

CONFERENCE PROGRAM

THEME LEGEND

Theme 1: SCEP – Sustainable and clean energy production

Theme 2: EC – Emission control

Theme 3: IAC – Indoor air cleaning

Theme 4: WT – Water treatment

Theme 5: GEC – Green Engineering and Chemistry

Day 1: Monday 11 July 2016

07:30	Registration				<i>Civic Theatre Foyer</i>
08:30-09:00	Opening Plenary				<i>Civic Theatre</i>
09:00-10:00	Professor Johannes A. Lercher Towards a zero-carbon footprint future – Linking fundamental science with practice <i>Department of Chemistry and Catalysis Research Center, Technische Universität München, Garching, Germany</i> <i>Institute for Integrated Catalysis, Pacific Northwest National Laboratory, Richland, WA, USA</i>				<i>Civic Theatre</i>
10:00-10:20	MORNING TEA				
10:20-12:40	Concurrent Sessions				
	Concurrent Session 1A <i>Hunter Room</i> Theme: 1. Sustainable and clean energy production	Concurrent Session 1B <i>Cummings Room</i> Theme: 2. Emission control	Concurrent Session 1C <i>Mulubinba Room</i> Theme: 3. Indoor air cleaning	Concurrent Session 1D <i>Newcastle Room</i> Theme: 4 Water treatment	
10:20	Keynote: Professor Thomas Maschmeyer <i>Laboratory of Advanced Catalysis for Sustainability, School of Chemistry & Australian Institute for Nanoscale Science and Technology, The University of Sydney</i> From Single-sites to Nanostructured Ensembles, the Continuum of Catalytic Sites, as Illustrated with Sustainable Hydrogen Production	<u>Emma Adams</u> , Prof. Magnus Skoglundh, Johan Nilsson, Dr Natalia Martin, Dr Giovanni Agostini, Dr Olivier Mathon, Dr Per-Anders Carlsson <i>Competence Centre for Catalysis, Chalmers University of Technology</i> Paper #77 - The chemistry of the palladium phase in Pd/Ce/Al ₂ O ₃ during ammonia formation	<u>Prof. Taicheng An</u> , Dr Jiangyao Chen, Prof. Guiying Li <i>School of Environmental Science and Engineering, Guangdong University of Technology</i> Paper #143 - Comparison of photocatalytic mechanism of gaseous xylene isomers under solar-light irradiation onto ZnIn ₂ S ₄ -ordered mesoporous silica composite with short-channels	<u>Hana Ayadi</u> <i>University of Lyon</i> Paper #194 - Noble-metal-free catalysts for the treatment of N-containing organic pollutants by Catalytic Wet Air Oxidation	
10:40	<i>(40 minute presentation)</i>	<u>Dr Robert Bennett</u> <i>CSIRO</i> Paper #350 - Carbon Capture Powered by Solar Energy	<u>Prof. Anne Giroir-Fendler</u> , Prof. Yanglong Guo Guo, Dr Sonia Gil Villarino, Chao Wang Wang <i>Institut de recherches sur la catalyse et l'environnement de Lyon</i> Paper #261 - Low-temperature catalytic oxidation of vinyl chloride emission over Ru modified Co ₃ O ₄ catalysts	<u>Prof. Hongbin Cao</u> <i>Institute of Process Engineering, Chinese Academy of Sciences</i> Paper #218 - Enhanced photocatalytic activity over doughnut-like porous g-C ₃ N ₄ driven by down-shifted valance band maximum	
11:00	<u>Dr Oleg Klimov</u> <i>Borskov Institute of Catalysis SB RAS</i> Paper #230 - CoMo/Al ₂ O ₃ hydrotreating catalysts of diesel fuel with improved hydrodenitrogenation activity	<u>Prof. Jean Andino</u> , Selisa Rollins, Dr Jonathan Smuts, Prof. Ying Li <i>Arizona State University</i> Paper #254- A GC-VUV Study of the Effects of NO on Carbon Dioxide Photoreduction	<u>Prof. Murid Hussain</u> <i>COMSATS Institute of Information Technology</i> Paper #132 - Nanostructured TiO ₂ catalyst for improved photocatalytic abatement of VOCs	No Presentation	
11:20	<u>A/Prof. Ahed Alfatesh</u> , Prof. Anis Fakeeha, Wasim Khan, DrAhmed Aidid, Prof.Ahmed Abasaed <i>King Saud University</i> Paper #146 - Caesium and mixed potassium and sodium promoted Ni catalysts for dry reforming of methane	<u>David Berthout</u> <i>IFP Energies Nouvelles</i> Paper #105 - Experimental and modelling study of a commercial low temperature NOx adsorber for diesel engines	<u>Prof. Jean-François Lamonier</u> , Dr Jean-Marc Giraudon, Dr Nicolas Nuns, Martine Trentesaux <i>Université de Lille</i> Paper #44 - Reaction of formaldehyde over birnessite catalyst: an in situ and combined XPS and ToF-SIMS study	<u>Martin Hantusch</u> <i>University of Rostock</i> Paper #376 - Electronic properties of photocatalytic improved Degussa P25 titanium dioxide powder	
11:40	<u>Prof. Junjie Bian</u> , Qi Zhang <i>College of Chemistry and Chemical Engineering, Ocean University of China</i> Paper #289 - Mesoporous Supported Iron Oxides Nanoparticles for Catalytic Deoxygenation Upgrading of Microalgae Hydrothermal Liquefaction Derived Bio-oil	<u>Sandra Dahlin</u> , Dr Marita Nilsson, Dr Daniel Bäckström, Susanna Liljegren, Emelie Bengtsson, Prof. Steven Bernasek, Prof. Lars Pettersson <i>Chemical Engineering and Technology, KTH Royal Institute of Technology</i> Paper #162 - The effect of biodiesel-derived contaminants on Automotive SCR catalysts	<u>Prof. Antoni Morawski</u> <i>West Pomeranian University of Technology, Institute of Chemical and Environment Engineering</i> Paper #49 - Photocatalytic removal of acetaldehyde from air on carbon modified TiO ₂	<u>Dr Kyong-Hwan Chung</u> , Prof. Sang-Chul Jung, Sung-Jin Lee, Prof. Young-Kwon Park <i>Sunchon National University</i> Paper #89 - Irradiation of Liquid Phase Plasma on the Photocatalytic Decomposition of Acetic Acid-contained Wastewater over Metal Oxide Photocatalysts	

