

**Detailed Technical Program**  
**25<sup>th</sup> Canadian Symposium on Catalysis**

This program is subject to minor alterations.

Room Locations will be added shortly.

**Tuesday, May 8<sup>th</sup>**

2:00-4:00 pm	CLS Tours
4:00-5:00 pm	Registration Start
5:10-6:10 pm	<b>Plenary Lecture:</b> Bert Weckhuysen, <i>University of Utrecht</i> , <b>Hunting for the Hidden Chemistry in Catalysts – Towards a Molecular Movie</b> (R.B. Anderson Award Lecture)
6:10-8:10 pm	Reception

## Wednesday May 9<sup>th</sup>

8:00-8:10	Opening Remarks		
8:10-9:10	<b>Plenary Lecture:</b> Bert Weckhuysen, <i>University of Utrecht</i> , <b>Catalysts Live and Up Close: The Clean Energy Transition</b>		
9:10-9:50	<b>Keynote</b> Flora Ng, <i>University of Waterloo</i> <b>Green Processes for the Production of Sustainable Fuels and Chemicals</b>	<b>Keynote</b> An Ma, <i>PetroChemical Research Institute of PetroChina</i> <b>Application of Molecular Sieve in Petroleum Refining Process</b>	<b>Keynote</b> Johannes Lercher, <i>München/PNNL</i> <b>Realizing bridges between catalysis disciplines – enzyme analogs in porous solids</b>
9:50-10:10	<b>COFFEE BREAK</b>		
	ENVIRONMENTAL	CONVENTIONAL	FUNDAMENTAL
10:10-10:30	<b>C6 Diacids from Homocitric Acid Lactone using Relay Heterogeneous Catalysis in Water</b> T. Baker, University of Ottawa	<b>Skeletal Isomerization of n-Hexane Catalyzed by Superacidic Ionic Liquid at Room Temperature</b> Z. Bai, Fuzhou University	<b>The influence of Hubbard U parameter in simulating adsorption, reactivity, and core level shifts on CuO: A combined theoretical and experimental study</b> K. Bholá, Nanyang Technological University, Singapore
10:30-10:50	<b>Synthesis and characterization of novel mesoporous zeolite H-BEA / H-ZSM-5 composite and their application in MCRs</b> J. Gabla, NIT Surat	<b>Synthesis of zeolite materials with 8 and 10-membered rings and their applications in 1-butene catalytic cracking</b> Z. Li, Petrochemical Research Institute of Petrochina	<b>MD simulation of the copper clusters in the channel of various zeolites</b> Y. Liu, Texas A&M University
10:50-11:10	<b>Thermocatalytic conversion of CO<sub>2</sub> over transition metal carbides: Reverse water gas shift and Sabatier reactions</b> D. Simakov, University of Waterloo	<b>Preparation of Cu-modified ZSM-5 by hydrothermal-impregnation for catalytic cracking of n-hexane</b> L. Zhang, China University of Petroleum	<b>Oxygen Vacancy Energetics as a Descriptor of the Chemical Looping Combustion (CLC) Reaction Kinetics of NiO; A DFT Study</b> N. M. Rasi, University of Calgary

11:10-11:30	<b>Pore development and chemical recycle during petroleum coke activation with KOH and NaOH</b> J. Hill, University of Calgary	<b>Synthesis of SnAlPO4-5 molecular sieve and its application in the catalyst for hydrodesulfurization of dibenzothiophene</b> H. Sun, China University of Petroleum	<b>Theoretical and empirical investigation on Ni-based catalyst structures for olefin polymerization</b> M. Khoshsefat, University of Alberta
11:30-11:50	<b>Petroleum Coke as a Catalyst for Methanol Dehydration</b> M. Hazlett, University of Calgary	<b>Controlled synthesis of c-axis oriented ZSM-5 nanorod aggregates</b> T. Ma, China University of Petroleum	<b>Mechanistic insights into the selective hydrodeoxygenation of glycerol on multifunctional ReOx-Ir catalyst: A combined experimental and computational study</b> S. H. Mushrif, CREATE, Singapore
11:50-12:10	<b>Catalytic Conversion of Waste Plastics into Liquid Fuel over HZSM-5</b> U. Dwivedi, IIT Delhi	<b>Zeolite beta based FCC additives with high isobutylene yield</b> Q. Liu, Petrochemical Research Institute of Petrochina	<b>Thiophene and olefins adsorbed on Ni-Mo-S edge with different amounts of Ni doping: A DFT study</b> M. Zheng, China University of Petroleum
12:10-1:40	<b>LUNCH BREAK</b>		
1:40-2:20	<b>Plenary Lecture:</b> Cathleen Crudden, <i>Queens University</i> , <b>CIC Catalysis Award Lecture</b>		
2:20-3:00	<b>Keynote</b> Matteo Cargnello, <i>Stanford University</i> <b>Understanding and Tuning Catalytic Materials For Methane Activation Using Nanocrystal Precursors</b>	<b>Keynote</b> Jinwen Chen, <i>CanmetEnergy, Alberta</i> <b>Research on Petroleum Catalytic Processes and Technologies at CanmetENERGY – from Conventional Oil to Heavy Oil and Bitumen</b>	<b>Keynote</b> Jeffrey Miller, <i>Purdue University</i> <b>Pt<sub>3</sub>Mn Intermetallic nanoparticle catalysts for Alkane Dehydrogenation</b>
3:00-3:20	<b>COFFEE BREAK</b>		

