

heure / time	<b>Lundi 17 mai 2004 / Monday, May 17, 2004</b>		
<b>8:00</b>	<b>Ouverture du Symposium / Symposium Opening</b>		
8:15	<i>Alfred Rouleau A,B: Plénière / Plenary: Molecular Ingredients of Catalytic Selectivity and Catalyst Design. <u>Gabor A. Somorjai</u>, Department of Chemistry and Lawrence Berkeley National Laboratory, University of California, Berkeley</i>		
9:05	<b>Pause / Break</b>		
	<b>(1) Applications of Surface Science in Catalysis I</b> <i>Alfred Rouleau C</i> Chair: Alan E. Nelson, University of Alberta	<b>(2) Catalysis for Fuel Cells and Fuel Processors I</b> <i>Alfred Rouleau A</i> Chair: Raymond Roberge, Énergie Or, Montréal	<b>(3) Catalysis in Green Chemistry I</b> <i>Alfred Rouleau B</i> Chair: Karen Wilson, University of York, UK
9:30	<b>Keynote Lecture</b> - Density Functional Theory Applied to Transition Metal Catalysis: From Resolving Reaction Mechanisms to Identifying Promising Catalysts, <u>Manos Mavrikakis</u> , Department of Chemical & Biological Engineering, University of Wisconsin – Madison, Madison, WI 53706	<b>Keynote Lecture</b> - Non-noble metal catalysts at the cathode of PEM fuel cells: dream or possibility?, <u>Jean-Pol Dodelet</u> , INRS-Énergie, Matériaux et Télécommunications, Varennes, QC, Canada, J3X 1S2	<b>Keynote Lecture</b> - Development of safer chemicals through green processes: catalytic and selective transformation of natural polyols., <u>F. Jerome</u> , I. Adam, G. Kharchafi, Y. Pouilloux, G. Courtois, J. Barrault, Laboratoire de Catalyse en Chimie Organique, UMR6503 CNRS-Université de Poitiers, ESIP, France.
10:10	DTF and TPD Study of Pyridine and Pyrrole Adsorption on Mo(110), <u>Wa'el A. Abdallah</u> , <u>Murray R. Gray</u> and <u>Alan E. Nelson</u> , Department of Chemical & Materials Engineering, University of Alberta, Edmonton, Alberta, Canada T6G 2G6	Challenges on New Catalysts development for the Oxygen Reduction Reaction for PEFC Applications, <u>O. Savadogo</u> , Laboratoire d'Électrochimie et de Matériaux Énergétiques, Ecole Polytechnique de Montreal, C.P. 6079, Succ. Centre-ville, Montreal, QC, H3C 3A7, Canada	Approaches to the catalytic hydrogenation and hydrogenolysis of carbohydrate polyols to $\alpha,\omega$ -diols. <u>Marcel Schlaf</u> , <u>Zhi Xie</u> , Department of Chemistry & Biochemistry, (GWC) <sup>2</sup> , University of Guelph, Guelph, Ontario, Canada, N1G 2W1
10:35	Fast XPS Studies of Surface Catalysed Reactions. <u>Adam F. Lee</u> , Department of Chemistry, University of York, York YO10 5DD, UK	Nickel / Conducting Polymer Electrocatalysts For Hydrogen Evolution in an Acidic Medium. <u>Elisa Navarro Flores</u> , <u>Zhiwen Chong</u> and <u>Sasha Omanovic</u> Dept. of Chemical Engineering, McGill University, 3610 University Str., Montreal, QC, H3A 2B2, Canada	A New Green Catalyst : Chitosan-Silica Hybrids Microspheres, <u>Karine Molvinger</u> , <u>Françoise Quignard</u> , <u>Daniel Brunel</u> , Laboratoire de Matériaux Catalytiques et Catalyse en Chimie Organique UMR5618-CNRS-ENSCM, France
11:00	Surface Active Carbon and Hydrocarbon Chain Growth in Cobalt-Catalyzed Fischer-Tropsch Synthesis, <u>Christopher J. Bertole</u> <sup>1,3</sup> , <u>Gabor Kiss</u> <sup>2</sup> , <u>Charles A. Mims</u> <sup>1, *1</sup> Department of Chemical Eng. & Applied Chem, Cormetech, Inc Durham, NC 27712, USA, <sup>2</sup> ExxonMobil Research & Eng. Company, Annandale, NJ 08801, USA	Preparation and Characterization of Ni-Al <sub>2</sub> O <sub>3</sub> Catalysts for Reforming of Methane, <u>Guohui Li</u> and <u>Josephine M. Hill</u> , Department of Chemical and Petroleum Engineering, University of Calgary, 2500 University Drive, N.W. Calgary, Alberta T2N 1N4	Alginate Microspheres as Encapsulating Media for Catalysts, <u>Romain Valentin</u> , <u>Karine Molvinger</u> , and <u>Françoise Quignard</u> , Laboratoire de Matériaux Catalytiques et Catalyse en Chimie Organique. UMR5618-CNRS-ENSCM, 8 rue de l'Ecole Normale, 34296 Montpellier Cedex 5, France