12:00	<u>A/Prof. Qinghai Li</u> , Mingyang Zhang, Qimeng Shen, Professor Yanguo Zhang, Professor Hairui Yang, Qing Liu, Dr Jun Huang <i>Department of Thermal Engineering, Tsinghua University</i> Paper #40 - Experimental Study of Catalytic Combustion of Simulated Biomass Gasification Gas	<u>Prof. Hongxing Dai</u> <i>College of Environmental and Energy Engineering, Beijing University of Technology</i> Paper #325 - Au-Pd-MOx/3DOM M'Oy (M = Cr, Mn, Fe, and Co; M' = Co, Mn, and Al) nanocatalysts: Highly active for the combustion of methane	No Presentation	<u>A/Prof. Gwendoline Lafaye</u> , Halima Sassi, Dr Hédi Ben Amor, Prof. Abdelaziz Gannouni, Prof. Mohamed Razak Jeday, Prof. Jacques Jr. Barbier <i>University of Poitiers</i> Paper # 258 - Catalytic Wet Air Oxidation of phenol over a Tunisian clay modified by Al and Fe
12:20	<u>A/Prof. Supaporn Therdthianwong</u> <i>Department of Chemical Engineering, King Mongkut's University of Technology Thonburi</i> Paper #380 - Glycerol Steam Reforming over Ni catalysts supported on sol-gel derived CeZrO ₂ /Al ₂ O ₃ for H ₂ Production: Effect of solvent type	<u>Jiyuan Fan</u> , Honglei Zhang, Prof. Aijun Duan, Prof. Zhen Zhao, Zesheng Xia <i>China University of Petroleum-Beijing</i> Paper #357 - Synthesis of citric acid modified L/W composite and its application in FCC gasoline hydro-upgrading catalyst	<u>Dr Bingbing Chen</u> , Prof. Chuan Shi, <i>Dalian University of Technology</i> Paper #174 - Gold stabilized on various supports catalyze the HCHO oxidation at room temperature	<u>Prof. Kuen-Song Lin</u> , Khanh Toan Dinh, Yu-Heng Huang <i>Yuan Ze University</i> Paper #263 - Preparation and Characterization of V-loaded Titania Nanotubes for Adsorption/Photocatalysis of Dyes and Environmental Hormones Contaminated Wastewaters
12:40-13:40	LUNCH			
13:40-15:00	Concurrent Sessions			
	Concurrent Session 2A <i>Hunter Room</i> Theme: 5. Green Engineering and Chemistry	Concurrent Session 2B <i>Cummings Room</i> Theme: 1. Sustainable and clean energy production	Concurrent Session 2C <i>Mulubinba Room</i> Theme: 2. Emission control	Concurrent Session 2D <i>Newcastle Room</i> Theme: 5. Green Engineering and Chemistry
13:40	Keynote: Distinguished Professor Suresh K. Bhargava <i>Deputy Pro-Vice Chancellor (International Relations), Director, Centre for Advanced Materials and Industrial Chemistry (CAMIC), School of Sciences, RMIT University, Melbourne</i> An Innovative approach in catalysts and process design – Paradigm shift in Environmental Catalysis <i>(40 minute presentation)</i>	<u>Prof. Alfonso Caballero</u> <i>University of Seville</i> Paper #255 - A very stable and performance Ni/SBA-15 catalyst for hydrogen production	<u>Prof. Christophe Du Jardin</u> <i>Université de Lille</i> Paper #116 - Development of a multi-site kinetic model for NO _x storage and NO oxidation on Fe-BEA SCR catalyst based on operando IR spectroscopic measurements	<u>Prof. Qing Ye</u> <i>Beijing University of Technology</i> Paper #393 - High Catalytic Activity of Au Nanoparticles Supported on 3D Ordered Mesoporous b-MnO ₂ Catalysts for Catalytic Oxidation of Benzene and CO
14:00		<u>Xiaojun Bao</u> <i>China University of Petroleum</i> Paper #330 - Preparation of tri-metallic WMoNi sulfide diesel ultra-deep hydrodesulfurization catalysts with enhanced synergetic effects using inorganic-organic hybrid nanocrystals as precursors	<u>Adj. Prof. Galen B. Fisher</u> , Amin Reihani, John W. Hoard, Dr Joseph R. Theis, Dr Christine K. Lambert, Dr Evgeny Smirnov, Dirk Roemer <i>University of Michigan</i> Paper #332 - Rapidly Pulsed Reductants in Diesel NO _x Reduction with Lean NO _x Traps: Effects of Pulsing Frequency on Performance	No Presentation
14:20	<u>Prof. Junjiang Zhu</u> <i>Shenyang Normal University</i> Paper #256 - Nitrogen Doped Carbon Xerogels Supported Palladium Catalysts for selective hydrogenation of 1,5-cyclooctadiene	<u>Prof. Michael Bowker</u> <i>Cardiff University</i> Paper #160 - Methanol Synthesis from CO ₂ + H ₂ using sol-immobilised Pd on ZnO	<u>Vincent Frizon</u> <i>Institut de Recherches sur la Catalyse et l'Environnement de Lyon</i> Paper #201 - Pr-doped ceria catalysts for automotive oxidation catalysis	<u>Prof. Israf Ud Din</u> <i>Universiti Teknologi PETRONAS</i> Paper #152 - Influence of copper content on the physicochemical and reactivity pattern of carbon nanofibers based copper /zirconia catalysts for carbon dioxide hydrogenation to methanol
14:40	<u>Prof. Michael Bowker</u> <i>Cardiff University</i> Paper #161 - Photocatalytic reforming of methanol and triethanolamine: titania and graphitic carbon nitride compared	<u>Prof. Alan Chaffee</u> <i>Monash University</i> Paper #355 - Gas-phase conversion of CO ₂ to methane using a MIL-140C(Ru) derived catalyst	<u>Prof. MingLi Fu</u> , Dr Manilo Occhiuzzi <i>South China University of Technology</i> Paper #188 - The Key Surface Species and Oxygen Vacancies in MnO _x (0.4)-CeO ₂ towards Repeated Soot Oxidation	<u>Alexandre Samuel Dumon</u> <i>Ecole Normale Supérieure de Lyon</i> Paper #76- H-transfer processes: Why the chemical environment DOES matter
15:00-15:20	AFTERNOON TEA			

