

Conference Program

Sunday March 27, 2016

Board Meeting: 1:00 – 3:00 PM, Gardenia C

Registration: 3:00 – 6:00 PM

Reception: 3:00 – 5:00 PM, Upper & Lower Promenade

Exhibitor Set-Up: 4:00-9:00 PM, Hibiscus



Monday March 28, 2016

---Morning---

Guests Breakfast: 8:30 -10:30 AM, Azalea

Registration: 7:00 AM – 5:00 PM

Exhibition: 8:00 AM – 5:00 PM, Hibiscus

General Session: 8:20 – 11:50 AM, Jasmine

including

2015 Paul N. Rylander Award Lecture

Sponsored by BASF

Dr. Joe Zoeller, Eastman Chemical Company (retired)

---Afternoon---

Poster set-up: 1:00 – 5 :00 PM, Upper & Lower Promenade

General Session: 1:30 – 5:00 PM, Jasmine

including

Keynote

Professor Tehshik Yoon, University of Wisconsin

---Evening---

Poster Session, 5:00 – 7 :00 PM, Upper & Lower Promenade

Evonik Hospitality Suite, 7:00-10:00 PM, Riverwalk Outdoor Terrace



Tuesday March 29th, 2016

---Morning---

Registration: 8:00 AM – 5:00 PM

Exhibition: 8:00 AM – 5:00 PM, Hibiscus

General Session: 8:20 – 11:50 AM, Jasmine

including

2016 Murray Raney Award Lecture

Sponsored by W.R. Grace

Prof. Jens Norskov, Stanford University

and

Keynote

Prof. Huw Davies, Emory University

---Afternoon---

Lunch: 12:00 – 1:00 PM, Grab-n-go Lunch provided by ORCS

ORCS Short Course on Reactor Selection & Design: 1:30 – 4:30 PM, Jasmine

Separate Registration Required for Short Course

---Evening---

Poster Session, 5:00 – 7 :00 PM, Upper & Lower Promenade



Wednesday March 30th, 2016

Registration: 8:00 AM – 5:00 PM

Poster Session Take Down: 8:00 -9:00 AM

Exhibition: 8:00 – 12:00 PM, Hibiscus

Exhibition Take Down: 12:00 – 5:00 PM, Hibiscus

---Morning---

General Session: 8:30 – 11:50 AM, Jasmine

including

2016 Paul N. Rylander Award Lecture

Sponsored by BASF

Dr. Anil Guram, Art of Elements, LLC

---Afternoon---

General Session: 1:30 – 4:50 PM, Jasmine

including

Keynote

Dr. Martin Johnson, Eli Lilly and Co.