11:25	A model catalyst with selectivity controllable functions: effects of acoustic wave resonance oscillation on ethanol decomposition over Ag and AgAu alloy catalysts, <u>N. Saito</u> , <u>H. Nishiyama</u> , <u>Y. Yukawa</u> , <u>Y. Sato</u> , and <u>Y. Inoue</u> , Department of Chemistry, Nagoka University of Technology, Nagaoka 940-2188, Japan	Water gas shift and preferential oxidation processes for low temperature fuel cell grade H <sub>2</sub> production over the nanostructured Cu <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>2-y</sub> catalyst, <u>Stanko Hočevar</u> <sup>a</sup> , <u>Gregor Sedmak</u> <sup>a,s</sup> , <u>Henrik Kušar</u> <sup>a</sup> , and <u>Janez Levec</u> <sup>a,b</sup> , <sup>a</sup> National Institute of Chemistry, Hajdrihova 19, P.O.Box 660, SI-1000 Ljubljana, Slovenia, <sup>b</sup> University of Ljubljana, Faculty of Chemistry and Chemical Technology, Aškerčeva 5, Ljubljana, Slovenia	Development of electrodes for in-situ regeneration of NADH : the kinetics of electrochemical reduction of NAD <sup>+</sup> on Ru-modified glassy carbon electrode, <u>Sasha Omanovic</u> , <u>Felise Man</u> and <u>Amir Azem</u> , Department of Chemical Engineering, McGill University, 3610 University Street, Montreal, Canada, QC H3A 2B2
<b>11:50</b>	<b>Pause du midi / Lunch Break</b>		

<b>Lundi 17 mai 2004 / Monday, May 17, 2004</b>			
heure / time	<b>(1) Applications of Surface Science in Catalysis II</b> <i>Alfred Rouleau C</i> Chair: Adam F. Lee, University of York, UK	<b>(2) Catalysis for Fuel Cells and Fuel Processors II</b> <i>Alfred Rouleau A</i> Chair: Bill Adams, Estco Battery Management, Ottawa	<b>(3) Catalysis in Green Chemistry II</b> <i>Alfred Rouleau B</i> Chair: Marcel Schlaf, University of Guelph, Guelph, ON
13:15	<b>Keynote Lecture</b> - Carbide and Phosphide Hydrotreating Catalysts: Real Systems and Single Crystal Models, <u>S. Ted Oyama</u> , <i>Department of Chemical Engineering, Virginia Tech, Blacksburg, VA 24061</i>	<b>Keynote Lecture</b> - Fuel Processing for Fuel Cells: Can Catalysis Save the Day?, <u>Brant A. Peppley</u> , <i>Department of Chemistry and Chemical Engineering, Royal Military College of Canada, Kingston, Ontario K7K 7B4</i>	<b>Keynote Lecture</b> - Green Solvents for Catalysis From Molecular Understanding to Process Design, <u>Walter Leitner</u> , <i>Institute for Technical und Macromolekular Chemistry, RWTH Aachen, Germany and Max-Planck-Institute for Coal Research, Mülheim an der Ruhr, Germany</i>
13:55	Theoretical Study of MoS <sub>2</sub> , NiMoS and CoMoS Catalysts by Density-Functional Theory Calculations, <i>Mingyong Sun, John Adjaye*, Alan Nelson, Department of Chemical-Materials Engineering, University of Alberta, Edmonton, AB T6G 2G6 Canada, *Edmonton Research Centre, Syncrude Canada Ltd, Edmonton, AB T6N 1H4 Canada</i>	Optimization of Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts for Hydrogen Production by Partial Oxidation of Gasoline, <u>H. H. Ibrahim</u> and R. O. Idem*, <i>Process &amp; Petroleum Systems Engineering Laboratory, Faculty of Engineering, University of Regina, 3737 Wascana Parkway, Regina, SK., Canada S4S 0A2</i>	Developing Catalytic C-C Bond Formations in Water, <u>Xiao-Quan Yao</u> and <u>Chao-Jun Li</u> , <i>Department of Chemistry, McGill University, 801 Sherbrooke St. West, Montreal, QC H3A 2K6, Canada</i>
14:20	Metal-adsorbate double bonds on -Mo <sub>2</sub> C: preparation, spectroscopy and reactivity of surface oxo and alkylidene groups, <i>M. Siaj, C. Maltais, H. Oudghiri-Hassani, P. H. McBreen, Département de chimie, Université Laval, Québec, Canada, G1K 7P4</i>	Dry reforming of bio-ethanol to produce SOFC fuel, <u>Karine de Oliveira-Vigier</u> , <i>Nicolas Abatzoglou, François Gitzhofer, Université de Sherbrooke, Department of Chemical Engineering, Canada</i>	Application of Phosphonium Ionic Liquids to Multi-Phase Biocatalysis, <u>M. Douglas Baumann</u> <sup>1,2</sup> , <u>Andrew Daugulis</u> <sup>1</sup> , <u>Philip Jessop</u> <sup>2</sup> ; <sup>1</sup> <i>Department of Chemical Engineering, Queen's University, Kingston, ON K7L 3N6, Canada;</i> <sup>2</sup> <i>Department of Chemistry, Queen's University, Kingston, ON K7L 3N6, Canada.</i>