15:20-17:00	Concurrent Sessions				
	Concurrent Session 3A Hunter Room Theme: 1. Sustainable and clean energy production	Concurrent Session 3B Cummings Room Theme: 5. Green Engineering and Chemistry	Concurrent Session 3C Mulubinba Room Theme: 2. Emission control	Concurrent Session 3D Newcastle Room Theme: 2. Emission control	Concurrent Session 3E Waratah Room Theme: 2. Emission control
15:20	Keynote: Professor Moti Herskowitz <i>Director, Blechner Center for Industrial Catalysis & Process Development</i> Eco-friendly catalytic processes for production of renewable and fungible liquid fluids and chemicals (40 minute presentation)	<u>Dr Torstein Fjermestad</u> Agency for Science, Technology and Research (A*STAR) Paper #207 - Reactivity trends of model oxidation reactions at the vanadium phosphate (VPO) catalyst	<u>Jonas Granestr�nd</u> , Susanna Liljegren, Dr Marita Nilsson, Prof. Steven Bernasek, Prof. Lars Pettersson <i>KTH Royal Institute of Technology</i> Paper #113 - Oxidation state changes during catalytic oxidation on Pt/Al ₂ O ₃ as observed by in-situ near ambient pressure XPS	<u>Dr Kirsten Leistner</u> , Dr Ashok Kumar, Dr Krishna Kamasamudram, Prof. Louise Olsson <i>Chalmers University of Technology</i> Paper #102 - Mechanistic Study of Hydrothermally Aged Cu/SSZ-13 Catalysts for Ammonia Selective Catalytic Reduction (NH ₃ -SCR)	<u>Prof. Ruifeng Li</u> <i>Taiyuan University of Technology</i> Paper #245 - Location and catalytic effects of Co ions in zeolite frameworks in NO-SCR with CH ₄
15:40		<u>Prof. Yanglong Guo</u> <i>East China University of Science and Technology</i> Paper #158 - A highly efficient catalyst of Cu-K-Sm/γ-Al ₂ O ₃ for Deacon reaction	<u>Christoph Hahn</u> <i>TU Freiberg - Institute of Energy Process Engineering and Chemical Engineering</i> Paper #8 - Kinetic modelling of the NO _x reduction by H ₂ on Pt/WO ₃ /ZrO ₂ catalyst in excess of O ₂	<u>Dr Jerry Pui Ho Li</u> , Prof. Yong Yang <i>ShanghaiTech University</i> Paper #97 - Evaluation of the Au-Ti Catalytic Sites with CO Oxidation: Characterization of Catalytic Sites over Au/TiO ₂ Catalysts using Temperature Programmed Reaction Spectroscopy (TPRS)	<u>Dr Jesus Manuel Garcia Vargas</u> , Dr Reine Sayah, Dr Sonia Gil, Laurence Retailleau-Mevel, Dr Laurent Veyre, Dr Chloe Thieuleux, Prof. Anne Giroir-Fendler <i>Universit� Lyon</i> Paper #238 - Pd/Rh catalysts for the abatement of car emission pollutants
16:00	<u>Yumika Kudo</u> , Atsushi Okemoto, Kensuke Kishishita, Sho Maeda, Prof. Takafumi Horie, Prof. Keita Taniya, Prof. Yuichi Ichihashi, Prof. Satoru Nishiyama <i>Kobe University</i> Paper #165 - Photocatalytic Water Decomposition over Organic Semiconductor Thin film	<u>Prof. Yun Hu</u> <i>South China University of Technology</i> Paper #375 - In situ synthesis of g-C ₃ N ₄ based nanocomposites with enhanced photocatalytic activities for DBP and NO _x removal	<u>Prof. Hanna H�relind</u> , Dr Marika M�nnikk�, Xueting Wang, Linda Str�m, Dr Fredrik Gunnarsson, Prof. Magnus Skoglundh <i>Chalmers University of Technology</i> Paper #69 - Active sites and reaction paths for lean NO _x reduction over silver alumina	<u>Dr Olivier Marie</u> , Dr Sandra Palma del Valle, Dr Hai Nguyen <i>Universit� Caen Basse Normandie</i> Paper #320 - Effect of support material Al ₂ O ₃ vs ZrO ₂ -TiO ₂ on the Ba availability for NSR catalyst: an in situ and operando IR study	<u>Dr Jean-marc Giraudon</u> , Sharmin Sultana, Prof. Jean-Fran�ois Lamonier, Prof. Nathalie De Geyter, Prof. Rino Morent <i>Universit� de Lille</i> Paper #78 - Synthesis and catalytic performances of K-OMS-2, Fe ₃ O ₄ /K-OMS-2 and Fe-K-OMS-2 in post plasma-catalysis for dilute TCE abatement
16:20	<u>Yasuhiro Horie</u> , Naoki Furumoto, Ryo Fujita, Atsushi Okemoto, Prof. Keita Taniya, Prof. Yuichi Ichihashi, Prof. Satoru Nishiyama <i>Kobe University</i> Paper #179 - Formation process of the precursor of Cu-ZnO-Al ₂ O ₃ catalysts for water gas shift reaction	<u>Johann Kirchner</u> , Prof. Sven Kureti <i>Technical University of Freiberg</i> Paper #75 - Structure-activity relation of Fe based catalysts for CO ₂ methanation	<u>Dr Saburo Hosokawa</u> , Takuya Shibano, Ryohei Tada, Dr Kentaro Teramura, Prof. Tsunehiro Tanaka <i>Kyoto University</i> Paper #180 - Selective reduction of NO over Mn-modified hexagonal YbFeO ₃	<u>Kazuya Miura</u> , Fumikazu Kimata, Dr Ryo Watanabe, Prof. Choji Fukuhara <i>Shizuoka University / Suzuki Motor Corporation</i> Paper #92 - Physicochemical study of various precious metal catalysts for HC-SCR reaction under oxygen-excessive condition	<u>Prof. Anne Giroir-Fendler</u> <i>Lyon 1 University</i> Paper #370 - Highly active and stable Ru/K-OMS-2 for NO oxidation
16:40	<u>Yusuke Isaka</u> , Prof. Tomoyoshi Suenobu, Prof. Shunichi Fukuzumi, Kohei Oyama, Prof. Yusuke Yamada <i>Osaka University</i> Paper #166 - Photocatalytic Production of Hydrogen Peroxide by Combination of Selective Dioxide Reduction and Water Oxidation with Heterogeneous Catalysts Bearing Controlled Nanostructures	<u>Dr Nitin Kumar</u> , Prof. James Spivey, Dr Dushyant Shekhawat, Dr Daniel Haynes <i>Louisiana State University</i> Paper #87 - Methane reforming over Ni-based pyrochlore catalyst: Carbon deposition studies	<u>Prof. Haibao Huang</u> <i>Sun Yat-Sen University</i> Paper #84 - Efficient catalytic oxidation of gaseous benzene over Mn/TiO ₂ /ZSM-5 under vacuum UV irradiation	<u>Prof. Johannes W. Schwank</u> , Jason A. Lupescu, Prof. Galen B. Fisher, Jon Hangas, Dr Sabrina L. Peczonczyk <i>University of Michigan</i> Paper #85 - Aging Environment and Lean Redispersion Effects on Pd Catalysts	<u>A.Prof. Lars Grabow</u> , Yuying Song, Dr Hieu Doan, Prof. William Epling <i>University of Houston</i> Paper #168 - Diesel Oxidation Catalysts with Improved Low Temperature Activity Identified from Computational Screening
17:00-18:00	POSTER SESSION 1 Emission control Water treatment				CONCERT HALL
19:00-21:00	Restaurant Night Various Locations			IAB Meeting Customs House Hotel	

