Under Mild Conditions <i>Mastalir - Kiraly - Veisz</i> Presenting Author: Agnes Mastalir Department of Organic Chemistry, University of Szeged, Hungary - Department of Colloid Chemistry, University of Szeged, Hungary -
12:20	IND-44 129	The Effects of Promoters and Catalyst Shape on the Hydrogenation of Fatty Esters and Maleic Anhydride with Activated Ni Tablets and Hollow Spheres <i>Ostgard - Berweiler - Röder - Möbus - Panster</i> Presenting Author: Daniel J. Ostgard Degussa AG, Catalysts and Initiators Division

Homogeneous Catalysis And Single Site Polymerization I			



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Monday
 Coral Garden
 Metals and Oxides (1)
Kinetic Modeling

Scientific Program

Time	Ref. Code	Title
11:00	KEY-14 23	Keynote: Computational Catalysis Towards the Elucidation and Design of Active Catalytic Environments <i>Neurock</i> Presenting Author: Matthew Neurock University of Virginia
11:40	MOX-3 24	Isotopic Transient Analysis of Base-Promoted Ruthenium Catalysts during Ammonia Synthesis <i>McClaine - Siporin - Davis</i> Presenting Author: Robert J. Davis University of Virginia -
12:00	MOX-31 25	Towards an Understanding of the Compensation Relation and Change of Order in Hydrogen with Support Properties for Pt Catalyzed Alkane Hydrogenolysis <i>Koningsberger - Oudenhuijzen - de Graaf - van Bokhoven - Ramaker</i> Presenting Author: Diék C. Koningsberger Utrecht University - George Washington University -
12:20	MOX-51 26	TAP Studies of Alkane Oxidation over Multi-Component Metal Oxide Catalysts Under Normal and Vacuum Conditions <i>Fushimi - Shekhtman - Gaffney - Han - Yablonsky - Gleaves</i> Presenting Author: Sergiy Oskarovich Shekhtman Dpt. of Chem. Eng., Washington University, Campus Box 1198, 1 Brookings Drv., St. Louis, MO 63130-4899 - Rohm & Haas Company, 727 Norristown Rd., PO Box 9045, Springhouse, PA 19477-0904 -
12:40	MOX-63 27	Selective Synthesis of Dimethoxym ethane via Direct Oxidation of Methanol or Dimethylether on Supported Keggin Structures <i>Liu - Iglesia</i> Presenting Author: Enrique Iglesia Dept. of Chemical Eng. University of California. Berkeley -

In-Situ Studies	Fundamental Studies In Metals And Oxides	Properties Of Metals And Oxides	



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 Metals and Oxides (2)
In-Situ Studies

Scientific Program

Time	Ref. Code	Title
15:00	KEY-15 28	Keynote: In situ and Operando Studies of Metal, Oxide and Sulfide Catalysts <i>Topsoe</i> Presenting Author: Henrik Topsoe Haldor Topsoe Inc.
15:40	MOX-7 29	UV-Visible Spectroscopy Studies of Dispersed Transition Metal Oxide Catalysts for Oxidative Dehydrogenation of Propane: Quantification of Reduced Centers and Kinetic Parameters <i>Argyle - Chen - Resini - Krebs - Bell - Iglesia</i> Presenting Author: Alexis T. Bell University of California at Berkeley - Chevron-Texaco Research and Technology Company - University of Genoa - Technical University of Hamburg-Harburg -
16:00	MOX-36 30	In-situ DRIFTS investigation of Pt/CeO ₂ catalysts for low temperature WGS <i>Jacobs - Williams - Sparks - Davis</i> Presenting Author: Gary Jacobs Center for Applied Energy Research -
16:20	MOX-46 31	CO Oxidation Activity, EXAFS and IR Studies of the State of the Active Surface and Particle Size Effect on Pt Supported Catalysts. <i>Gracia - Wolf - Miller - Kropf</i> Presenting Author: Eduardo E. Wolf University of Notre Dame - B. P. Research Center - Argonne National Lab. -
16:40	MOX-54 32	Transient Infrared Study of the Mixed Reforming of CH ₄ over Supported Rh Catalysts <i>Stevens, Jr. - Chuang</i> Presenting Author: Robert W. Stevens, Jr. The University of Akron -

Kinetic Modeling	Fundamental Studies In Metals And Oxides	Properties Of Metals And Oxides	



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Wednesday
 Coral Garden
 Metals and Oxides (3)