---Evening---

Banquet and Awards Ceremony, 7:00 – 9 :00 PM, Hibiscus



Thursday March 31st, 2016

---Morning---

General Session: 8:30 – 11:50 PM, Jasmine

including

Keynote

Prof. Gadi Rothenberg, Univ. of Amsterdam

Conference Oral Presentation Program

2016 Organic Reactions Catalysis Society Meeting
 March 27-31
 Hyatt Regency Miami

Monday	Title	Authors	Affiliations
8:20-8:30	Opening remarks	Will Medlin, ORCS Chair	
8:30-9:15	Rylander Award lecture: Selected Advances in Catalysis and Reactor Systems for the Generation of Acetates and Propionates	Joe Zoeller	Eastman Chemical (retired)
9:15-9:40	Hydrogenation of Sodium Oleate in Aqueous Emulsion with Hoveyda-Grubbs 2nd Generation Catalyst	Hui Wang, Max Hamilton, <u>Garry L. Rempel*</u>	University of Waterloo
9:40-10:05	Highly Organic Phase Soluble Polyisobutylene-Bound Cobalt Phthalocyanines as Recyclable Catalysts for Nitroarene Reduction	<u>Chih-Gang Chao*</u> and David E. Bergbreiter	Texas A&M University
10:05-10:35	Break	<i>sponsored by Parr</i>	
10:35-11:00	BDO: Catalyst Technologies and Raw Materials; which technology will prevail?	D. Ostgard	Evonik
11:00-11:25	Supported colloidal $\text{O}^{\text{NanoSelect}}\text{O}$ catalysts: the role of the stabilizer in the catalyst preparation and its effect on the performance	<u>Peter T. Witte*</u> , Ramon van Maanen, Christien Groen	BASF
11:25-11:50	Functionalized Carbons Designed for Removal of Pd from Pharmaceutical Mixtures	<u>Girish Srinivas*</u> , Steven D. Dietz, Steven C. Gebhard and Michael V. Mundschau	TDA Research
12:00-1:30	Lunch break		
1:30-2:15	Keynote Lecture: Enantiocontrol in Photochemical Synthesis	Tehshik Yoon	University of Wisconsin
2:15-2:40	Hydrogenation of amide acetals and iminium esters: Catalytic reduction of amides under very mild conditions	<u>Renat Kadyrov</u>	Evonik
2:40-3:05	Non-metal Catalyzed Hydrogenation of Polar Substrates in Organic Molecules using Thermally Frustrated Lewis Pairs	Adrian Houghton, Sean Whittemore, Abhi Karkamkar, Don Camaioni, Mark Bowden, Bojana Ginovska, Greg Schenter, <u>Tom Autrey*</u>	Pacific Northwest National Laboratory
3:05-3:35	Break	<i>sponsored by Parr</i>	
3:35-4:00	Menthol via Heterogeneous Ru/H-BEA catalysts: Enhancing the Selectivity by Optimization of the Preparation Conditions	<u>Jutta Plöber¹</u> , Martin Lucas ¹ , Peter Claus ^{1*}	TU-Darmstadt

4:00-4:25	Ru/Fe-catalyzed Reduction of CO ₂ with C-C bond Formation	Yuehui Li, Kathrin Junge, Matthias Beller*	Leibniz Institute for Catalysis
4:25-5:00	Whither goest catalysis?	Robert Augustine	Seton Hall University
5:00-7:00	Poster session		

Tuesday

8:20-9:15	Raney Award lecture: Theory of transition metal heterogeneous catalysis	Jens K. Nørskov	Stanford University
9:15-9:40	Synthesis of 1,4-Diazabicyclo [2,2,2] Octane With Alkaline Earth Phosphate Catalysts	James E Wells ¹ , Fredrick C Wilhelm ¹ , James F White ^{2*} , Nance K Dicciani ³	¹ Air Products and Chemicals (ret'd), ² 3RiversCatalysis, LLC, ³ Honeywell (ret'd)
9:40-10:05	Renewable Isoprene by Dehydrodecarboxylation of Mevalonolactone	Joseph McAuliffe, Will Bazella, Torren R. Carlson, Maggie Cervin, Rohan Durbal James Ngai, Annalisa Hargis, Yu-Ling Hsiao, Joseph Murphy, Karl Sanford, Sourav K. Sengupta, Gregory Whited and Joachim C. Ritter*	E. I. DuPont de Nemours & Co.
10:05-10:35	Break	<i>sponsored by Parr</i>	
10:35-11:00	Functionalized polymer-supported pyridine ligands in palladium catalyzed C(sp ³)-H Arylation	Li-Chen Lee ¹ , Jian He ² , Jin-Quan Yu ^{2*} , Christopher M. Jones ^{1*}	¹ Georgia Institute of Technology, ² Scripps Research Institute
11:00-11:25	Catalysis for Sustainable Chemistry and Products	Sunitha Sadula, Weihua Deng, Vladimiro Nikolakis, James R. Kennedy, Basudeb Saha*	Catalysis Center for Energy Innovation, University of Delaware
11:25-12:10	Keynote lecture: Collaborative Approach for C-H Functionalization	Huw Davies	Emory University

Tuesday afternoon: Reactor design and selection short course, 1:30-4:30

5:00-7:00	Poster session		
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Wednesday