14:45		Steam Reforming of Nonpurified Ethanol, <u>Abayomi Akande</u> , <u>Raphael Idem*</u> and <u>Ajay Dalai</u> <sup>+</sup> , <i>*Process System Engineering Laboratory, Faculty of Engineering, University of Regina, 3737, Wascana Parkway, Regina, SK., Canada, S4S 0A2, +Department of Chem Eng, University of Saskatchewan Saskatoon,</i>	Recycling of Chiral Homogeneous Catalysts using Tunable Solvents, <u>Colin A. Thomas</u> <sup>1</sup> , <u>Pamela Pollet</u> , <u>Jason P. Hallett</u> , <u>Rebecca S. Jones</u> , <u>Chris Ablan</u> , <u>Philip G. Jessop</u> , <u>Charles A. Eckert</u> , and <u>Charles L. Liotta</u> , <sup>1</sup> <i>Georgia Institute of Technology, School of Chemistry and Biochemistry</i>
15:10	<b>Pause / break</b>		
15:30	Isotope Transient Studies of Oxygen Permeation Through a Dense La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> Membrane, <i>Linjie Hu, Charles A. Mims, Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto ON M5S 3E5</i>	Low temperature production of hydrogen from glycerol and sugars, <u>Jacques Monnier</u> , <u>Guy Tourigny</u> , <u>Hardi Sulimma</u> , <u>Luc Pelletier</u> , <i>CANMET Energy Technology Centre – Ottawa, Natural resources Canada, 1 Haanel Drive, Ottawa, Ontario, K1A 1M1 Canada</i>	“Green” Hydrogenation Technique for High Performance Elastomers –Fundamental Investigation for Hydrogenation of Diene-Based Polymers in a Supercritical Fluid, <u>Qinmin Pan</u> , <u>Garry L. Rempel</u> , <i>Department of Chemical Engineering, University of Waterloo, Waterloo, ON, N2L 3G1, Canada</i>
15:55	CLS and its Applications in Catalysis Research in Canada: Involvement and Collaboration, <u>Hui Wang</u> , <i>Department of Chemical Engineering, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 5C5</i>	Rapid Production of Synthesis Gas from Methane at Short Contact Times: Experimental and Numerical Transient Species Profiles, <u>C.A. Leclerc</u> <sup>a,b</sup> , <u>K.A. Williams</u> <sup>b</sup> , and <u>L.D. Schmid</u> <sup>b</sup> , <sup>a</sup> <i>Department of Chem. Eng., McGill University, Montreal, Canada,</i> <sup>b</sup> <i>Department of Chem. Eng. and Materials Science, University of Minnesota, Minneapolis, MN, USA</i>	New Green Solvents for Homogeneous Catalysis, <i>Philip Jessop, David Heldebrant, Yoon-Seo Uh, Department of Chemistry, Queen's University, Kingston, ON K7L 3N6, Canada</i>
16:30	<i>Alfred Rouleau A</i> : Assemblée générale de la Division de Catalyse / General Meeting of the Catalysis Division		
17:00-20:30	<i>Hospitalité</i> : Présentations par affiches / Poster session		

heure / time	Mardi 18 mai 2004 / Tuesday, May 18, 2004		
8:15	Alfred Rouleau A,B: <b>Plénière / Plenary: Bridges between heterogeneous and homogeneous catalysis. The case of single-site and multiple-site olefin polymerization catalysts</b> , <b>Tobin J. Marks</b> , Department of Chemistry, Northwestern University, Evanston, IL 60208-3113		
9:05	<b>Pause / Break</b>		
	<b>(4) Catalytic Polymerization Reactions I</b> Alfred Rouleau A Chair: Davit Zargarian, Université de Montréal	<b>(2) Catalysis for Fuel Cells and Fuel Processors III</b> Alfred Rouleau B Chair: Wojtek Halliop, Fuel Cell Technologies, Kingston	<b>(5) Oxidation Reactions</b> Alfred Rouleau C Chair: Jamal Chaouki, École Polytechnique, Montréal
9:30	<b>Keynote Lecture</b> - Isobutene polymerization using a chelating diborane: A revolutionary approach to the synthesis of poly(iso-butene)?, <b>Scott Collins</b> , <sup>*a</sup> Stewart P. Lewis, <sup>a</sup> Nicholas J. Taylor, <sup>b</sup> Warren E. Piers, <sup>c</sup> Joseph P. Kennedy <sup>a</sup> , <sup>a</sup> Dept. of Polymer Science, University of Akron; <sup>b</sup> Dept. of Chemistry, University of Waterloo; <sup>c</sup> University of Calgary	<b>Keynote Lecture</b> - Progress in the electrocatalysis of solid oxide fuel cell reactions: Charging towards the future, <b>Viola I. Birss</b> , Department of Chemistry, University of Calgary, 2500 University Drive, N.W.Calgary, Alberta T2N 1N4	