Scientific Program

Fundamental Studies In Metals And Oxides

Time	Ref. Code	Title
11:00	KEY-10 157	Keynote: The Methods and Accomplishments of Research Using Model Catalyst Systems <i>Somorjai</i> Presenting Author: Gabor A. Somorjai University of California
11:40	MOX-28 158	Novel Mg/M(III) Hydrotalcites Containing Gallium: Structure and Properties <i>Chiang - Iretksii - Shinall - White</i> Presenting Author: Mark G. White Air Products and Chemicals, Inc - Lake Superior State University - Georgia Institute of Technology -
12:00	MOX-30 159	Structure and Reactivity of Anatase and Vanadia-Covered Anatase Surfaces <i>Altman - Gao - Baird - Liang - Sasahara - Onishi</i> Presenting Author: Eric I. Altman Department of Chemical Engineering, Yale University - Department of Physics, University of Warwick - Motorola Labs - Kanagawa Academy of Science and Technology -
12:20	MOX-33 160	The Chemical Role of Rhenium in the Epoxidation of Ethylene and Butadiene <i>Kloosterman - Delgass</i> Presenting Author: Jeffrey W. Kloosterman Purdue University -
12:40	MOX-59 161	Potential Role of Hydroxyl in CO Oxidation over Au/g-Al ₂ O ₃ <i>Costello - Yang - Wang - Marks - Kung - Kung</i> Presenting Author: Colleen K Costello Dept of Chemical Engineering, Northwestern University - Dept of Materials Science, Northwestern University -

Kinetic Modeling	In-Situ Studies	Properties Of Metals And Oxides	
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 Metals and Oxides (4)
 Properties Of Metals And Oxides

Scientific Program

Time	Ref. Code	Title
15:00	MOX-11 162	The Effect of Metal Oxide Dopants on the Catalytic Properties of Ceria <i>Zhao - Gorte</i> Presenting Author: Sufang Zhao University of Pennsylvania, Department of Chemical and Biomolecular Engineering -
15:20	MOX-15 163	Reducibility of Cerium-Based Mixed-Metal Oxide Supports <i>Mullins - Schwartz - Saengkerdsab - Dai - Overbury</i> Presenting Author: David R Mullins Oak Ridge National Laboratory - University of Delaware -
15:40	MOX-17 164	Correlations between Oxygen Permeation and Catalytic Properties for Hydrocarbon Oxidation of Bismuth-based Oxide Ion Conductors <i>Löfberg - Benaissa - Bordes-Richard - Capoen - Steil - Pirovano - Vannier - Mairesse</i> Presenting Author: Axel Löfberg Laboratoire de Catalyse de Lille, USTL-ENSCL - Laboratoire de Cristallographie et Physicochimie du Solide, ENSCL -
16:00	MOX-45 165	Catalytic oxidation of chlorinated hydrocarbons over V ₂ O ₅ /TiO ₂ catalysts <i>Janine - Michael</i> Presenting Author: Lichtenberger Janine University of South Carolina -
16:20	MOX-64 166	The Nature of Highly Unusual Tungsten Oxo Species in Tungstated Zirconium Oxide Nanoparticle-Based Mesoporous Material <i>Knowles - Jehng - Ying - Wachs - Wong</i> Presenting Author: Michael S. Wong Department of Chemical Engineering, Rice University - Lehigh University - Massachusetts Institute of Technology -
16:40	MOX-39 167	Raman Spectroscopic Study of Dioxygen Species Adsorbed on the Surface of Polycrystalline CeO ₂ <i>Pushkarev - Kovalchuk - d'Itri</i> Presenting Author: Vladimir V. Pushkarev Department of Chemical Engineering, University of Pittsburgh, Pittsburgh -

Kinetic Modeling	In-Situ Studies	Fundamental Studies In Metals And Oxides	



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Monday
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 Nanostructures (1)

Scientific Program

Catalysis By Metallic Nanoparticles I

Time	Ref. Code	Title
11:00	NAN-22 33	Dendrimer Templates for Compositional Control of Bimetallic Catalysts <i>Lang - May - Iversen - Chandler - Deutsch - Sotto - Amiridis</i> Presenting Author: Bert D Chandler Trinity University - University of South Carolina -
11:20	NAN-39 34	Synthesis of 2,6-Dimethylnaphthalene from Pentenes and Toluene <i>Chen - Santilli - Schinski - O'Rear - Harris</i> Presenting Author: Cong-Yan Chen ChevronTexaco Energy Research and Technology Co. -
11:40	NAN-49 35	High Surface Area Model Catalysts: Pt and Au uniform nanoparticles encapsulated in mesoporous silicate materials <i>Rioux - Konya - Putes - Somorjai</i> Presenting Author: Robert M Rioux Department of Chemistry, University of California, Berkeley Berkeley, CA 94720 - Materials Science Division, Lawrence Berkeley National Laboratory, Berkeley, CA 94720 -
12:00	NAN-12 36	Novel Catalytic Properties of Nanostuctures: Monolayer Metal Thin Films <i>Khan - Chen</i> Presenting Author: Neetha A. Khan University of Delaware -
12:20	NAN-25 37	Hexarhodium Clusters on High-Area Lanthana: Characterizing of the Working Ethylene Hydrogenation Catalyst by EXAFS and IR Spectroscopies <i>Bhirud - Argo - Goellner - Gates</i> Presenting Author: Vinesh A Bhirud University of California, Davis -
12:40	NAN-51 38	Nanofabrication of Model Catalysts on Transmission Electron Microscopy (TEM) Membranes <i>Grant - Helveg - Österlund - Hu - Hansen - Clausen - Kasemo</i> Presenting Author: Ann W Grant Department of Applied Physics, Chalmers University of Technology, Göteborg, Sweden - Haldor Topsoe A/S, Lyngby, Denmark - Swedish Defense Research Agency, Umeå, Sweden -