8:30-9:15	Rylander Award lecture:	Anil Guram	Art of Elements, LLC
9:15-9:40	Hydrogenation of Chloronitrobenzene over AuPd/TiO ₂ Catalysts	Yu-Wen Chen*, Ya-Ting Chu	National Central University Taiwan
9:40-10:05	Pd-Containing Catalysts for Suzuki Cross-Coupling Based on Polymeric Matrix of Hypercrosslinked Polystyrene	Linda Zh. Nikoshvili ^{1*} , Nadezhda A. Nemygina ¹ , Valentina G. Matveeva ¹ , Liubov Kiwi-Minsker ^{1,2} , Esther M. Sulman ¹	¹ Tver Technical University, ² Ecole Polytechnique Fédérale de Lausanne
10:05-10:35	Break	<i>sponsored by Parr</i>	
10:35-11:00	Lattice-Mismatched PtFe Nanocatalysts for Aqueous Phase Oxidation of Biomass to Value-Added Chemicals	Xin Jin, Meng Zhao, Pallavi Bobba, Chun Zeng, Prem S. Thapa, Bala Subramaniam, Raghunath V. Chaudhari*	University of Kansas

11:00-11:25	Selective aqueous-phase hydrogenation of levulinic acid to pentanediol over bimetallic catalysts: the influence of the promoter	Louis Corbel-Demaiilly ¹ , Alicia Wilhelm ¹ , Amandine Cabiacc ² , Emmanuelle Guillon ² , Michèle Besson ¹ , <u>Catherine Pinel</u> ^{1*}	¹ CNRS-Université Lyon, ² IFPen-Lyon
11:25-11:50	Mechanistic Investigation of Acetic Acid Ketonization over Stable ZrO ₂ -based Catalysts under Hydrothermal Reaction Conditions	<u>Juan A. Lopez-Ruiz</u> ¹ , Alan R. Cooper ¹ , Qiuxia Cai ^{1,2} , Donghai Mei ¹ , Karl O. Albrecht ^{1*}	¹ Pacific Northwest National Laboratory, ² Zhejiang University of Technology
12:00-1:30	Lunch		
1:30-2:15	Keynote lecture: Continuous Reactors for Homogeneous and Heterogeneous Catalysis	<u>Martin D Johnson</u> [*] , Scott A May, Joel R Calvin, Timothy M Braden, Douglas P Kjell, Ryan J Linder, Nikolay Zaborenko, Matthew H Yates, Shon R Pulley	Eli Lilly
2:15-2:40	Bimetallic Hydroprocessing Catalysts for IsoTherming [®] Reactors	<u>Hasan Dindi</u> [*] , Donghua Zuo, and Matthew Locklear	E. I. DuPont de Nemours & Co.
2:40-3:05	Selecting the appropriate test for a given catalytic problem	<u>Erik-Jan Ras</u> [*] , Roel Moonen, Pieter Imhof	Avantium
3:05-3:35	Break	<i>sponsored by Parr</i>	
3:35-4:00	Hybrid Polymer/Oxide Hollow Fibers as Versatile and Scalable Flow Reactors for Heterogeneously Catalyzed Organic Reactions	Eric G. Moschetta ¹ , Solymar Negretti ² , Kathryn M. Chepiga ² , Nicholas A. Brunelli ^{1,2} , Ying Labreche ¹ , Yan Feng ¹ , Fateme Rezaei ¹ , Ryan P. Lively ¹ , William J. Koros ¹ , Huw M. L. Davies ² , and <u>Christopher W. Jones</u> ^{1*}	¹ Georgia Institute of Technology, ² Emory University
4:00-4:25	Green Reactor Technologies for Process Intensification of Biodiesel Processes: Cost, Energy Savings and Emissions Abatement	<u>Aashish Gaurav</u> , Flora Ng [*] , Garry Rempel	University of Waterloo
4:25-4:50	Asymmetric Hydrogenation of α -Amino Ester: A Spectroscopic View	<u>Long Zhang</u> , Mehdi Lohrasbi, Uma Tumuluri and Steven S.C. Chuang [*]	University of Akron
Banquet			