10:10	Syntheses, Structures and Applications of New Weakly Coordinating Anions to Catalytic Olefin Polymerization. <b>Neda Bavarian</b> and Michael C. Baird*, Department of Chemistry, Queen's University, Kingston, ON K7L 3N6, Canada	Size-controlled synthesis of nano-sized PtRu catalysts and their application as fuel cell catalysts, <b>C. Bock</b> and B. MacDougall, National Research Council Canada, Institute for Chemical Process and Environmental Technology, Ottawa, ON, K1A 0R6	A new approach to interpret the promoter effect in alcohol oxidation over platinum and palladium, <b>C. Keresszegi</b> , <b>T. Mallat</b> , J.-D. Grunwaldt, A. Baiker, Institute for Chemical and Bioengineering, Swiss Federal Institute of Technology, ETH-Zurich, CH-8093 Switzerland
10:35	Catalytic Hydrogenation of Natural Rubber in the Presence of OsHCl(CO)(O <sub>2</sub> )(PCy <sub>3</sub> ) <sub>2</sub> , <b>Napida Hinchiranan</b> <sup>1</sup> , Pattarapan Prasassarakich <sup>1</sup> and Garry L. Rempel <sup>2</sup> , <sup>1</sup> Department of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok 10330, Thailand; <sup>2</sup> Department of Chemical Engineering, University of Waterloo.	Pt/Sn supported catalysts for the direct oxidation of ethanol in a direct alcohol fuel cell (PEMFC), <b>F. Vigier</b> <sup>1</sup> , <b>C. Coutanceau</b> <sup>2</sup> , <b>E.M. Belgsir</b> <sup>2</sup> , <b>C. Lamy</b> <sup>2</sup> , <sup>1</sup> Université de Sherbrooke, 2500 blvd de l'Université, Sherbrooke, QC J1K 2R1, Canada, <sup>2</sup> Laboratoire de Catalyse en Chimie Organique, Equipe Electrocatalyse, UMR CNRS 6503, Université de Poitiers, Poitiers, France	"State-by-State Transient Screening" of VPO catalyst in Selective Hydrocarbon Oxidation. (From "Model-Free" Kinetic Characterization to the Detailed Catalytic Mechanism.), <b>Gregory S. Yablonsky</b> , <b>Sergiy O. Shekhtman</b> , <b>John T. Gleaves</b> , <b>Rebecca R. Fushim</b> , Department of Chemical Engineering, Washington University, Box 1198, One Brookings Dr., St. Louis, MO 63130.
11:00	Use of Coordination Catalysts for Preparation of Hybrid Polyethylene-Montmorillonite Nanocomposites, <b>Fabio F. Mota</b> <sup>1,2</sup> , <b>Leonardo C. Simon</b> <sup>1</sup> , <b>João B. P. Soares</b> <sup>1</sup> , <b>Oswaldo L. Casagrande Jr.</b> <sup>2</sup> , <sup>1</sup> Department of Chemical Engineering, University of Waterloo, 200 University Av. W., Waterloo, ON, Canada, N2L 3G1, <sup>2</sup> Institute of Chemistry, Federal University of Rio Grande do Sul, Av. Bento Gonçalves 9500, Porto Alegre, RS, Brazil	Adatom Electrocatalysts for Direct Alcohol Fuel Cells, <b>Steven H. Bergens</b> , <b>Yue Xing</b> , <b>Christopher E. Lee</b> , <b>Dianxue Cao</b> , <b>Rongbing Du</b> , University of Alberta, Department of Chemistry, Edmonton, Canada, AB T6G 2G2	Production of Ethylene by catalytic Partial Oxidation of Ethane in the Presence of H <sub>2</sub> S, <b>Peter D. Clark</b> and <b>Shunlan Liu</b> , Alberta Sulfur Research Ltd, Department of Chemistry, University of Calgary, 2500 University Drive N.W., Calgary, AB, Canada T2N 1N4
11:25	Identification and Quantification of Metal-Polymeryl Groups during Olefin Polymerization by Metallocene Catalysts. <b>Mihaela Vatamanu</b> , <b>Britta Boden</b> and <b>Michael C. Baird</b> *, Department of Chemistry, Queen's University, Kingston, ON K7L 3N6, Canada	Modeling of a direct hydrocarbon fuel cell, <b>G. Psofogiannakis</b> <sup>a,d</sup> , <b>Y. Bourgaoul</b> <sup>b</sup> , <b>B.Conway</b> <sup>c,d</sup> , and <b>M.Ternan</b> <sup>e</sup> , The University of Ottawa, <sup>a</sup> Department of Chemical Engineering, <sup>b</sup> Department of Mathematics and Statistics, <sup>c</sup> Department of Chemistry and <sup>d</sup> Centre for Catalysis Research and Innovation, <sup>e</sup> EnPross Inc., 147 Banning Road, Ottawa, Ontario, K2L 1C5, Canada	Effect of Additives on the Performance of V <sub>2</sub> O <sub>5</sub> /ZrO <sub>2</sub> Catalyst for Oxidative Dehydrogenation of Propane, <b>Mahuya De</b> and <b>Deepak Kunzru</b> , Dept. of Chemical Engineering, Indian Institute of Technology, Kanpur, India.