08:00	Registration				<i>Civic Theatre Foyer</i>
08:00-08:35	Welcome to Day 2				<i>Civic Theatre</i>
08:35-09:35	Distinguished Professor Maria Flytzani-Stephanopoulos Heterogeneous catalysis at the single-atom limit <i>Robert and Marcy Haber Endowed Professor in Energy Sustainability, Department of Chemical and Biological Engineering, Tufts University</i>				<i>Civic Theatre</i>
09:35-10:00	MORNING TEA				
10:00-10:40	Concurrent Sessions				
	Concurrent Session 4A Theme: 1. Sustainable and clean energy production <i>Hunter Room</i>	Concurrent Session 4B Theme 2. Emission control <i>Cummings Room</i>	Concurrent Session 4C Theme: 5. Green Engineering and Chemistry <i>Mulubinba Room</i>	Concurrent Session 4D Theme: 4. Water treatment <i>Newcastle Room</i>	
10:00	<u>Vahid Shadravan</u> , Prof. Eric Kennedy, A/Prof. Michael Stockenhuber <i>University of Newcastle</i> Paper #378 - CO and CO ₂ methanation in the presence of light alkanes and alkenes over transition metal-Ni alumina supported bi-metallic catalysts	<u>Prof. Lucjan Chmielarz</u> <i>Jagiellonian University</i> Paper #63 - The influence of iron speciation on catalytic performance of Fe-BEA catalysts in DeNO _x process – studies of the reaction mechanism	<u>Prof. Haiyan Liu</u> <i>China University of Petroleum</i> Paper #337 - Enhancing the thioetherification activity of supported NiFe catalysts for mercaptan removal via element modification of alumina	<u>Assoc. Prof. Yongbing Xie</u> <i>Institute of Process Engineering, Chinese Academy of Sciences</i> Paper #212 - Insights into the potential of 0-2D nanocarbons in visible light-O ₃ integrated process for metal-free water decontamination	
10:20	<u>Radosław Debek</u> , Dr Monika Motak, Dr Elena Galvez, Prof. Teresa Grzybek, Prof. Patrick Da Costa <i>AGH University of Science and Technology and Sorbonne Universités</i> Paper #81 - Promotion effect of zirconia on Ni/Mg/Al mixed oxides derived from hydrotalcites in CO ₂ reforming of methane	<u>Prof. Sung June Cho</u> , Prof. Do Heui Kim <i>Chonnam National University</i> Paper #58 - V supported microporous TiO ₂ catalyst for the reduction of N ₂ O emission from NH ₃ SCR	<u>Harish N</u> , Dr Nagaraju N <i>Catalysis research laboratory, Department of chemistry, St. Joseph's college PG and research centre</i> Paper #243 - Environmentally benign method for the synthesis of industrially important biphenyl urea using ecofriendly AlPO ₄ catalysts	<u>Dr Zequan Zeng</u> , Dr Yaopin Guo, Dr Yulin Li, Jieyang Yang, Dr Zhanggen Huang <i>State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences</i> Paper #138 - Catalytic oxidation of 4-chlorophenol with persulfate activated by in-situ Sulfur-doped carbon	