Mesoporous And Nanocomposite Catalysts I	Catalysis By Metallic Nanoparticles II	Mesoporous And Nanocomposite Catalysts II	
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Monday
 Coral Kingdom
 Nanostructures (2)

Scientific Program

Mesoporous And Nanocomposite Catalysts I

Time	Ref. Code	Title
15:00	NAN-14 39	Catalytic growth of single-walled carbon nanotubes in MCM-41 templates <i>Ciuparu - Lim - Chen - Dobek - Harding - Haller - Pfeifferle</i> Presenting Author: Dragos Ciuparu Yale University - University of New Haven -
15:20	NAN-26 40	Macroporous Mo-V-Te-Nb Oxide Catalysts for Selective Propane Oxidation to Acrylic Acid <i>Al-Saeedi - Guliants</i> Presenting Author: Jamal N. Al-Saeedi University of Cincinnati -
15:40	NAN-29 41	Synthesis and Characterization of Co-MCM-41 for Producing Single Walled Carbon Nanotubes <i>Lim - Ciuparu - Dobek - Chen - Harding - Pfeifferle - Haller</i> Presenting Author: Sangyun Lim Yale University - University of New Haven -
16:00	NAN-13 42	Template Synthesis and Catalysis of Metal Nanowires and Nanoparticles in Mesoporous Silica Supports <i>Fukuoka - Sakamoto - Araki - Inagaki - Sugimoto - Ichikawa</i> Presenting Author: Atsushi Fukuoka Hokkaido University - Toyota Central R&D Labs, Inc. -
16:20	NAN-42 43	A Novel Route to Nanostructured Carbides on Carbon Materials: Carbothermal Hydrogen Reduction <i>Liang - Ying - Wei - Li</i> Presenting Author: Changhai Liang Dalian Institute of Chemical Physics -

Catalysis By Metallic Nanoparticles I	Catalysis By Metallic Nanoparticles II	Mesoporous And Nanocomposite Catalysts II	



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Tuesday
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 Nanostructures (3)

Scientific Program

Catalysis By Metallic Nanoparticles II

Time	Ref. Code	Title
8:30	KEY-19 104	Keynote: Nanotechnology for Heterogeneous Catalysis: Active Sites and Beyond <i>Kung</i> Presenting Author: Harold H. Kung Northwestern University
9:10	NAN-7 105	Activation of Gold Nanoparticles on Titania: Adsorption and Reaction of SO ₂ on Au/TiO ₂ (110) <i>Liu - Rodriguez - Jirsak - Hrbek - Chang - Dvorak - Maiti</i> Presenting Author: Gang Liu Department of Chemistry, Brookhaven National Laboratory, Upton, NY 11973 - Accelrys Inc., San Diego, CA 92121 -
9:30	NAN-8 106	Interactions of H ₂ , D ₂ and Acrolein with Surfaces of Supported Silver- and Gold Catalysts <i>Bron - Claus - Hohmeyer - Kondratenko</i> Presenting Author: Peter Claus Darmstadt University of Technology, Institute of Chemical Technology - Institute for Applied Chemistry Berlin -
9:50	NAN-21 107	CO Oxidation Catalyzed by Supported Gold: Influence of Oxidation States of Gold on the Catalytic Activity <i>Guzman - Gates</i> Presenting Author: Javier Guzman Department of Chemical Engineering and Materials Science, University of California, Davis, CA 95616 -
10:10	NAN-43 108	Aerosol Synthesis of Thermally Stable Mesoporous Catalysts <i>Bore - Pham - Datye</i> Presenting Author: Mangesh T Bore University of New Mexico -

Catalysis By Metallic Nanoparticles I	Mesoporous And Nanocomposite Catalysts I	Mesoporous And Nanocomposite Catalysts II	