11:50	<b>Pause du midi / Lunch Break</b>		

**Mardi 18 mai 2004 / Tuesday May 18, 2004**

13:15	<i>Alfred Rouleau A,B: Ciapetta Lecture: Highly Active Homogeneous Catalysts for Olefin Polymerization: Molecular Design, Optimization and Utilization, <u>Douglas W. Stephan</u>, Department of Chemistry &amp; Biochemistry, University of Windsor, Windsor, ON, N9B 3P4</i>		
14:05	<b>Pause / Break</b>		
heure / time	<b>(4) Catalysis in Polymerization Reactions II</b> <i>Alfred Rouleau A</i> Chair: Leonardo Simon, University of Waterloo, ON	<b>(3) Catalysis in Green Chemistry III</b> <i>Alfred Rouleau B</i> Chair: Sasha Omanovic, McGill University, Montréal	<b>(6) Photocatalysis</b> <i>Alfred Rouleau C</i> Chair: Dimitrios Berk, McGill University, Montréal
14:30	<b>Keynote Lecture</b> - The Discovery of New Stereospecific Polypropylene catalysts Using High-Throughput Techniques. <sup>1</sup> <i>Thomas R. Bousсие, Gary M. Diamond, Christopher Goh, Keith A. Hall, Anne LaPointe, Margarete Leclerc, James Longmire, <u>Vince Murphy</u>, Robert K. Rosen, James A. W. Shoemaker, Howard Turner, and James C. Stevens<sup>†</sup>; <sup>1</sup>Symyx Technologies, Santa Clara, California, USA; <sup>†</sup>The Dow Chemical Company, Freeport, Texas, U.S.A.</i>	<i>starts at 14:45</i> Structure Reactivity Relationships in the Acidity of Sulphated Zirconia Catalysts for $\alpha$ -Pinene Isomerisation. <i><u>Karen Wilson</u><sup>1</sup>, Muriel A. Ecomier<sup>2</sup>, Adam F. Lee<sup>1,2</sup>, <sup>1</sup>Dept. of Chemistry, University of York, York, YO10 5DD, UK. <sup>2</sup>Dept. of Chemistry, University of Hull, Hull, HU6 7RX, UK.</i>	<b>Keynote Lecture</b> - Pore-Wall Chemistry and Photocatalytic Activity of Mesoporous Titanium Dioxide Molecular Sieve Thin Films. <i>Xinchen Wang, <u>Jimmy C. Yu</u>, Department of Chemistry &amp; Environmental Science Programme, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong</i>
15:10	The influence of "activated" magnesium chloride on Ziegler-Natta catalyst performance in a high temperature solution polymerization process, <i>Q. Wang, Z. Zhang, L. Fan, G. Yamashita, M. Cossar and J. The, NOVA Chemicals Corporation</i>	Self-Neutralizing Acid Catalysts from CO <sub>2</sub> , <i>Ross R. <u>Weikel</u>, Charles L. Liotta, Charles A. Eckert, Schools of Chemical and Biomolecular Engineering and Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, Georgia 30332-0100</i>	Effect of hydrogen peroxide on the photocatalytic degradation of methyl <i>tert</i> -butyl ether (MTBE) in water. <i><u>Yujing Zang</u> and Ramin R. Farnood, Department of Chemical Engineering &amp; Applied Chemistry, University of Toronto, Toronto, Canada</i>
15:35	A Kinetics Study of $\beta$ -Hydrogen and $\beta$ -Methyl Elimination Reactions of the Metallocene Cations [Cp <sub>2</sub> ZrR] <sup>+</sup> (Cp' = substituted cyclopentadienyl; R = neopentyl, <i>sec</i> -butyl, <i>iso</i> -butyl). <i><u>Ping Yang</u> and Michael C. Baird*, Department of Chemistry, Queen's University, Kingston, ON K7L 3N6, Canada</i>	New Wetproofed Catalysts for Hydrogen Isotope Exchange in Heavy Water Production, <i>Jintong Li, S. Suppiah, L.L. Deschenes, K.J. Kutchcoskie, J.F. Mattie, T.J.Shultz and A.W. Tripple, AECL Hydrogen Isotopes Technology Branch, Components &amp; Systems Division, Chalk River Laboratories, Chalk River, ON KOJ 1J0</i>	Photocatalytic activity for water decomposition of RuO <sub>2</sub> -dispersed complex p-block metal oxides with d <sup>10</sup> configuration, <i>H. Kadowaki, J. Sato, H. Kobayashi<sup>#</sup>, N. Saito, H. Nishiyama and Y. Inoue*, Department of Chemistry, Nagaoka University of Technology, Nagaoka 940-2188, Japan, <sup>#</sup>Dept. of Chem. and Bioscience, Kurashiki University of Science and The Arts, Kurashiki 712-8505, Japan</i>