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10:40-12:40	Concurrent Sessions				
	Concurrent Session 5A <i>Hunter Room</i> Theme: 1. Sustainable and clean energy production	Concurrent Session 5B <i>Cummings Room</i> Theme 2. Emission control	Concurrent Session 5C <i>Mulubinba Room</i> Theme: 5. Green Engineering and Chemistry	Concurrent Session 5D <i>Newcastle Room</i> Theme: 2. Emission control	Concurrent Session 5E <i>Waratah Room</i> Theme: 1. Sustainable and clean energy production
10:40	<p>Keynote: Professor Hiromi Yamashita <i>Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University</i></p> <p>Design of Plasmonic Catalysts for Efficient H₂ Production from Hydrogen Storage Molecules</p> <p><i>(40 minute presentation)</i></p>	<p><u>Prof. Christophe Dujardin</u>, Dr Anke Schoen, Dr Jean-philippe Dacquin, Prof. Pascal Granger <i>University of Lille</i></p> <p>Paper #268 - Perovskite-based catalysts as alternative to commercial Three-Way-Catalysts? – Impact of Cu and Ca doping and optimization of surface properties</p>	<p><u>Prof. Manne palli Lakshmi Kantam</u> <i>Department of Chemical Engineering, Institute of Chemical Technology, Hyderabad</i></p> <p>Paper #192 - Oxidative coupling of carboxylic acids using transition metal hydroxalate catalysts</p>	<p><u>Kuan Lun Pan</u> <i>National Central University</i></p> <p>Paper #208 - Catalytic removal of toluene from gas streams by double perovskite-type catalyst</p>	<p><u>Radosław Debek</u>, Dr Monika Motak, Dr Elena Galvez, Dr Teresa Grzybek, Prof. Patrick Da Costa <i>AGH University of Science and Technology</i></p> <p>Paper #80 - Hydroxalate-derived Ni(Mg,Al)O mixed oxides as a catalysts for dry methane reforming reaction – effect of Ni content</p>
11:00		<p><u>Johanna Englund</u>, Prof. Magnus Skoglundh, Dr Per-Anders Carlsson <i>Competence Centre for Catalysis, Chalmers University of Technology</i></p> <p>Paper #213 - Impact of palladium distribution in alumina on low-temperature oxidation of carbon monoxide</p>	<p><u>Bhairi Lakshminarayana</u>, Dr L Mahendar, Dr G Satyanarayana, Dr Ch Subrahmanyam <i>IIT Hyderabad</i></p> <p>Paper #184 - Nano sized Recyclable PdO Supported carbon nanostructures for Heck Olefination of Aryl halide Reaction: Influence of carbon materials</p>	<p><u>Dr Peng Ruosi</u> <i>South China University of Technology</i></p> <p>Paper #135 - Morphology effect of Pt/CeO₂ catalysts for the catalytic oxidation of toluene and the role of surface oxygen vacancy</p>	<p><u>Dr Toshiyuki Yokoi</u>, Dr Masato Yoshioka, Prof. Takashi Tatsumi <i>Tokyo Institute of Technology</i></p> <p>Paper #186 - MTO reaction over CON-type aluminosilicates zeolite with Al distribution in the framework controlled</p>
11:20	<p><u>Dr Agata Lamacz</u> <i>Wroclaw University of Technology</i></p> <p>Paper #270 - Methane to H₂ and CNTs conversion over Ni/CeZrO₂. A mechanistic study and catalyst regeneration with H₂ formation</p>	<p><u>Prof. Bill Epling</u>, Yasser Jangjou, Dr Junhui Li, Dr Ashok Kumar, Dr Di Wang <i>University of Houston</i></p> <p>Paper #27 - Sulfur poisoning of the selective catalyst reduction (SCR) and NH₃ oxidation reactions over Cu/SAPO-34 and CU/SSZ-13</p>	<p><u>Prof. Kuen-Song Lin</u>, Pei-Ju Hsu, Chao-Lung Chiang <i>Department of Chemical Engineering and Materials Science, Yuan Ze University</i></p> <p>Paper #257 - Magnetic Separation and Recycling of Ferrite Nanocatalysts for CO₂ Decomposition with Methane Recovery from Steel Industrial Flyash</p>	<p><u>Prof. Atsushi Satsuma</u>, Toshihiro Maruo, Dr Junya Ohyama <i>Graduate School of Engineering, Nagoya University</i></p> <p>Paper #88 - In-situ UV-Vis study on dynamics of Cu species in Cu-MFI under NH₃-SCR</p>	<p><u>Yuhai Sun</u>, Dr Limin Chen, Yunfeng Bao, Guannan Wang, Yujun Zhang, Dr Mingli Fu, Dr Junliang Wu, Prof. Daiqi Ye <i>South China University of Technology</i></p> <p>Paper #154 - Roles of Nitrogen Species on Nitrogen-doped CNTs Supported Cu/ZrO₂ System for Carbon Dioxide Hydrogenation to Methanol Paper</p>
11:40	<p><u>Dr Xiaobo Li</u>, Prof. Thomas Maschmeyer, Edwin Clatworthy, Prof. Anthony Masters <i>The University of Sydney</i></p> <p>Paper #304 - Molecular Cobalt Clusters as Precursors of Active Species in Electrochemical, Photochemical, and Photoelectrochemical Water Oxidation Reactions</p>	<p><u>Géraldine Ferre</u>, Sébastien Grenier, Dr Alexandre Westermann, Dr Julien Couble, Dr Françoise Bosselet, Dr Stephane Loridant, Dr Christophe Geantet, Dr Philippe Vernoux <i>Institute de Recherches sur la Catalyse et l'Environnement de Lyon (IRCELYON)</i></p> <p>Paper #108 - Characterization of the reductibility of Zr and Pr-doped Ceria</p>	<p><u>Huajuan Ling</u>, Yongwen Tao <i>University of Sydney</i></p> <p>Paper #364 - Improve Selective Oxidation of Benzyl Alcohol via Ionic Effects from Support to Pt nanocatalysts</p>	<p><u>Dr Petr Sazama</u> <i>J Heyrovsky Institute of Physical Chemistry of the ASCR</i></p> <p>Paper #222 - Remarkably enhanced density and specific activity of active sites in Al-rich Cu-, Fe- and Co-beta zeolites for selective catalytic reduction of NO_x</p>	<p><u>Prof. Zhimin Ao</u> <i>Guangdong University of Technology</i></p> <p>Paper #297 - Electric field: A promising catalyst for atomic hydrogen storage on graphene Paper</p>
12:00	<p><u>Prof. Michael Bowker</u> <i>Cardiff University</i></p> <p>Paper #160 - Methanol Synthesis from CO₂ + H₂ using sol-immobilised Pd on ZnO</p>	<p><u>Andrey Petrov</u>, Dr Davide Ferri, Prof. Jeroen van Bokhoven, Prof. Oliver Kröcher <i>Institute for Chemical and Bioengineering and Paul Scherrer Institut</i></p> <p>Paper #127 - Enhancing the stability of palladium catalysts for methane oxidation using hierarchical ZSM-5</p>	<p><u>Luke Harvey</u>, Prof. Eric Kennedy, A/Prof. Michael Stockenhuber <i>University of Newcastle</i></p> <p>Paper #383 - Evidence for the Presence of a Highly Stable Titanium-Peroxo Species Formed in TS-1: An in-situ FTIR Study</p>	<p><u>Baofang Jin</u>, Prof. Zhen Zhao, Prof. Yuechang Wei, Yazhao Li, Prof. Jian Liu <i>China University of Petroleum (Beijing)</i></p> <p>Paper #341 - The effect of CeO₂ loading amount on the catalytic activity of Au/x-CeO₂/Al₂O₃ catalysts for soot combustion under loose contact condition</p>	<p><u>Prof. Ben Teng</u> <i>Jilin University</i></p> <p>Paper #398 - Preparation and carbonization of novel charged porous organic frameworks</p>
12:20	<p><u>Subramanian Moscow</u>, Dr Kandasamy Jothivenkatachalam <i>Anna University, BIT Campus</i></p> <p>Paper #123 - The heterostructured Pd, Ag doped BiVO₄ and their improved Photoelectrochemical Water Splitting Performance</p>	<p>No Presentation</p>	<p><u>A/Prof. Keita Taniya</u>, Ryota Mori, Atsushi Okemoto, A/Prof. Takafumi Horie, A/Prof. Yuichi Ichihashi, Prof. Satoru Nishiyama <i>Kobe University</i></p> <p>Paper #101 - Role of Al³⁺ in β-zeolites for Baeyer-Villiger oxidation of cyclic ketones by using H₂O₂ as an environment-friendly oxidant</p>	<p><u>Prof. Zhiming Liu</u> <i>Beijing University of Chemical Technology</i></p> <p>Paper #151 - Selective catalytic reduction of NO_x with NH₃ over novel Cr/W/Zr catalyst</p>	<p>No Presentation</p>
12:40-13:40	LUNCH				