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 Nanostructures (4)

Scientific Program

Mesoporous And Nanocomposite Catalysts II

Time	Ref. Code	Title
11:00	NAN-28 109	Selective Catalytic Reduction of Nitric Oxide with Propene over Alumina-based Nanocomposites <i>Pitukmanorom - Ying</i> Presenting Author: Pemakorn Pitukmanorom Massachusetts Institute of Technology -
11:20	NAN-32 110	Characterization of Mesoporous Molecular Sieves by Sorption <i>Conner</i> Presenting Author: William Curtis Conner University of Massachusetts
11:40	NAN-30 111	Synthesis and Stabilization of Zinc Oxide Nanocrystals for H ₂ S Absorption <i>Sweeney - Ying</i> Presenting Author: Jason T. Sweeney Massachusetts Institute of Technology -
12:00	NAN-15 112	Mesostructured mixed metal oxides for partial oxidation of lower alkanes <i>Gulians - Carreon - Pierelli - Cavani</i> Presenting Author: Vadim V. Gulians University of Cincinnati -
12:20	NAN-4 113	Catalysis by Titania Nanoparticles <i>Willey - Hu - Busca - Notari</i> Presenting Author: Bruno Notari Northeastern University - Universita di Genova -
12:40	NAN-31 114	Synthesis of Multiwalls Carbon Nanotubes on a nickel thin-film using a CVD process <i>Bazzana - Miraglia - Sacco</i> Presenting Author: Stephane Bazzana CAMMP, Northeastern University -

Catalysis By Metallic Nanoparticles I	Mesoporous And Nanocomposite Catalysts I	Mesoporous And Nanocomposite Catalysts II	



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June 1-6, 2003

Thursday
Coral Sea
Photocatalysis (1)
Fundamentals

Scientific Program

Time	Ref. Code	Title
8:30	KEY-1 250	Keynote: Photo-CREC Reactors for Photocatalytic conversion of Organic Pollutants in water and air <i>de Lasa - Salaices Arredondo - Ibrahim - Serrano</i> Presenting Author: Hugo Ignacio de Lasa University of Western Ontario - Instituto de Investigaciones Electrica, Cuernavaca - Universidad Autonoma de Zacatecas -
9:10	PHO-7 251	Electronic Characterization of Gel-derived TiO ₂ -SiO ₂ Mixed Oxide for Photocatalytic Water Decomposition over RuS ₂ /TiO ₂ -SiO ₂ <i>Nguyen - Lee - Yang</i> Presenting Author: Vinh T Nguyen School of Environmental & Chemical Engineering, Chonbuk National University -
9:30	PHO-15 252	A New Ruthenium (II) Photocatalyst Capable of Driving Four Electron Redox Reactions <i>Konduri - MacDonnell</i> Presenting Author: Rama Konduri The University of Texas at Arlington -
9:50	PHO-10 253	Elucidating the Mechanism of Pt/TiO ₂ Interactions in the Gas Phase Photo-catalytic Oxidation of Organic Materials <i>Uner - Ozen - Uner</i> Presenting Author: Deniz Uner Chemical Engineering, Middle East Technical University, Ankara 06531 -
10:10	PHO-4 254	Photocatalytic performance of titania supported metal for CO ₂ photoreduction using UV-A(365nm) illumination <i>Wu - Tseng - Chou</i> Presenting Author: Jeffrey C. S. Wu Department of Chemical Engineering, National Taiwan University -

Synthesis And Mechanistic Studies			
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Scientific Program

Photocatalysis (2)

Synthesis And Mechanistic Studies

Time	Ref. Code	Title
11:00	KEY-27 255	Keynote: Photocatalytic Degradation of Organic Compounds in Aqueous Media <i>Jenks - Li - Oh - Tetzlaff</i> Presenting Author: William S Jenks Iowa State University -
11:40	PHO-11 256	In Situ Infrared study of Photo-Catalytic Synthesis of Oxygenates and Hydrocarbons from CO ₂ /H ₂ O over Cu-Based Catalysts <i>Toochinda - Donnelley - Chuang</i> Presenting Author: Pisanu Toochinda The University of Akron -
12:00	PHO-5 257	Photocatalytic Inactivation of MS2 Bacteriophage and E. coli. <i>Stuart - Salaices Arredondo - Valvano - de Lasa</i> Presenting Author: Hugo Ignacio de Lasa University of Western Ontario -
12:20	PHO-8 258	Kinetics of the Photocatalytic Degradation of Paraquat <i>Leyva - Moctezuma - Hernández - Zamarripa</i> Presenting Author: Edgar Moctezuma University of San Luis Potosi -

Fundamentals			
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Tuesday
 Grand Coral 3