16:00	Aluminum Chloride Grafted MMS's as alkylation Catalyst, <i>D. <u>Dubé</u><sup>a</sup>, S. Royer<sup>a</sup>, D. Trong On<sup>a</sup>, F. Béland<sup>b</sup>, S. Kaliaguine<sup>a*</sup>, <sup>a</sup>Department of Chem. Eng., Laval University, Ste Foy, Quebec City G1K 7P4, Canada; <sup>b</sup>Silicycle Inc. 1200 Ave St-Jean-Baptiste, Suite 114, Quebec City, Quebec G2E 5E8 Canada</i>	Shape selective ethylation of biphenyl to 4,4'-diethylbiphenyl over different zeolites: catalytic activity and molecular modeling studies, <i><u>Suresh B. Waghmode</u>, S. Watanabe, Y. Kubota, and Y. Sugi, Department of Materials Science and Technology Faculty of Engineering, Gifu University, Gifu 501-1193, Japan</i>	Visible-light-Active TiO <sub>2</sub> -based Photocatalysts Prepared by Spray Pyrolysis Technology, <i><u>Di Li</u>, Hajime Haneda, Naoki Ohashi, Shunichi Hishita, Advanced Materials Laboratory, National Institute for Materials Science (NIMS), 1-1 Namiki, Tsukuba 305-0044, Ibaraki, Japan</i>
16:25	Catalytic Reactivities of Indenyl Nickel Complexes in the Oligomerization and Polymerization of Olefins, <i>Laurent F. Groux, Yaofeng Chen, Daniel Gareau, and <u>Davit Zargarian</u>, Département de chimie, Université de Montréal, Montréal, Québec, Canada H3C 3J7</i>		Photocatalytic oxidation of n-butanol over commercial TiO <sub>2</sub> using fluorescent visible light, <i>J. <u>Kirchnerova</u>, Mara-Lu Herrera-Cohen, C. Guy, D. Klvana, Department of Chemical Engineering, Ecole Polytechnique, P.O. Box 6079, Station Centre-Ville, Montreal, QC H3C 3A7, Canada</i>
18:00 – 21:00	<i>Café Fleuri : Banquet</i>		

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8:15	<b>Alfred Rouleau A,B: 2004 Catalysis Award Lecture: Investigations of Zeolite Molecular Sieve Catalysts and Structure Determinations of their Host / Guest Complexes with Organic Molecules by High Resolution Solid-State NMR Spectroscopy.</b> <b>Colin A. Fyfe</b> ; Darren H. Brouwer; Andrew R. Lewis; J-S. Joseph Lee; Anix C. Diaz; Yi Feng and Hiltrud Grondex, Department of Chemistry, University of British Columbia, Vancouver, B.C., Canada V6T 1Z1		
9:05	<b>Pause / Break</b>		
	<b>(7) Environmental Catalysis I</b> Alfred Rouleau A Chair: Khaled Belkacemi, Université Laval, Québec	<b>(8) Hydroprocessing and Refining I</b> Alfred Rouleau B Chair: Flora T. T. Ng, University of Waterloo	<b>(9) Unsteady Catalytic Processes</b> Alfred Rouleau C Chair: Hristo Sapundjiev, Natural Resources Canada, Varennes, QC
9:30	<b>Keynote Lecture</b> - Environmental Implications of Heterogeneous Catalysis in Green Engineering, <b>Martin A. Abraham</b> , Department of Chemical and Environmental Engineering, University of Toledo, Toledo, OH 43606, USA	<b>starts at 9:45</b> Combined deep hydrogenation and ring opening of poly-aromatic hydrocarbons for diesel quality improvement, <b>Daniel E. Resasco</b> , <sup>a*</sup> <b>Siriporn Jongpatiwut</b> <sup>a</sup> <b>Malee Santikunaporn</b> , <sup>a</sup> <b>Jose E. Herrera</b> , <sup>a</sup> and <b>Walter E. Alvarez</b> , <sup>b</sup> <b>Ed L. Sughrie</b> , <sup>b</sup> and <b>Glenn W. Dodwell</b> , <sup>b</sup> (a) School of Chemical Eng. and Materials Science, University of Oklahoma, (b) ConocoPhillips, Bartlesville Technological Center, Bartlesville, OK, 74004	<b>Keynote Lecture</b> - Synthesis gas as a promising fuel for solving of the ecological problems of city transport and heat production, <b>V. A. Kirillov</b> <sup>*</sup> , <b>O.F. Brizitski</b> <sup>**</sup> , <b>I.V. Ivanov</b> <sup>**</sup> , <b>Boreskov Institute of Catalysis, Novosibirsk, Russia</b> , <b>All-Russia Research Institute of Experimental Physics, Sarov, Russia</b>
10:10	Oxidation of volatile organic compounds (toluene) by combination of a non-thermal plasma and a catalyst, <b>S. Delagrangé</b> , <b>J. Barrault</b> , <b>L. Pinard</b> , <b>J. M. Tatibouët</b> , Laboratoire de Catalyse en Chimie Organique, UMR CNRS 6503, Université de Poitiers, Ecole Supérieure d'Ingénieurs de Poitiers, 40, Avenue du Recteur Pineau, 86022 Poitiers cedex (France)	Selective ring opening of naphthenes over bifunctional Pt/HBEA zeolite catalysts, <b>Philippe Yannic</b> <sup>1</sup> , <b>Jean-Louis Lemberton</b> <sup>1</sup> , <b>Michel Guisnet</b> <sup>1</sup> , <b>Sylvie Lacombe</b> <sup>2</sup> and <b>Christine Travers</b> <sup>2</sup> , <sup>1</sup> Laboratoire de Catalyse en Chimie Organique, Université de Poitiers, France, <sup>2</sup> Institut Français du Pétrole, France	Parametric Sensitivity of a Catalytic Reverse Flow Reactor, <b>A. Kushwaha</b> <sup>1</sup> , <b>R.E. Hayes</b> <sup>1</sup> , <b>M. Poirier</b> <sup>2</sup> and <b>H. Sapoundjiev</b> <sup>2</sup> , <sup>1</sup> Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Alberta, Canada, T6G 2G6, <sup>2</sup> Natural Resources Canada, CANMET, 1615 Lionel-Boulet Blvd., P.O. Box 4800, Varennes, Quebec, Canada, J3X 1S6