13:40-15:00	Concurrent Sessions				
	Concurrent Session 6A Hunter Room Theme 2. Emission control	Concurrent Session 6B Cummings Room Theme: 1. Sustainable and clean energy production	Concurrent Session 6C Mulubinba Room Theme: 5. Green Engineering and Chemistry	Concurrent Session 6D Newcastle Room Theme: 2. Emission control	Concurrent Session 6E Waratah Room Theme: 2. Emission control
13:40	<u>Prof. Zhanggen Huang</u> <i>Institute of Coal Chemistry, Chinese Academy of Sciences</i> Paper #133 - Effect of oxygen functional groups on activated carbon for selective catalytic reduction of NO with NH ₃	<u>Zhenghua Li</u> , Chengbin Li, Gyoung Hee Hong, Prof. Ji Man Kim <i>Department of Chemistry, Sungkyunkwan University</i> Paper #42 - Oxidative Desulfurization of Dibenzothiophene over WOX catalysts supported on highly ordered mesoporous SnO ₂ , CeO ₂ and Co ₃ O ₄	Keynote: Muxina Konarova <i>Australian Institute of Bioengineering and Nanotechnology, The University of Queensland</i> Multi-scale catalyst engineering for sustainable production of fuels and chemicals (40 minute presentation)	<u>Dominik Seeburg</u> <i>Leibniz Institut für Katalyse e.V</i> Paper #233 - Supports with Advanced Redoxactivities Improve the Pd Catalyzed Methane Combustion	<u>Guangyan Xu</u> <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i> Paper #356 - The effect of H ₂ O on H ₂ -C ₃ H ₆ -SCR of NO _x over Ag/Al ₂ O ₃ catalyst
14:00	<u>Prof. Do Heui Kim</u> <i>Seoul National University</i> Paper #142 - Low temperature NO adsorption over Pd supported on Ce-based and zeolite catalysts for cold start application	<u>Omid Mowla</u> <i>University of Newcastle</i> Paper #315 - Impact of external and internal diffusion on soybean oil hydroesterification over BEA zeolit		<u>Adrien Serve</u> , Dr Fabrizio Puleo, Dr Leonarda Francesca Liotta, Dr Valeria La Parola, Prof. Anne Giroir-Fendler, Dr Alexandre Westermann, Dr Philippe Vernoux <i>Institute de Recherches sur la Catalyse et l'Environnement de Lyon (IRCELYON)</i> Paper #290 - Co ₃ O ₄ -CeO ₂ -CuO mixed oxide catalysts for diesel soot oxidation: Co ₃ O ₄ content effect	<u>Dr Jia Yang</u> , Dr Rune Lødeng, Prof. Hilde Venvik <i>Sintef Materials and Chemistry</i> Paper #244 - Co and Ni spinel catalysts for low temperature methane total oxidation
14:20	<u>Dr Todd Toops</u> , Dr Eleni Kyriakidou, Dr Jae-Soon Choi, Dr James Parks <i>Oak Ridge National Laboratory</i> Paper #291 - A comparative study of ZSM-5 and BEA-Zeolites for hydrocarbon trap applications under "cold-start" conditions	<u>Ksenia Nadeina</u> <i>Borekov Institute of Catalysis SB RAS</i> Paper #239 - Amorphous silica-alumina – perspective supports for selective hydrotreating of FCC gasoline	<u>Prof. Virendra Rathod</u> <i>Institute of Chemical Technology</i> Paper #248 - Use of enzyme from orange peel as a biocatalyst in solvent free system for synthesis of Linallyl acetate	<u>Prof. Masakuni Ozawa</u> <i>Nagoya University</i> Paper #220 - Oxygen storage capacity of new type ceria zirconia support and three way catalysis of supported platinum catalyst	<u>Dr Yang Yang</u> <i>Institute of Process Engineering, Chinese Academy of Sciences</i> Paper #348 - Promotional effect of Cl-doped V ₂ O ₅ TiO ₂ catalyst for elemental mercury oxidation
14:40	<u>Prof. Masaru Ogura</u> <i>The University of Tokyo</i> Paper #314 - Temperature-swing method for NO direct decomposition using microwave and zeolitic NO selective adsorbent	<u>Dr Yijiao Jiang</u> <i>Macquarie University</i> Paper #344 - Analysis of the promoted activity and molecular mechanisms of H ₂ production on metal-TiO ₂ photocatalysis	<u>Takuro Sasaki</u> , Prof. Nobuyuki Ichikuni, Prof. Takayoshi Hara, Prof. Shogo Shimazu <i>Chiba University</i> Paper #191 - Study on the promoting effect of nickel silicate for 1-phenylethanol oxidation on supported NiO nanocluster catalysts	<u>Dr Aleksey Vedyagin</u> , Dr Alexander Volodin, Dr Roman Kenzhin, Dr Vladimir Stoyanovskii, Dr Vladimir Rogov, Dr Vladimir Kriventsov, Dr Ilya Mishakov <i>Borekov Institute of Catalysis and National Research Tomsk Polytechnic University</i> Paper #183 - The Role of Chemisorbed Water in Formation and Stabilization of Active Sites on Pd/Alumina Oxidation Catalysts	<u>Dr Changbin Zhang</u> <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i> Paper #317 - Insights into the Exceptional Photocatalytic Activity of Fluorinated TiO ₂ with Exposed (0 0 1) Face
15:00-15:20	AFTERNOON TEA				