	ENVIRONMENTAL	CONVENTIONAL	GENERAL
3:20-3:40	<b>Ozone-Assisted Catalytic Oxidation of Acetone on Alumina-Supported Cobalt Oxide: Effect of Cobalt Loading</b> M. Aghbolaghy, University of Saskatchewan	<b>Solid base Catalyst Screening and Absorption and desorption kinetics on a bench-scale pilot plant for Catalyst-Amine-based Post-Combustion CO<sub>2</sub> capture</b> D. Afari, University of Regina	<b>Optimization of Fischer-Tropsch reaction conditions using the plasma synthesized Co/C catalyst</b> J. Aluha, University of Sherbrooke
3:40-4:00	<b>Palladium Nanoparticles-enhanced Photocatalysis under Visible light</b> X. Meng, University of Ottawa	<b>Nanosized mesoporous Ni/Al<sub>2</sub>O<sub>3</sub> catalysts for CO methanation in a slurry-bed reactor</b> Z. Li, Taiyuan University of Technology	<b>Simple and green route for preparation of tin phosphate catalysts by solid-state grinding for dehydration of glucose to 5-hydroxymethylfurfural (HMF)</b> C. Xu, University of Western Ontario
4:00-4:20	<b>Autonomous Soot-Consuming Catalytic Nanoparticles</b> B. Li, University of Waterloo	<b>Transition of Mo<sub>2</sub>C/carbon catalyst in HDS of dibenzothiophene: the effect of different particle sizes, CHR temperatures and promoters</b> H. Wang, University of British Columbia	<b>The Selective Hydrogenation of Nitrile Butadiene Rubber via a heterogeneous catalytic process by using Macroporous Hollow Silica supported Pd Catalysts</b> P. Yuan, Fuzhou University
4:20-4:40	<b>Preparation of ZnS/AC Mercury Removal Sorbent Using High Sulfur Petroleum Coke And Zinc Nitrate</b> J. Wang, Taiyaun University of Technology	<b>Effects of varying catalyst sulfidation time and fine particle deposition on the hydrotreatment of heavy gas oil</b> P. Misra, University of Saskatchewan	<b>Reaction mechanism of phosphorus modification on extruded ZSM-5 catalyst</b> Y. Song, China University of Petroleum
4:40-5:00	<b>Modification of NaY sorbent and its effects on thiophene removal from coke oven gas</b> J. Liao, Taiyaun University of Technology	<b>Effect of Nitrogen-doped Carbon Coating on the Performance of Fe-based Catalyst for DBT Hydrodesulfurization</b> L. Li, China University of Petroleum	<b>Synthesis and characterization of chicken eggshell based heterogeneous novel alkali catalyst for the upgradation of bio-oil to biodiesel</b> P. Mondal, IIT Roorkee

5:00-6:00	<b>Catalysis Division, Annual General Meeting</b>
6:00-8:00	<b>POSTER SESSION</b>