Thursday

8:30-9:15	Keynote lecture: Break the Bark: New Catalytic Routes From Biomass to Chemicals	Gadi Rothenberg	University of Amsterdam
9:15-9:40	The role of the support and reaction conditions on the mechanism of vapor phase m-cresol hydrodeoxygenation over Pt/TiO ₂ and Pt/C catalysts	Glen A. Ferguson, <u>Michael B. Griffin</u> , Daniel A. Ruddy, Mary J. Bidy, Gregg T. Beckham [*] , and Joshua A. Schaidle [*]	National Renewable Energy Laboratory
9:40-10:05	Conversion of Lignin to Functionalized Aromatic Monomers Over Pt/alumina	Ashley McVeigh, Florent Bouxin, Michael C. Jarvis and <u>S David Jackson</u> [*]	University of Glasgow
10:05-10:35	Break	<i>sponsored by Parr</i>	

10:35-11:00	Valorization of sugars in hemicellulose hydrolysates by catalytic aerobic oxidation	Elie Derrien ¹ , Jialu Li ¹ , Philippe Marion ² , Catherine Pinel ¹ , <u>Michèle Besson</u> ^{1*}	¹ CNRS Univ. Lyon, ² Solvay Research and Innovation Center Lyon
11:00-11:25	Rational Design of Zn _x Zr _y O _z Catalysts for the Conversion of Ethanol to Isobutene with Improved Selectivity and Stability	<u>Rebecca A.L. Baylon</u> ¹ , Colin Smith ¹ , Junming Sun, ^{1*} Changjun Liu ¹ , and Yong Wang ^{1,2*}	¹ Washington State University, ² Pacific Northwest National Laboratory
11:25-11:50	Kinetics and Modelling of Esterification of Levulinic Acid – Batch and Continuous Operation	<u>T. Salmi</u> ^{1*} , V. Hrobar ¹ , P. Mäki-Arvela ¹ , K.Eränen ¹ , F. Sandelin ²	¹ Åbo Akademi, ² TF-Engineers Finland
11:50-12:00	Closing remarks	Will Medlin, ORCS Chair	

Poster Program

5-7 pm, March 28 and March 29

26th ORCS Meeting

Upper and Lower Promenade

Hyatt Regency Miami

All posters are listed below. Please note that all posters should be put up on Monday between 12:00-5:00 PM, and taken down after 7:00 PM on Tuesday. Odd-numbered posters will be presented on **Monday, March 28** and even-numbered posters will be presented on **Tuesday, March 29**.

No.	Title	Authors	Affiliations
1	Practical tricks at elaboration and scale-up of liquid phase Pd/C mediated catalytic hydrogenations in pharmaceutical production	Antal Tungler	Centre for Energy Research Hungarian Academy of Sciences; Budapest University of Technology and Economics
2	Environmentally Friendly Combustion of Methane of Natural Gas in the Catalytic Heat Generators	Zaresh T. Zheksenbaeva, Svetlana A. Tungatarova*, Tolkyn S. Baizhumanova, Valentina P. Grigoriyeva, Larissa V. Komashko	D.V. Sokolsky Institute of Organic Catalysis and Electrochemistry
3	Pearlman's Catalyst: Unveiling the Core Shell Structure	Wynter E. G. Osminski ^{1*} , Jaime Blanton ¹ , Peter W. Albers ² , Konrad Moebus ¹ , Stefan D. Wieland ³ , Stewart F. Parker ⁴	¹ Evonik Corp., ² AQura GmbH; ³ ISIS Facility, STFC Rutherford Appleton Laboratory
4	Pd (Pt)/ZrO ₂ Catalyzed One-pot Valeric Acid Decarboxylative Coupling and Hydrodeoxygenation for Synthesis of <i>n</i> -Nonane	Irina L. Simakova ^{1,2*} , Yulia A. Gulyaeva ¹ , Valentina N. Panchenko ¹ , Mikhail N. Simonov ^{1,2}	¹ Boreskov Institute of Catalysis; ² Novosibirsk State University
6	α -Pinene oxide isomerisation over cobalt modified zeolites	Eero Salminen ^{1*} , Simon Bridier ¹ , Pasi Virtanen ¹ , Tapio Salmi ¹ , Narendra Kumar ¹ , Jyri-Pekka Mikkola ^{1,2}	¹ Åbo Akademi; ² Umeå University
7	Homogeneous Fischer-Tropsch Catalysis in Ionic Liquids	Girish Srinivas*, Steven C. Gebhard, Jeffry Martin, Michael Looker, Michael Mundscha	TDA Research
8	Efficient Hydrogenation Reaction on Skeletal Ni Catalysts Prepared from Thermally and Chemically Treated Ni-Zr Amorphous Alloys	Ai Nozaki ¹ , Yasutomo Tanihara ¹ , Yasutaka Kuwahara ^{1,2} , Tetsutaro Ohmichi ¹ , Takashi Kamegawa ³ , Kohsuke Mori ^{1,2} , Hiromi Yamashita ^{1,2,*}	¹ Osaka University; ² Kyoto University; ³ Osaka Prefecture University
9	Polymeric Solvents as Anti-leaching Agents for Homogeneous Catalysis	Mary L. Harrell*, Coralys Torres López, Kimberly Gonzalez, Yun-Chin Yang, David E. Bergbreiter	Texas A&M University
10	Effect Of Metals On The Hydrogenolysis Of Glycerol To Other Value-Added Chemicals Using A	Chau T.Q. Mai, Flora T. T. Ng*	University of Waterloo