15:20-17:00	Concurrent Sessions				
	Concurrent Session 7A Hunter Room Theme: 1. Sustainable and clean energy production	Concurrent Session 7B Cummings Room Theme 2. Emission control	Concurrent Session 7C Mulubinba Room Theme: 5. Green Engineering and Chemistry	Concurrent Session 7D Newcastle Room Theme: 1. Sustainable and clean energy production	Concurrent Session 7E Waratah Room Theme: 2. Emission control
15:20	<u>Chengbin Li</u> , Zhenghua Li, Gyoung Hee Hong, Hye Jin Cho, Prof. Ji Man Kim <i>Department of Chemistry, Sungkyunkwan University</i> Paper #43 - Ordered mesoporous Cu-Mn-Ce ternary catalysts for low temperature water-gas shift reaction	<u>Andreas Gaenzler</u> , Dr Maria Casapu, Dr Henning Lichtenberg, Prof. Jan-Dierk Grunwaldt <i>Karlsruhe Institute of Technology (KIT)</i> Paper #278 - Activating Ceria based catalysts – an operando study	<u>Zhe Liu</u> <i>Queensland University of Technology</i> Paper #118 - Selective reduction of nitroaromatics to azoxy compounds on supported Ag-Cu alloy nanoparticles through visible light irradiation	<u>Prof. Shaobin Wang</u> <i>Curtin University</i> Paper #57 - Co3O4 nanocrystals on g-C3N4 as a photoelectrochemical catalyst for water oxidation	<u>Dr Hiroshi Yoshida</u> , Satoshi Misumi, Dr Satoshi Hinokuma, Prof. Masato Machida <i>Department of Applied Chemistry and Biochemistry, Kumamoto University</i> Paper #93 - Novel preparation of nanolayer Rh catalyst using arc-plasma deposition for automotive catalytic reactions
15:40	<u>Prof. Wen-Feng Lin</u> <i>Loughborough University</i> Paper #240 - Synthesis, Structure, Reactivity and Catalysis of Pd Based Nanocatalysts for Direct Ethanol Fuel Cell Application	<u>Yong Liao</u> , Prof. Shijian Yang <i>Nanjing University of Science and Technology</i> Paper #134 - MnOx supported on Fe-Ti spinel: A novel Mn based low temperature SCR catalyst with a high N2 selectivity	No Presentation	<u>Matthew Witham</u> <i>Curtin University</i> Paper #182 - Steam Gasification of Naphthalene over Metal-Loaded Biochars	<u>Prof. Ai-Min Zhu</u> <i>Dalian University of Technology</i> Paper #312 - In-situ regeneration of Au nanocatalysts by atmospheric-pressure pulsed air plasma
16:00	<u>Ryan Loe</u> , Dr Eduardo Santillan-Jimenez, Dr Mark Crocker <i>University of Kentucky Center for Applied Energy Research</i> Paper #83 - Catalytic Deoxygenation of Model and Realistic Lipid Feeds to Fuel-like Hydrocarbons over Supported Nickel Alloy Catalysts	<u>Dr Huazhen Chang</u> , Prof. Junhua Li, Prof. Jiming Hao <i>Renmin University of China</i> Paper #237- Design strategies of surface acidity-basicity for SCR catalysts for simultaneous removal of NOx and HgO	Keynote: Dr Justin Hargreaves <i>School of Chemistry, University of Glasgow</i> Cobalt rhenium catalysts for ammonia decomposition and synthesis (40 minute presentation)	<u>Roong Jien Wong</u> , Dr Jason Scott, Dr Gary Low, Prof. Rose Amal <i>University of New South Wales</i> Paper #328 - Plasmon enhancement of bimetallic AuPt on TiO2 via visible light pre-illumination for catalytic oxygen activation	<u>Assoc. Prof. Yexin Zhang</u> <i>Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences</i> Paper #139 - Mechanism of Potassium Catalyzing Carbon Oxidation: from Oxygen Transfer to Electron Transfer
16:20	<u>Ai Nozaki</u> , Yasutomo Tanihara, Dr Yasutaka Kuwahara, Tetsutaro Ohmichi, Dr Kohsuke Mori, Prof. Hiromi Yamashita <i>Osaka University</i> Paper #122 - Catalytic performances of skeletal Au catalysts prepared from Au-Zr amorphous alloy	<u>Xueting Lin</u> <i>School of Environment and Energy, South China University of Technology</i> Paper #148 - Soot Combustion over CeO2-MnOx Mixed Oxides: Evolution of Surface Oxygen Vacancies		<u>Prof. Jerry Wu</u> <i>Feng Chia University</i> Paper #136 - Fabrication of Hierarchical Bismuth Oxyhalides (BiOX, X = Cl, Br, I) Materials and Application of Photocatalytic Hydrogen Production from Water Splitting	<u>Dr Haitao Zhao</u> <i>The University of Nottingham</i> Paper #28 - Selective catalytic reduction (SCR) of NO by NH3 over MnMoO ₄ /γ-Al ₂ O ₃ catalysts
16:40	<u>Prof. Young-Kwon Park</u> , Heejin Lee, Hyung Won Lee, Dr Young-Min Kim, Prof. Sung Hoon Park, Prof. Sang-Chul Jung, Prof. Sang Chai Kim, Prof. Jong-Ki Jeon <i>School of Environmental Engineering, University of Seoul</i> Paper #234 - Effect of biomass pretreatment on the catalytic copyrolysis of biomass and polymer	<u>Yazhao Li</u> , Prof. Zhen Zhao, Prof. Yuechang Wei, Prof. Jian Liu, Dr Baofang Jin, Xindong Zhang <i>China University of Petroleum</i> Paper #323 - Design and Synthesis of the Highly Active Catalysts of Cu@Pt Core-shell Nanoparticles Supported on 3DOM ZrO2 for Soot Combustion	<u>Prof. Zhong Li</u> , Prof. Jing Xiao, Guang Miao, Xiaoling Ren <i>South China University of Technology</i> Paper #367 - Visible-light induced photocatalytic oxidative desulfurization using BiVO ₄ /C ₃ N ₄ @SiO ₂ with air/cumene hydroperoxide under ambient conditions	<u>Dr Elsie Alessandra Quadrelli</u> <i>CNRS CPE Lyon University, Lyon 1</i> Paper #12 Photocatalytic CO ₂ Reduction Utilizing MOF-anchored Cp*Rh-based Catalysts	<u>Huawang Zhao</u> , Prof. Yongdan Li <i>Tianjin University</i> Paper #95 - The deactivation and regeneration of SO ₂ poisoned Cu-SSZ-13 for the selective catalytic reduction of NO _x with NH ₃
17:00-18:00	POSTER SESSION 2 Sustainable and clean energy production Indoor air cleaning Green Engineering and Chemistry				CONCERT HALL
19:00-20:00	Conference Dinner - Noah's on the Beach Bus Transfers from/to hotels, please see registration desk staff for further information.				