<b>Order # (Session)</b>	<b>Poster Title</b>	<b>Presenter/Affiliation</b>
<b>1 (SYN)</b>	Activation of Carbon Supported Silver Nanoclusters for Epoxidation Reactions	Kazeem O. Sulaiman/ <i>U Saskatchewan</i>
<b>2 (REN)</b>	Band-gap Narrowing and Electrochemical Properties in Reduced and N-doped Anodic TiO <sub>2</sub> Nanotube Arrays	Shahab Khameneh- Asl/ <i>U Tabriz</i>
<b>3 (NOV)</b>	Bridge Effect on Dinuclear $\alpha$ -diimine Ni-based Catalysts for Polymerization of Ethylene	Mostafa Khoshsefat/ <i>University of Alberta</i>
<b>4 (CON)</b>	Catalyst Graded System Optimization for Deep Residue Hydrotreatment	Zhiyuan Zhou/ <i>Research Inst PetroChina</i>
<b>5 (REN)</b>	Catalytic Conversion of Canola Biodiesel into Estolides via Epoxidation Route: Optimization and Physico-chemical Characterization Study	Venu Babu Borugadda/ <i>U Saskatchewan</i>
<b>6 (SYN)</b>	Characterization of ALD Over-coated ZnO-Cu/SiO <sub>2</sub> Catalyst for CO <sub>2</sub> Hydrogenation to Methanol	Jinglin Gao/ <i>U Saskatchewan</i>
<b>7 (ENV)</b>	Cobalt Oxide as a Support for Pd-catalyzed Wet Methane Combustion	Somaye Nasr/ <i>U Alberta</i>
<b>8 (SYN)</b>	Co-doping Nitrogen/Sulfur through a Solid-State Reaction to Enhance the Electrochemical Performance of Anatase TiO <sub>2</sub> Nanoparticles as a Sodium-Ion Battery Anode	Hanqing Zhao/ <i>Taiyuan U of Technology</i>
<b>9 (NOV)</b>	Combining Au <sub>25</sub> (SR) <sub>18</sub> Clusters with Titania for the Efficient Photodegradation of Methyl Orange Dye under Visible Light Illumination	Brandon Chivers/ <i>U Saskatchewan</i>
<b>10(ENV)</b>	Effect of pH on the Photodegradation Efficiency of Fe-doped TiO <sub>2</sub>	Mohammad Nazari/ <i>York U</i>
<b>11(ENV)</b>	Few-layer MoS <sub>2</sub> nanosheets enhanced Photocatalysis under Visible light	Zizhen Li/ <i>U Ottawa</i>
<b>12(REN)</b>	Fly-ash Based Solid Acid Catalyst: Synthesis, Characterization and Application in Biofuel Production	Dharmesh Lathiya/ <i>Sardar Vallabhbhai NIT</i>
<b>13(ENV)</b>	Gold Nanoparticles Stabilized in Tetraalkylphosphonium Ionic Liquids as Catalysts for the Direct Synthesis of Styrene Carbonates from Styrene and CO <sub>2</sub>	Vy T. Phung/ <i>U Saskatchewan</i>
<b>14(NOV)</b>	Gold@Titania vs Gold/Titania Catalytic Systems: Potential Photocatalysts for Carbon Dioxide Reduction to Methane	William Barrett/ <i>U Saskatchewan</i>
<b>15(REN)</b>	Hierarchical Porous Double-Shelled Electrocatalyst with Tailored Lattice Alkalinity towards Bifunctional Oxygen Reactions for Metal-air Battery	Ya-Ping Deng/ <i>U Waterloo</i>
<b>16(IND)</b>	High Surface Area $\alpha$ -alumina Support Applicable for High Temperature Processes	Davood Karami/ <i>U Calgary</i>