Scientific Program

Preparation and Characterization (1)
Catalysts Preparation By Sol-Gel Methods

Time	Ref. Code	Title
8:30	KEY-3 71	Keynote: The Synthesis and Applications of Sol-Gel Catalysts <i>Gonzalez</i> Presenting Author: Richard D Gonzalez Tulane University
9:10	PRE-4 72	Sol/gel Prepared Re-Co Bimetallic Catalysts: Effect of Support on Structure and Catalytic Properties <i>Guczi - Stefler - Borko - Koppany - Mizukami - Toba - Niwa</i> Presenting Author: Laszlo Guzzi Department of Surface Chemistry and Catalysis, Institute of Isotope and Surface Chemistry, CRC, HAS - Department of Surface Chemistry, National Institute of Materials and Chemical Research -
9:30	PRE-21 73	Study of Pd/Al ₂ O ₃ -ZrO ₂ catalysts prepared by the sol-gel method <i>Tiznado - Zaera - Fuentes Moyado - Flores</i> Presenting Author: Hugo J Tiznado Centro de Ciencias de la Materia Condensada-UNAM - University of California at Riverside -
9:50	PRE-3 74	A New Method for the Immobilization of Complexes on the Surface of Silica-Alumina Gel. <i>Mendoza - Halachev - Talavera - Meneses</i> Presenting Author: Todor D. Halachev Centro de Fisica Aplicada y Tecnologia Avanzada, UNAM. -
10:10	PRE-53 75	Washcoats for structured reactors: V ₂ O ₅ /Titania supported on aluminum <i>Giornelli - Löfberg - Bordes-Richard</i> Presenting Author: Elisabeth Bordes-Richard Laboratoire de Catalyse de Lille, USTL-ENSCL -

Mesoporous Materials	Nanocatalysts	Novel Catalyst Preparation Techniques	Catalyst Characterization By Raman Spectroscopy
Spectroscopic Characterization Of Catalysts	Catalyst Characterization By X-Ray Absorption Techniques		



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 Preparation and Characterization (2)
Mesoporous Materials

Scientific Program

Time	Ref. Code	Title
11:00	PRE-118 76	Organic-Inorganic Composites as Scaffolds for Catalytic Structures <i>Notestein - Katz - Iglesia</i> Presenting Author: Alexander Katz University of California at Berkeley -
11:20	PRE-51 77	Surfactant-Assisted Synthesis of Hierarchically Structured Alumina <i>Deng - Toepke - Shanks</i> Presenting Author: Brent H. Shanks Department of Chemical Engineering, Iowa State University -
11:40	PRE-112 78	Wide-Pore Zirconia-Titania Mixed Oxides Prepared by Solvothermal Method <i>Barrera - Viniegra - Escobar - de los Reyes Heredia</i> Presenting Author: María Concepción Barrera Universidad Autónoma Metropolitana-Iztapalapa - Instituto Mexicano del Petróleo -
12:00	PRE-27 79	Effect of thermal treatment on the texture and acidic properties of mesoporous titania <i>Pizzio</i> Presenting Author: Luis R. Pizzio Centro de Investigación y Desarrollo en Ciencias Aplicadas (CINDECA)UNLP, CONICET
12:20	PRE-93 80	Characterization and catalytic activity of Ni/MCM-41 catalysts prepared by Deposition-Precipitation. <i>Nares - Ramirez - Gutiérrez-Alejandre - Cuevas - Klimova</i> Presenting Author: Rubén Nares UNICAT, Facultad de Química, UNAM - Instituto Mexicano del Petróleo -
12:40	FCE-39 81	Steam Reforming of Methanol over Supported Bimetallic PdZn catalyst <i>Chin - Wang - Dagle - Hu - Neylon - Kropf - Marshahll</i> Presenting Author: Ya-Huei (Cathy) Chin Chemical Process Development Group, Pacific Northwest National Laboratory, Richland, WA - Chemical Technology Division, Argonne National Laboratory, Argonne, IL -

Catalysts Preparation By Sol-Gel Methods	Nanocatalysts	Novel Catalyst Preparation Techniques	Catalyst Characterization By Raman Spectroscopy
Spectroscopic Characterization Of Catalysts	Catalyst Characterization By X-Ray Absorption Techniques		



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 Preparation and Characterization (3)
 Nanocatalysts