10:35	Hydrogen sulphide scrubbing using CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> composite oxides, <b>C. F. Petre</b> , <b>F. Larachi</b> , Chemical Engineering Department, Laval University, QC, Canada, G1K 7P4	Hydrodenitrogenation and Hydrodesulfurization of Heavy Gas Oil using NiMo/Al <sub>2</sub> O <sub>3</sub> Catalyst Containing Boron: Experimental and Kinetic Studies, <b>Deena Ferdous</b> <sup>*</sup> , <b>Ajay K. Dalai</b> , <b>John Adjaya</b> <sup>**</sup> , Department of Chem. Eng., Catalysis and Chemical Reaction Engineering Laboratories, University of Saskatchewan, Saskatoon, S7N 5C5, Canada, <sup>**</sup> Syncrude Canada Ltd. Edmonton Research Center, T6N 1H4, Canada	Catalytic Decomposition of Methane for Hydrogen Production, <b>Rahman, M.</b> ; <b>Croiset, E.</b> ; <b>Hudgins, R.R.</b> , Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1
11:00	Synthesis Condition Effect on the Properties of LaCoO <sub>3</sub> Perovskites, <b>S. Royer</b> , <b>F. Bérubé</b> and <b>S. Kaliaguine</b> – Department of Chemical Engineering, Laval University, Ste Foy, Québec G1K 7P4, Canada	Influence of Nitrogen Compounds on Hydrodesulfurization over NiMo/Al <sub>2</sub> O <sub>3</sub> Catalyst, <b>Hong Yang</b> , <b>Jinwen Chen</b> and <b>Zbigniew Ring</b> , National Centre for Upgrading Technology, Devon, Alberta, Canada	Cyclically Operated Separating Reactors – An Assessment, <b>P.L. Silveston</b> , Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, Canada
11:25	Catalytic destruction of dichloromethane over Pt supported catalysts. Influence of the support, <b>L. Pinard</b> , <b>P. Magnoux</b> , <b>J. Mijoin</b> and <b>M. Guisnet</b> , Laboratoire de Catalyse en Chimie Organique, UMR CNRS 350, Université de Poitiers, 40, avenue du Recteur Pineau, 86022 Cedex, France	Catalytic Hydrocracking Activity of Exfoliated MoS <sub>2</sub> , <b>Ching Thian Tye</b> and <b>Kevin J. Smith</b> , Department of Chemical & Biological Engineering, University of British Columbia, 2216 Main Mall, Vancouver, British Columbia, V6T 1Z4 Canada.	Evolution of Temperature During the Catalytic Combustion of Methane in a Flow Reversal Reactor with Heat Extraction, <b>Michel Poirier</b> <sup>1</sup> , <b>Hristo Sapoundjiev</b> <sup>1</sup> , <b>Robert E. Hayes</b> <sup>2</sup> , <sup>1</sup> Natural Resources Canada, CETC-Varennes, 1615 Lionel-Boulet Blvd., P.O. Box 4800, Varennes, Quebec, J3X 1S6, Canada, <sup>2</sup> Department of Chem. and Materials Eng., University of Alberta, Edmonton, Alb, Canada
11:50	<b>Pause du midi / Lunch Break</b>		

**Mercredi 19 mai 2004 / Wednesday May 19, 2004**

heure / time	<p align="center"><b>(7) Environmental catalysis II</b>  <i>Alfred Rouleau A</i>                      Chair: Robert E. Hayes, University of Alberta</p>	<p align="center"><b>(8) Hydroprocessing and refining II</b>  <i>Alfred Rouleau B</i>                      Chair: Raymond Le Van Mao, Concordia University</p>	<p align="center"><b>(10) Other Topics in Catalysis</b>  <i>Alfred Rouleau C</i>                      Chair: Serge Kaliaguine, Université Laval, Québec</p>
13:15	<p><b>Keynote Lecture</b> - The Role of Ceria and Other Rare Earth Oxides in the Development of Catalysts for Environmental Applications, <i>Alessandro Trovarelli</i>, Dipartimento di Scienze e Tecnologie Chimiche, Università di Udine, via Cotonificio 108, 33100 Udine, Italy</p>	<p><b>starts at 13:30</b>                      Feedstock Quality Effect on the Performance of an Industrial Tail-End ARDS Catalyst in Residue Hydrotreating. <i>M. Al-Marri and A. Marafi</i>, Petroleum Refining Department. Kuwait Institute for Scientific Research. P.O. Box: 24885. 13109, Safat. Kuwait</p>	<p><b>starts at 13:30</b>                      CO<sub>2</sub> reforming of methane over LaNiO<sub>3</sub> as starting material Influence of reaction conditions, <i>Germán Sierra Gallego<sup>a</sup>, Fanor Mondragón<sup>a</sup>, Catherine Batiot-Dupeyrat<sup>b</sup>, Joël Barrault<sup>b</sup> and Jean-Michel Tatibouët<sup>b</sup></i>, <sup>a</sup> Instituto de Química, Universidad de Antioquia, AA 1226, Medellín, Colombia, <sup>b</sup> Laboratoire de Catalyse en Chimie Organique, UMR CNRS 6503, Université de Poitiers-Ecole Supérieure d'Ingénieurs de Poitiers, 40, avenue du Recteur Pineau, 86022 Poitiers cedex (France)</p>