<b>17(REN)</b>	Hydrogen Production from Supercritical Water Gasification of Athabasca Bitumen using Metal Catalysts	Rachita Rana/ <i>York U &amp; U Saskatchewan</i>
<b>18(REN)</b>	Hydroprocessing of Canola Oil over Bimetallic Supported CuFe Catalysts and Commercial NiMo/Al <sub>2</sub> O <sub>3</sub> Catalyst	A. A. Ayandiran/ <i>U Saskatchewan</i>
<b>19(SYN)</b>	Investigating the Catalytic Mechanism of La <sub>0.3</sub> Ca <sub>0.7</sub> Cr <sub>0.3</sub> Fe <sub>0.7</sub> O <sub>3-δ</sub> For Reversible Solid Oxide Fuel Cells Through in situ XAS analysis.	Oliver Calderon/ <i>U Calgary</i>
<b>20(ENV)</b>	Low Temperature Acetone Oxidation using Ozone over Supported Manganese-Cobalt Bimetallic Catalysts	M. Ghavami/ <i>U Saskatchewan</i>
<b>21(EVN)</b>	Mesoporous Metallosilicates-supported Cobalt Catalyst for Fischer-Tropsch Synthesis	Girish Kamath/ <i>U Saskatchewan</i>
<b>22(REN)</b>	Mobilities of Potassium and Calcium during Catalytic Gasification	Ross Arnold/ <i>U Calgary</i>
<b>23(REN)</b>	Non-catalytic Hydrothermal Liquefaction of Camelina Sativa to Biogasoline	Abayomi Akande/ <i>U Regina</i>
<b>24(REN)</b>	Novel Perovskite Catalyst for Enhanced Oxygen/Hydrogen Evolution Reactions	Bin Hua/ <i>U Alberta</i>
<b>25(IND)</b>	Optimization of the Preparation Conditions of CuCeY Sorbent and its Adsorptive Removal Behavior for Thiophene from Benzene	Junjie Liao/ <i>Taiyuan U of Technology</i>
<b>26(SYN)</b>	Plasma Synthesis, Characterization and Catalytic Activity of Mixed Oxide Ferrites	Nicolas Dumaresq/ <i>U Sherbrooke</i>
<b>27(ENV)</b>	Rapid Synthesis of Magnetic Zeolite Materials from Fly Ash and Iron-containing Waste by the Supercritical Water for Hydrogen Chloride and Mercury Removal	Nianchen Han; Jiancheng Wang / <i>Taiyuan U of Technology</i>
<b>28(SYN)</b>	Speciation of various elements about a Coal Burning Power Plant onto Activated Carbon	Stanley Shewchuk/ <i>U Saskatchewan</i>
<b>29(CON)</b>	Studies effect of NiMo- Aluminosilicate catalysts on fouling during Hydroprocessing of Light Gas-oils in a Batch Reactor	Priyanka Kaushik/ <i>U Saskatchewan</i>
<b>30(ENV)</b>	Synthesis and Application of Solid Base Catalyst on Post Combustion Capture of CO <sub>2</sub> - A Mass Transfer Study	James Coker/ <i>U Regina</i>
<b>31(ENV)</b>	Synthesis of Carbon Nanotubes (CNTs) over Ni/MgO Catalyst from CH <sub>4</sub> /CO <sub>2</sub> for CO <sub>2</sub> Absorption	Paweesuda Natewong/ <i>U Regina</i>
<b>32(ENV)</b>	Synthesis of HZSM-5 Zeolite for Capture of CO <sub>2</sub>	Natthawan Prasongthum/ <i>U Regina</i>
<b>33(REN)</b>	Synthesis of Ionic Liquid Grafted on Solid Support as Heterogeneous Catalyst for Transesterification of Yellow Grease to Biodiesel	Anshul Deedwania/ <i>U Regina</i>
<b>34(CON)</b>	Synthesis of ZSM-5 with Different SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> ratio and their Catalytic Activities in 1-butene Catalytic Cracking	Zhiyuan Zhou/ <i>Research Inst of PetroChina</i>
<b>35(SYN)</b>	Ti-SBA-15 as a Highly Active Green Catalyst for the Production of Glycerol Carbonate	Parmila Devi/ <i>U Saskatchewan</i>
<b>36(GEN)</b>	Triflic Imide Catalyzed Mukaiyama-Michael Addition	Muhammad A. Algamal/ <i>U New Brunswick</i>