Scientific Program

Time	Ref. Code	Title
11:00	PRE-52 145	Synthesis And Structural Characterization Of Iridium Nanoparticles Formed Inside And Outside The Pore Structure Of Zeolite NaY <i>Li - Gates</i> Presenting Author: Fen Li University of California, Davis -
11:20	PRE-99 146	Nanoscale Design of Supported Iron Fischer-Tropsch Synthesis Catalysts <i>Xu - Bartholomew</i> Presenting Author: Jian Xu Brigham Young University -
11:40	PRE-67 147	Synthesis of highly loaded and highly dispersed nickel on carbon nanofibers by homogeneous deposition precipitation <i>Bitter - van der Lee - Slotboom - van Dillen - de Jong</i> Presenting Author: Johannes Hendrik Bitter Utrecht University -
12:00	PRE-121 148	Novel Method of Preparation of Gold Nanoparticles by Ion Exchange <i>Tuzovskaya - Bogdanchikova - Gurin - Datye - Pestryakov - Simakov</i> Presenting Author: Nina Bogdanchikova Tomsk Polytechnic University - CCMC-UNAM - Physico-Chemical Research Institute - University of New Mexico -
12:20	PRE-18 149	Controlled Preparation of Gold-Nanoparticle Catalysts in Porous Materials: Synergistic Interplay of Self-Assembly, Nucleation, and Topology <i>Dai - Lee - Zhu - Zhang - Overbury</i> Presenting Author: Sheng Dai Oak Ridge National Laboratory -
12:40	PRE-31 150	EXAFS Characterization of Au Nanocatalysts <i>Schwartz - Mullins - Zhu - Lee - Dai - Overbury</i> Presenting Author: Viviane Schwartz University of Delaware - Oak Ridge National Laboratory -

Catalysts Preparation By Sol-Gel Methods	Mesoporous Materials	Novel Catalyst Preparation Techniques	Catalyst Characterization By Raman Spectroscopy
Spectroscopic Characterization Of Catalysts	Catalyst Characterization By X-Ray Absorption Techniques		



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Scientific Program

Preparation and Characterization (4)

Novel Catalyst Preparation Techniques

Time	Ref. Code	Title
15:00	PRE-40 151	An Overview of Environmentally Responsible Technologies for Solid Catalyst Preparation <i>Hu - Ladebeck</i> Presenting Author: X.D. Hu Sud-Chemie Inc. -
15:20	PRE-49 152	Strategies for the Design and Preparation of Recoverable Polymerization Catalysts <i>Nguyen - Yu - Jones</i> Presenting Author: Christopher W Jones Georgia Institute of Technology -
15:40	PRE-28 153	Spherical Magnesium Alkoxides as Precursors for Ziegler-Natta Catalysts <i>Kemp - Coker - Zechmann - Boyle - Voigt - Rodriguez - Zum Mallen</i> Presenting Author: Richard A Kemp Sandia National Laboratories - The University of New Mexico - Dow Chemical Company -
16:00	PRE-34 154	Synthesis, characterization and catalytic properties of conductive polymer-supported catalysts <i>BOST - EPRON</i> Presenting Author: Florence EPRON Laboratoire de Catalyse en Chimie Organique, UMR6503, CNRS, Université de Poitiers -
16:20	PRE-76 155	High surface area boron nitride powders as catalyst support for VOC combustion <i>Bonnetot - Auroux - Perdigon Melon - Guimon</i> Presenting Author: Bernard Bonnetot Laboratoire des multimatériaux et interfaces, Université Claude Bernard Lyon I - Institut de Recherches sur la Catalyse, CNRS - LPCM, Université de Pau -
16:40	PRE-102 156	Post-synthesis of Ti-MWW as a highly active oxidation catalyst <i>TATSUMI - Wu</i> Presenting Author: TAKASHI TATSUMI Yokohama National University -

Catalysts Preparation By Sol-Gel Methods	Mesoporous Materials	Nanocatalysts	Catalyst Characterization By Raman Spectroscopy
Spectroscopic Characterization Of Catalysts	Catalyst Characterization By X-Ray Absorption Techniques		



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Scientific Program

Preparation and Characterization (5)

Catalyst Characterization By Raman Spectroscopy

Time	Ref. Code	Title
8:30	KEY-8 217	Keynote: Looking Inside: In-situ Characterization by UV Raman Spectroscopy <i>Stair</i> Presenting Author: Peter C Stair Northwestern University
9:10	PRE-66 218	Synchronised in situ UV-Vis and Raman spectroscopy of catalytic solids <i>Tinnemans - Nijhuis - Visser - Weckhuysen</i> Presenting Author: Bert M. Weckhuysen Departement Anorganische Chemie en Katalyse, Debye Instituut, Universiteit Utrecht -
9:30	PRE-14 219	Advanced TAP reactor and operando Raman studies of the formation of carbonaceous deposits during propane ODH over vanadia based catalysts <i>Mul - Banares - van der Linden - Garcia Cortéz - Moulijn</i> Presenting Author: Guido Mul Reactor & Catalysis Engineering, Delft University of Technology, Julianalaan 136, 2628 BL, Delft, The Netherlands - Instituto de Catálisis y Petroleoquímica, CSIC, Campus Cantoblanco, E-28049-Madrid, Spain -
9:50	PRE-38 220	A Comparison of UV and Visible Raman Spectroscopy of Bulk Metal Molybdate and Vanadate Catalysts <i>Tian - Briand - Li - Wachs</i> Presenting Author: Hanjing Tian Zettlemoyer Center for Surface Studies, Lehigh University - Univ. National de La Plata - State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics -
10:10	PRE-88 221	Advances in UV Raman Spectroscopic Studies on Catalysts and Catalyst Preparation <i>Li</i> Presenting Author: Can Li State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics

Catalysts Preparation By Sol-Gel Methods	Mesoporous Materials	Nanocatalysts	Novel Catalyst Preparation Techniques
Spectroscopic Characterization Of Catalysts	Catalyst Characterization By X-Ray Absorption Techniques		



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Scientific Program

Preparation and Characterization (6)

Spectroscopic Characterization Of Catalysts

Time	Ref. Code	Title
11:00	PRE-80 222	Characterization of Nitrile/Metal Oxide Interfaces using IR-visible Sum-frequency Generation Presenting Author: Christopher T. Williams University of South Carolina, Dept. of Chemical Engineering
11:20	PRE-45 223	Mass Transfer processes during sorption and diffusion of aromatic molecules on medium pore zeolites <i>Jentys - Tanaka - Lercher</i> Presenting Author: Andreas Jentys TU München -
11:40	PRE-55 224	Applications of In Situ Time-Resolved X-ray Diffraction/Mass Spectrometry in the Characterization of Catalyst <i>Hanson - Kim - Rodriguez - Brito</i> Presenting Author: Jonathan C Hanson Brookhaven National Laboratory - Instituto Venezolano de Investigaciones Cientificas -
12:00	PRE-23 225	Atomic Resolution Electron Spectroscopy Investigation of Supported Catalysts: Pd/TiO ₂ and Pd-Ni/TiO ₂ <i>Liu - Nag</i> Presenting Author: Jingyue (Jimmy) Liu Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, Missouri 63167 - Process Technology Group, Engelhard Corporation, 23800 Mercantile Road, Beachwood, Ohio -
12:20	PRE-72 226	17O MAS and 3QMAS NMR Investigation of Crystalline V ₂ O ₅ and Layered V ₂ O ₅ .nH ₂ O Gels. <i>Fontenot - Wiench - Schrader - Pruski</i> Presenting Author: Glenn L Schrader Iowa State University, Department of Chemical Engineering - Ames Laboratory, US Department of Energy -
12:40	PRE-36 227	TG-FTIR study of the thermal stability of smectites exchanged with different chain length organocations <i>Solano - Ferrer - Sánchez - Choren - Moronta</i> Presenting Author: Roger J Solano The University of Zulia -

Catalysts Preparation By Sol-Gel Methods	Mesoporous Materials	Nanocatalysts	Novel Catalyst Preparation Techniques
Catalyst Characterization By Raman Spectroscopy	Catalyst Characterization By X-Ray Absorption Techniques		



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Scientific Program

Preparation and Characterization (7)

Catalyst Characterization By X-Ray Absorption Techniques

Time	Ref. Code	Title
15:00	PRE-63 228	In-situ Time-resolved Structure Analysis for [Ru6C]/MgO under Vacuum and CO/H2 by Energy Dispersive X-ray Absorption Fine Structure (DXAFS) <i>Suzuki - Yamaguchi - Chihara - Inada - Asakura - Nomura - Iwasawa</i> Presenting Author: Yasuhiro Iwasawa Department of Chemistry, Graduate School of Science, The University of Tokyo - TUS, Chiba - IPCR, Saitama - NU, Nagoya - HU, Sapporo - PF, KEK, Ibaraki -
15:20	PRE-113 229	An in-situ, real-time XANES and EXAFS characterization of noble metal catalyst impregnation <i>Regalbuto - Liu - Hao - Kropf - Miller</i> Presenting Author: John R. Regalbuto U. Illinois at Chicago - BP Research Center - Argonne National Laboratory -
15:40	PRE-73 230	Comparison between the activities of CoMo and CoW silica supported catalyst for SWNT production by CO disproportionation. <i>Herrera - Resasco</i> Presenting Author: Jose E Herrera School of Chemical Engineering and Material Science, University of Oklahoma -
16:00	PRE-60 231	Influence of Support Alkalinity on the Binding Site and Hydrogen Coverage of Supported Platinum Particles as Determined by in situ Pt L23 XANES <i>Ramaker - Oudenhuijzen - van Bokhoven - Koningsberger</i> Presenting Author: David E. Ramaker George Washington University - Utrecht University -
16:20	PRE-104 232	Properties and Characterization of Highly Dispersed Supported Re Catalysts <i>Modica - Bare - Mickelson - Rehr - Ankudinov</i> Presenting Author: Frank S Modica UOP LLC - University of Washington -
16:40	PRE-35 233	Synthesis, characterization and reactivity of VMoSbO and VFeMoSbO Catalysts with rutile-type structures <i>Cimini - Millet - Ballarini - Cavani - Ciardelli - Ferrari</i> Presenting Author: Massimo Cimini Institut de Recherches sur la Catalyse, CNRS - Dipartimento di Chimica industriale e dei Materiali, Univ. of Bologna -