13:55	<p>Anionic vacancies in Zr-Ce-Pr-O sol-gel oxides, <i>S. Rossignol, C. Kappenstein, D. Duprez</i>, University of Poitiers, LACCO UMR 6503, Laboratoire de Catalyse par les Métaux, 40 Avenue du Recteur Pineau, F-86022 Poitiers Cedex, France</p>	<p>HDN of Quinoline Using Mo-based Dispersed Catalysts in an Emulsion, <i>Roy Z. Lee, Mingsen Zhang and Flora T.T. Ng</i>, Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, Canada, N2L 3G1</p>	<p>Non-oxidative Dehydrogenation and Aromatization of Methane over Molybdenum-based HZSM-5 Catalyst: Mechanism and Kinetic Modeling, <i>Maria C. Iliuta, Ion Iliuta, Faïçal Larachi and Bernard P. A. Grandjean</i>, Department of Chemical Engineering &amp; CERPIC, Laval University, Québec, Canada G1K 7P4</p>
14:20	<p>Washcoat Geometry Effects on Mass Transfer in Catalytic Monoliths, <i>R.E. Hayes<sup>1</sup>, B. Liu<sup>1</sup>, R. Moxom<sup>1</sup> and M. Votsmeier<sup>2</sup></i>, <sup>1</sup>Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Alberta, Canada, T6G 2G6, <sup>2</sup>Umicore, Automotive Catalysis Division, Research and Development, Hanau, Germany</p>	<p>New Process for the Selective Deep Catalytic Cracking (SDCC) of Petroleum Naphthas and Gas Oils, <i>Raymond LE VAN MAO, Nabil AL-YASSIR and Ngoc Thanh VU</i>, Industrial Catalysis Laboratory and Laboratories for Inorganic Materials, Department of Chemistry and Biochemistry, Concordia University, Loyola Campus, SP275.09, Montreal (Quebec) H4B 1R6 Canada</p>	<p>Hydrogenation of Vegetable Oils with Minimum <i>trans</i> and Saturated Fatty acid Formation over Novel Generation of Pd-Catalysts, <i>Amira Boulmerka<sup>1</sup>, Joseph Arul<sup>1</sup> and Khaled Belkacemi<sup>2</sup></i>, <sup>1</sup>Department of Food Science and Nutrition; <sup>2</sup>Department of Soil Science and Agri-Food Engineering, Université Laval, Sainte-Foy, Canada,</p>
14:45	<p>VOC Catalytic Combustion in an Auto-Cyclic Reactor, <i>Danilo Klvana, Jamal Chaouki, Christophe Guy, Jitka Kirchnerova</i>, Department of Chemical Engineering, Ecole Polytechnique, P.O. Box 6079, Station Centre-ville, Montreal, QC, H3C 3A7</p>	<p>Catalytic Isomerization and Cracking of Hexane over BEA and Ce-BEA, <i>Pusparatu, Y. Kubota, Y. Nishimura<sup>1</sup>, Y. Sugi</i>, Department of Materials Science &amp; Technology Faculty of Engineering, Gifu University, Gifu 501-1193, Japan, <sup>1</sup>Center for Cooperative Research, Gifu University, Gifu 501-1193, Japan</p>	<p>Aldol condensation over semicrystalline zeolitic mesoporous UL-ZSM-5 materials, <i>A. Ungureanu<sup>a</sup>, S. Royer<sup>a</sup>, H.V. Thang<sup>a</sup>, D. Trong On<sup>a</sup>, E. Dumitriu<sup>b</sup> and S. Kaliaguine<sup>a</sup></i>, <sup>a</sup>Department of Chemical Engineering, Laval University, Ste Foy, Québec G1K 7P4, Canada; <sup>b</sup>Laboratory of Catalysis, Technical University of Iasi, 71 D. Mangeron, 6600 Iasi, Romania.</p>
15:10	<p>Catalytic Performance and Characterization of Fe-Nb Mixed Oxides for Selective Reduction of SO<sub>2</sub> by Carbon Monoxide, <i>Hee Chul Woo<sup>1</sup>, Jong Kook Chung<sup>1</sup>, Seok Hee Lee<sup>1</sup>, Jae Kee Cheon<sup>1</sup>, and Dae Won Park<sup>2</sup></i>, <sup>1</sup>Division of Chemical Engineering, Pukyong National University, Pusan 608-739, Korea, <sup>2</sup>Division of Chemical Engineering, Pusan National University, Korea</p>	<p>A high accessibility FCC catalyst based on synthesized AIOOH using CH<sub>3</sub>CO<sub>2</sub>NH<sub>4</sub> as precipitating agent and hydrothermal aging, <i>R. García de León, M.L. Guzmán C., A. Rodríguez H.</i>, Programa de tratamiento de crudo Maza, Sismas Catalíticos FCC, Instituto Mexicano del Petróleo, Eje central Lázaro Cárdenas No.152, Col. San Bartolo Atephuacan, Apartado Postal 14-805 07730, México D.F.</p>	<p>Synthesis of [Al]-SSZ-24 Zeolite from [Al]-BEA and Its Application to the Isopropylation of Biphenyl, <i>H. Maekawa, A. Ito, Y. Kubota, and Y. Sugi</i>, Department of Materials Science and Technology Faculty of Engineering, Gifu University, Gifu 501-1193, Japan</p>