## Thursday May 10<sup>th</sup>

8:10-9:10	<b>Plenary Lecture:</b> Jingguang Chen, <i>Columbia University</i> , <b>Converting CO<sub>2</sub> via Thermocatalysis and Electrocatalysis</b>		
9:10-9:50	<b>Keynote</b> Peng Zhang, Dalhousie University <b>X-ray Spectroscopy Studies of Some Metal Nano-catalysts</b>	<b>Keynote</b> Xinchen Wang, Fuzhou University <b>Graphitic Carbon Nitride Polymers for Sustainable Photoredox Catalysis</b>	
9:50-10:10	<b>COFFEE BREAK</b>		
	SYNCHROTRON	MATERIALS	RENEWABLE
10:10-10:30	<b>Surface X-ray diffraction from alpha-Fe<sub>2</sub>O<sub>3</sub> nanocube</b> C.Y. Kim, Canadian Light Source	<b>Plasmonic photocatalytic silver nanoparticles for hydrogenation and oxidation reactions</b> A. Gelle, McGill University	<b>Integrating MnFe<sub>2</sub>O<sub>4</sub> Nanoparticles on NiCo<sub>2</sub>O<sub>4</sub> Ultrathin Nanosheets as Efficient Bifunctional Oxygen Catalysts for Rechargeable Zn-air Batteries</b> Y. Zhang, University of Alberta
10:30-10:50	<b>Mechanism study of SO<sub>2</sub> presence in catalytic CO<sub>2</sub> reforming of CH<sub>4</sub> using in-situ XANES at the Canadian Light Source</b> M. Shakouri, University of Saskatchewan	<b>Promoters catalyze synthesis of active sites</b> N. Semagina, University of Alberta	<b>Alternative fuel cell technologies for cogenerating electrical power and syngas from greenhouse gases</b> M. Li, University of Alberta
10:50-11:10	<b>Synergistic catalysis in first row transition metal based oxygen evolution reaction catalysts</b> K. Daly, University of Calgary	<b>Development of mesoporous GaN catalysts for the direct non-oxidative methane aromatization</b> K. Dutta, McGill University	<b>Role of Catalyst in Synthesis of Renewable Surfactant for Enhanced Oil Recovery</b> S. Vedachalam, Saskatchewan Research Council
11:10-11:30	<b>Thermochemical behavior of Ni ferrites probed by EXAFS and operando XANES</b> N. Braidy, University of Sherbrooke	<b>The Kinetic Study of Hydrogenation of Basic and Non-Basic N-Rings on Ru Sulfide Clusters</b> H. T. Cai, University of Toronto	<b>1,1,3,3 Tetramethylguanidine: A Highly Efficient Catalyst in Glycerol Carbonate synthesis</b> S. Gade, ICT Mumbai

11:30-11:50	<b>Quantitative Kinetics and the Structural Mechanism for Ni-Co Dry Reforming Catalysts</b> H. Wang, University of Saskatchewan	<b>Amorphous mixed-metal oxy(hydroxides) catalysts for the oxygen evolution reaction</b> S. Trudel, University of Calgary	<b>Direct Production of Arenes from Lignin over Niobium-based Catalysts</b> Y. Wang, East China University of Science and Technology
11:50-12:10	<b>Synthesis of sinter resistant gold catalysts derived from Au<sub>25</sub> clusters</b> S. Veeranmaril, University of Saskatchewan	<b>Synthesis of hierarchical TS-1 zeolite nanocrystals with controllable mesoporosity and size</b> Y. X. Li, China University of Petroleum	<b>Development of Green catalyst for Biodiesel Production from Soybean oil</b> S. Chaurasia, MNIT Jaipur
12:10-1:40	<b>LUNCH BREAK</b>		
1:40-2:20	<b>Keynote</b> Serge Kaliaguine, Laval University <b>Epoxidation of terpenes</b>	<b>Keynote</b> Susannah Scott, UC Santa Barbara <b>Strong Solvent Effects on the Activation of Ni/g-Al<sub>2</sub>O<sub>3</sub> and on its Activity in Liquid Phase Catalytic Hydrogenolysis</b>	
2:20-3:00		<b>Keynote</b> Zili Wu, <i>Oak Ridge National Laboratory</i> <b>New Insights into Catalysis from Neutron Scattering</b>	<b>Keynote</b> Mike Scurrall, University of South Africa <b>New nanomaterials for energy conversion and environmental processes requiring high performance catalysts</b>
3:00-3:20	<b>COFFEE BREAK</b>		
	SYNCHROTRON	GENERAL	RENEWABLE
3:20-3:40	<b>Brockhouse diffraction beamlines at the Canadian Light Source - Opportunities for Catalysis</b> B. Moreno, Canadian Light Source	<b>Vanadium pyrophosphate catalyst: Core-shell morphology and attrition resistance</b> M. Rigamonti, Polytechnique Montreal	<b>Effects of Surface Structure and Alloying of Copper Catalysts for Electrochemical Reduction of Carbon Dioxide to Fuels and Chemicals</b> D. Higgins, Stanford University