Catalysts Preparation By Sol-Gel Methods	Mesoporous Materials	Nanocatalysts	Novel Catalyst Preparation Techniques
Catalyst Characterization By Raman Spectroscopy	Spectroscopic Characterization Of Catalysts		



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Grand Coral 3
Selective Oxidation (1)
Selective Oxidation I

Scientific Program

Time	Ref. Code	Title
8:30	KEY-29 275	Keynote: Catalytic Partial Oxidation of Higher Hydrocarbons at Millisecond Contact Times: Decane, Hexadecane, and Diesel Fuel <i>Krummenacher - West - Schmidt</i> Presenting Author: Lanny D Schmidt University of Minnesota -
9:10	IND-8 276	On the sintering of silver catalysts for ethylene oxidation. <i>Reinalda - Lockemeyer - Yeates</i> Presenting Author: Donald Reinalda Shell Global Solutions International BV - Shell Chemical Company LP -
9:30	GEN-18 277	Liquid-phase ethylbenzene oxidation with barium catalysts <i>Toribio - Campos-Martin - García Fierro</i> Presenting Author: Pedro P Toribio Instituto de Catálisis y Petroleoquímica, CSIC -
9:50	GEN-10 278	Nanoparticle Indium Tin Oxide Catalyst for the Partial Oxidation of Methanol <i>Kulprathipanja - Falconer</i> Presenting Author: Ames Kulprathipanja University of Colorado -
10:10	GEN-5 279	Molecular Squares as Hosts for Catalyzed Epoxidation Reactions <i>Curet-Arana - Broadbelt - Snurr</i> Presenting Author: María C Curet-Arana Northwestern University -

Selective Oxidation II



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Friday
Grand Coral 3
Selective Oxidation (2)
Selective Oxidation II

Scientific Program

Time	Ref. Code	Title
11:00	IND-3 280	Characterization of Cesium-Promoted Silver Epoxidation Catalysts <i>Muslehiddinoglu - Vannice</i> Presenting Author: Jale Muslehiddinoglu Bristol-Myers Squibb - Pennsylvania State University -
11:20	IND-25 281	Catalytic oxidative conversion of alkanes to olefins <i>Seshan - Leveles - Babich - Lercher - Lefferts</i> Presenting Author: Leon Lefferts University of Twente, Faculty of Chemical Technology, Catalytic Processes and Materials, - Technical University of Munich -
11:40	NAN-11 282	Polyoxometalate Catalysts for the Selective Oxidation of Light Alkanes <i>Holles - Dillon - Labinger - Davis</i> Presenting Author: Joseph H Holles Michigan Tech University - Chevron Products Company - Beckman Institute, California Institute of Technology - California Institute of Technology -
12:00	PRE-15 283	Comparison of tellurium and antimony environment in the active phases of the MoVTe(Sb)O catalysts used for propane oxidation and ammoxidation. <i>MILLET - Baca - Pigamo - Dubois</i> Presenting Author: Jean-Marc M MILLET Institut de Recherches sur la Catalyse, CNRS, - Atofina S.A. Centre de Recherche Rhône-Alpes, -
12:20	PRE-111 284	Silica- and alumina-supported sol-gel Ni-Co and Ni-Co-Ln molybdate catalysts: preparation and catalytic activity in propane oxidative dehydrogenation <i>Maione - Ruiz - Devillers</i> Presenting Author: Andrea Maione Université Catholique de Louvain. Unité de Chimie des Matériaux Inorganiques et Organiques - Université Catholique de Louvain. Unité de Catalyse et de Chimie des Matériaux Divisés -
12:40	PRE-109 285	Transient Kinetics and Spectroscopic Studies for Determination of Active Sites on V/Ti-Oxide Catalysts in Toluene Partial Oxidation <i>Kiwi-Minsker - Renken</i> Presenting Author: Lioubov Kiwi-Minsker LGRC, Swiss Federal Institute of Technology -

Selective Oxidation I