Supported HSiW Catalyst			
11	Cu-Fe spinels as Magnetically Recoverable Catalyst for the Ferrier Rearrangement of 2-Nitroglycals	Agustín Ponzinibbio*, Rodolfo Bravo, Cintia C. Santiago, Florencia Rochetti, <u>Leticia Lafuente</u> ¹	Universidad Nacional de La Plata
12	Parameter Optimization of the Selective Benzene Hydrogenation using a Supported Ru-Catalyst	<u>Hendrik Spod</u> , Martin Lucas, Peter Claus*	TU Darmstadt
13	Determination of cooper dispersion loaded-polyoxometalate catalyst using the dissociative N ₂ O adsorption method followed by temperature-programmed-reduction	<u>Mshari.A. Alotaibi</u>	Prince Sattam bin Abdulaziz University
14	Preparation of components of liquid fuels by hydroprocessing of lignin	<u>Elena I. Shimanskaya</u> , Antonina A. Stepacheva, Esther M. Sulman	Tver State Technical University
15	Alkaline ionic liquids and their applications in the hydrogenation of citral	Eero Salminen ^{1*} , Tapio Salmi ¹ , <u>Jyri-Pekka Mikkola</u> ^{1,2}	¹ Abo Akademi University; ² Umea University
16	Investigation of methanol to gasoline synthesis process over modified H-ZSM-5 zeolites	Valentine Yu. Doluda, <u>Esther M. Sulman</u> *, Valentina G. Matveeva	Tver State Technical University
17	Magnetically separable catalysts for selective hydrogenation of unsaturated compounds	<u>Valentina G. Matveeva</u> ¹ , Esther M. Sulman ^{1*} , Linda Zh. Nikoshvili ¹ , David Gene Morgan ² , Waleed E. Mahmoud ³ , Lyudmila M. Bronstein ^{2,3}	¹ Tver Technical University; ² Indiana University; ³ King Abdulaziz University
18	Transformation of butanediols in alkaline aqueous media over platinum-supported catalysts	Aurélien Herbinski, Louis Corbel-Demaiilly, Jamal Ftouni, Carine Michel, Philippe Sautet, Stephan Steinman, Kuncheng Li, Michèle Besson, <u>Catherine Pinel</u> *	CNRS-Université Lyon
19	Catalytic Hydrogenation of Nitrobenzene with the Use of Magnetic Separable Catalysts	Mikhail Yu. Rakitin ¹ , Alena I. Petrova ¹ , Esther M. Sulman ¹ , Lyudmila M. Bronstein ² , <u>Valentina G. Matveeva</u> ^{1*}	¹ Tver Technical University; ² Indiana University
20	Epoxidation of glycals under biphasic conditions using ionic liquids as PTC	Agustín Ponzinibbio ^{1*} , Rodolfo Bravo ¹ , Leticia Lafuente ¹ , <u>Cintia C. Santiago</u> ¹	Universidad Nacional de La Plata
21	Facile continuous flow N-alkylation of imidazoles and related amines using zeolite as catalyst	Laszlo Kocsis, Melinda Fekete, Richard V. Jones	ThalesNano
22	Continuous Liquid Phase Hydrogenation of 1,4-Butynediol to High Purity 1,4-Butanediol Over Particulate Catalyst In Fixed Bed Reactor	Setrak K. Tanielyan ^{1*} , <u>Santosh R. More</u> ¹ , Robert L. Augustine ^{1*} , Stephen Schmidt ²	¹ Seton Hall University; ² W.R. Grace & Co.