3:40-4:00	<b>The Development of In Situ Liquid Cells for Catalysis at the SXRMB beamline of the Canadian Light Source</b> Y. Yao, University of Saskatchewan	<b>Tuning photocatalytic properties of Mn-TiO<sub>2</sub> and Zr-TiO<sub>2</sub> by Ultrasound</b> Z. Khani, Polytechnique Montreal	<b>Effect of Lewis and Bronsted Acidity on Conversion of Biocrude Produced during Hydrothermal Liquefaction of Camelina Sativa to Biogasoline</b> A. Akande, University of Regina
4:00-4:20	<b>Surface investigation of tungstophosphoric acid (TPA, H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub>) supported on ordered mesoporous aluminosilicates for biodiesel synthesis</b> A. Khurade, University of Saskatchewan	<b>Synthesis of Zeolites for Requirements of Industrial Applications</b> F. S. Xiao, Zhejiang University	<b>The effect of Ru promotion on the Cu/ZnO/Al<sub>2</sub>O<sub>3</sub> catalytic performance in reverse water gas shift reaction</b> Y. Zhuang, University of Waterloo
4:20-4:40	<b>Catalyst Development for Chemical Engineering approaches for mixed gas stream separation of Global Scale air pollutants</b> S. Shewchuk, University of Saskatchewan	<b>Performance and benchmarking study of Density Functional Theory methods via CO and CO<sub>2</sub> adsorption on Ni</b> O. Mohan, National Technological University, Singapore	<b>Hydrogen production from supercritical water gasification of waste cooking oil using metal catalysts</b> S. Nanda, York University
4:40-5:00	<b>Unlocking Atomic-Level Structure within Heteroatom Substituted Zeolite Frameworks using Solid-State NMR</b> V. Michaelis, University of Alberta	<b>Microwave-Assisted Preparation of Sorbent for High Temperature Coal Gas Clean-up</b> Y. Feng, Taiyuan University of Technology	<b>Effect of reaction temperature and feed gas ratio on carbon deposition in CH<sub>4</sub>-CO<sub>2</sub> reforming reaction over Ni-based catalysts</b> X. Li, Taiyuan University of Technology
5:00-6:00	<b>BREAK</b>		
6:00-8:00	<b>BANQUET</b>		

## Friday May 11<sup>th</sup>

8:30-9:10	<b>Keynote</b> Peijun Hu, Queens University Belfast, UK <b>What Can We Learn from DFT Calculations in Heterogeneous Catalysis</b>	
9:10-9:50	<b>Keynote</b> Opinder Bhan, Shell_Criterion Catalysts and Technologies <b>Best Practices to Meet the Challenge of Heavier Residue Processing</b>	<b>Keynote</b> Ganapati D. Yadav, ICT Mumbai <b>Valorization of Waste into Chemicals, Materials, and Energy for Sustainable Industry</b>
9:50-10:10	<b>COFFEE BREAK</b>	
	INDUSTRIAL	RENEWABLE
10:10-10:30	<b>Catalytic Cracking of Thermally Cracked HGO from Oil Sands Bitumen</b> Y. Zhang, CanMet Energy, Alberta	<b>Impact of metal promoters on Mo<sub>2</sub>C/carbon catalysts used for the hydrodeoxygenation of dibenzofuran</b> S. Liu, University of British Columbia
10:30-10:50	<b>Development of new processing scenarios for heavy oils</b> Y. Zheng, University of New Brunswick	<b>Iron Nanoparticles as Hydrogenation Catalysts in Alcohols and Ionic Liquids -- #AllSolventsMatter</b> A. Banerjee, University of Saskatchewan
10:50-11:10	<b>Effect of the contact time on alcohols distribution over CuCoCe catalysts for the synthesis of higher alcohol from syngas</b> J. Wei, Taiyuan University of Technology	<b>Energy Storage Using DC Discharge in Catalytic Fixed Bed Reactor</b> Y. Lu, University of Alberta
11:10-11:30	<b>Deep desulfurization of bitumen derived gas oils in the absence of hydrogen using Mn promoted Mo/Al<sub>2</sub>O<sub>3</sub> -TiO<sub>2</sub> catalyst</b> S. Badoga, University of Saskatchewan	<b>One-step hydrotreatment of lipids in the production of iso-alkanes over Pt/SAPO-11</b> C. Luo, Petrochemical Research Institute of PetroChina

11:30-11:50	<p><b>Preparation of <math>AlCl_3</math>/silica gel catalyst and its alkyl performance for simultaneously removal of thiophene and olefins from benzene</b></p> <p>J. Liao, Taiyuan University of Technology</p>	<p><b>Heat duty evaluation of a novel solvent blend in a catalyst- aided <math>CO_2</math> post combustion capture</b></p> <p>J. Narku-Tetteh, University of Regina</p>
11:50-12:10	<p><b>Toluene alkylation with 1-heptene: the influence on reaction selectivity of different coke pre-cursors</b></p> <p>A. Al-Shathr, University of Sheffield, UK</p>	<p><b>Synthesis and characterization of metallic nitrides semiconductors from II-IV families for hydrogen production by photocatalytic methods</b></p> <p>A. Cruz-Lopez, Universidad Autónoma de Nuevo León</p>
<p>END OF CONFERENCE</p>		