23	Use of glycidol as an alternative to glycerol for 1,3-PD catalytic production	Fiseha B. Gebretsadik ¹ , Pilar Salagre ^{1*} , Yolanda Cesteros ¹	Universitat Rovira i Virgili
24	Selective Hydrogenation of Levulinic Acid using Polymer-Based Ru-Containing Catalysts	Linda Zh. Nikoshvili*, Anna O. Zaikovskaya, Igor I. Protsenko, Valentina G. Matveeva, Esther M. Sulman	Tver State Technical University
25	Improved synthesis of epoxidized vegetable oils using microwave technology	P. Tolvanen ^{1*} , A. Freitas ¹ , M. Gonzales ¹ , T. Samson ¹ , Emil Byström ³ , J-P. Mikkola ² , T. Salmi ¹	¹ Åbo Akademi; ² Umeå University; ³ Nordic ChemQuest AB
26	Tale of two protecting groups – BOC vs. SEM – for directed lithiation and C-C bond formation on a pyrrolopyrimidine core	Reji N. Nair ^{1,2} , Thomas D. Bannister ^{2*}	¹ Pacific Northwest National Lab; ² Scripps Research Institute
27	Batch reaction kinetics of aqueous phase hydrogenation of Lactic acid to 1,2-Propanediol	Santosh R. More*, Robert L. Augustine*, Setrak K. Tanielyan	Seton Hall University
28	Direct decomposition of methane over H-ZSM-5 supported Ni, Pd and Cu catalysts for the production of hydrogen and carbon nanostructure	A.I. Alharthi ^{1*} and J.S.J. Hargreaves ²	¹ Prince Sattam Bin Abdulaziz University; ² University of Glasgow
29	Hydrogenation of Furfural with a Pt-Sn Catalyst: The suitability to sustainable industrial application	Áine O'Driscoll ^{1,2,3*} , JJ Leahy ^{1,2,3} , Teresa Curtin ^{1,2}	University of Limerick
30	Synthesis of NeopentylGlycol Using Phase Transfer Catalyst	Azhar Hashmi	SABIC
32	One-pot Selective Conversion of Hemicellulose to Xylitol	Karolin Dietrich, Carlos Hernandez-Mejia, Peter Verschuren, Gadi Rothenberg, N. Raveendran Shiju*	University of Amsterdam
33	Pd-Catalyzed Selective Hydrogenation of Alkynols: the Main Peculiarities	Linda Zh. Nikoshvili ¹ , Nadezhda A. Nemygina ¹ , Valentina G. Maveeva ¹ , Liubov Kiwi-Minsker ² , Esther M. Sulman ^{1*}	¹ Tver State Technical University; ² EPFL
34	Hydrogenation of Naturally-Derived Nepetalactone as a Topical Insect Repellent	Sourav K. Sengupta ^{a,*} , Keith W. Hutchenson ^a , Yamaira I. Gonzalez, Scott C. Jackson, Mark A. Scialdone ^b , David L. Hallahan ^a , Bo Kou ^c , Leo E. Manzer ^d	^a E. I. du Pont de Nemours and Company; ^b BetterChem Consulting LLC; ^c Chevron Corp.; ^d Catalytic Insights LLC
35	Tunable catalytic properties of mixed oxides in ethanol conversion to high value compounds	Karthikeyan K. Ramasamy ^{1*} , Colin Smith ¹ , Heather Job ¹ , Yong Wang, ^{1,2} Michel Gray ¹	¹ Pacific Northwest National Laboratory, Richland, WA99352 (USA) ² Washington State University, Pullman
36	An efficient single step hydrogenation of succinic acid to 1, 4-butanediol over Ru-Re-Sn/C catalyst	Setrak K. Tanielyan ¹ , Balaraju Miryala ¹ , Ramesh Bhaghat ¹ , Gabriele Alvez ¹ , Norman Marin ¹ , Robert L.	¹ Seton Hall University; ² Catalytic Insights, LLC; ³ RiversCatalysis, LLC

		Augustine* ¹ , Leo Manzer ² , James White ³	
37	Product Distribution in Plant Sterol Hydrogenation	<u>Ville Nieminen</u> * ¹ , Dmitry Yu. Murzin ²	Raisio Nutrition Ltd; Åbo Akademi University
38	Understanding Migratory Insertion on an Iridium Pincer Complex: Unexpected Reactivity in the Presence of Lewis Acids	<u>Lauren C. Gregor</u> , Javier Grajeda, Peter S. White, Alexander J. M. Miller*	University of North Carolina
39	Dehydrogenation of 1-Butene to 1,3-Butadiene over Zinc Ferrite	Ron R. Spence, Stephen Sproules, Stephy Wilson, Keith Whiston and S David Jackson*	University of Glasgow
40	Silver catalysts for alcohol oxidation	<u>Y. Kotolevich</u> ^{1*} , E. Kolobova ² , J.E. Cabrera Ortega ³ , G. Mamontov ⁴ , Y. Kotolevich ¹ , E. Kolobova ² , J.E. Cabrera Ortega ³ , G. Mamontov ⁴ , E. Khramov ⁵ , H. J. Tiznado Vazquez ¹ , M.H. Farias ¹ , N. Bogdanchikova ¹ , E. Khramov ⁵ , H. J. Tiznado Vazquez ¹ , M.H. Farias ¹ , N. Bogdanchikova ¹ , E. Khramov ⁵ , H. J. Tiznado Vazquez ¹ , M.H. Farias ¹ , N. Bogdanchikova ¹ , Ya. Zubavichus ^{5,6} , V. Cortés Corberán ⁷ , R. Zanella ⁸ , A. Pestryakov ²	¹ Centro de Nanociencias y Nanotecnología, UNAM; ² Tomsk Polytech. Univ.; ³ Univ. Autónoma de Baja California; ⁴ Tomsk State Univ.; ⁵ Kurchatov Inst., Moscow; ⁶ Moscow Inst. of Physics and Tech.; ⁷ Inst. of Catalysis and Petroleum Chem. (ICP), Madrid; ⁸ Centro de Ciencias Aplicadas y Desarrollo Tecnológico, UNAM
41	Production of Synthesis-Gas from Methane on Ni-containing Nanosized Catalysts	<u>Svetlana A. Tungatarova</u> ^{1*} , Galina Xanthopoulou ² , Tolky S. Baizhumanova ¹ , Zauresh T. Zheksenbaeva ¹ , Manapkhan Zhumabek ¹ , Kaisar Kassymkan ¹	¹ D.V. Sokolsky Institute of Organic Catalysis and Electrochemistry; ² Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Athens
42	Scale-up of a Sodium Borohydride Reduction Using Process Analytical Technologies	John O'Reilly ¹ , <u>Dom Hebrault</u> ^{2*}	¹ Roche; ² Mettler Toledo
43	Optimization Sampling Reactor for Precise, Repeatable Reaction Chemistry	Jos de Keijzer, <u>Justin Fisher</u> *, Rick Sidler, Pu Sun	Freeslate, Inc.