08:00	Registration				Civic Theatre Foyer
09:00-09:05	Welcome to Day 3				Civic Theatre
09:05-10:05	Professor Xinhe Bao Understanding Nano Confinement Effects in Catalysis <i>State Key Laboratory of Catalysis, Institute of Chemical Physics, Chinese Academy of Sciences</i>				Civic Theatre
10:05-10:30	MORNING TEA				
10:30-12:30	Concurrent Sessions				
	Concurrent Session 8A Hunter Room Theme: 1. Sustainable and clean energy production	Concurrent Session 8B Cummings Room Theme 2. Emission control	Concurrent Session 8C Mulubinba Room Theme: 5. Green Engineering and Chemistry	Concurrent Session 8D Newcastle Room Theme: 1. Sustainable and clean energy production	Concurrent Session 8E Waratah Room Theme: 2. Emission control
10:30	<u>Prof. Kuo-Tseng Li</u> <i>Tungshai University</i> Paper #47 - Aqueous-phase hydrogenolysis of glycerol over Re promoted Ru catalysts encapsulated in porous silica nanoparticles	Keynote: Dr Roderick Althoff Clariant High-silica zeolites in environmental catalysis <i>(40 minute presentation)</i>	<u>Dr Matthew Lui</u> <i>The University of Sydney</i> Paper #121 - Masked N-Heterocyclic Carbene-Catalysed Alkylation of Phenols with Organic Carbonates	<u>Dr Antonio Ricca, Prof. Vincenzo Palma, Biagio Addeo, Gaetano Paolillo, Maurizio Rea, Prof. Paolo Ciambelli</u> <i>University of Salerno</i> Paper #306 - A Thermally Integrated ATR based System for Distributed H ₂ Production	<u>Dr Diego Lopez Gonzalez, Dr Julien Couble, Dr Mimoun Aouine, Laurence Massin, Pascale Mascunan, Javier Diez Ramirez, Dr Michaela Klotz, Dr Caroline Tardivat, Dr Philippe Vernoux</u> <i>Institut de recherches sur la catalyse et l'environnement de Lyon (IRCELYON)</i> Paper #99 - Activation of Pd-CeMO ₂ based catalysts (M=Gd, Zr) for propane combustion.
10:50	<u>Prof. Gongxuan Lu</u> <i>Lanzhou Inst Chem Phys, CAS</i> Paper #379 - Enhanced CO ₂ methanation activity over Ni@MOF-5 catalyst		<u>Wibawa Hendra Saputera, Dr Jason Anthony Scott, Prof. Rose Amal, Dr Gary Low</u> <i>University of New South Wales</i> Paper #333 - Revealing the key oxidative species generated by Pt catalysts under dark and light conditions	<u>Concetta Ruocco</u> <i>University of Salerno</i> Paper #264 - Coke resistant Pt-Ni catalysts supported on rare earth oxides for low-temperature bioethanol reforming	<u>Dr Xuehua Yu, Prof. Zhen Zhao, Dr Yuechang Wei, Prof. Jian Liu</u> <i>Shenyang Normal University</i> Paper #193 - Three-dimensionally ordered macroporous SiO ₂ -supported metal-oxide catalysts: Synthesis, characterization and excellent catalytic performance for soot combustion
11:10	<u>Dr Yongming Luo, Dr Xiaofeng Li, Dr Jing Wang, Dr Lei Zhang, Dr Yanqiu Lei, Dr Pan Liu, Dr Ran Chen, Dr Kezhen Chen, Dr Sufang He</u> <i>Kunming University of Science and Technology</i> Paper #296 - Hydrogen production through methanol steam reforming over Ni/Al ₂ O ₃ based catalysts: The role of rare earth (Ce and Pr) addition	<u>Prof. Junhua Li</u> <i>Tsinghua University</i> Paper #155 - Comparison of Cu-SSZ-13 and Cu-SAPO-34 catalysts for NH ₃ -SCR of NO _x in Diesel emission control	<u>Mahiro Shirotori, Dr Shun Nishimura, Prof. Kohki Ebitani</u> <i>School of Materials Science, Japan Advanced Institute of Science and Technology</i> Paper #190 - Effect of Cr loading amount in the Cr/Mg-Al layered double hydroxide mediated one-pot transformation of xylose to furfural	<u>Dr Alex Yuen</u> <i>The University of School</i> Paper #392 - From Plant to Plant - Hydrothermal Conversion of Algal Biomass	<u>Prof. Yun Guo, Dr Yang Lou</u> <i>Arizona State University</i> Paper #22 - Low-temperature methane combustion over Pd/H-ZSM-5: the synergistic effects of Pd electronic states and acidity of support
11:30	<u>Kazuki Nakatsuka, Dr Yasutaka Kuwahara, Dr Kohsuke Mori, Prof. Hiromi Yamashita</u> <i>Osaka University</i> Paper #200 - The photo-assisted deposition method for the preparation of Ru nanoparticles using fullerene C ₆₀ incorporating SBA-15	<u>Prof. Masato Machida</u> <i>Kumamoto University</i> Paper #10 - DeNO _x activity of Rh/metal phosphates under A/F perturbation conditions	No Presentation	<u>Prof. Yongdan Li</u> <i>Tianjin University</i> Paper #94 - Catalytic valorization of Kraft lignin to aromatics over an Al ₂ O ₃ supported Mo ₂ N catalyst	<u>Xindong Zhang, Prof. Zhen Zhao, Prof. Yuechang Wei, Dr Yazhao Li, Dr Baofang Jin</u> <i>State Key Laboratory of Heavy Oil Processing, China University of Petroleum</i> Paper #329 - High Efficient Catalysts of Pt@Co ₃ O ₄ core-shell Nanoparticles Supported on 3DOM Oxides for Soot Combustion
11:50	<u>Dr Stylianos Neophytides, Dr Dimitris Niakolas, Charalabos Neofytidis</u> <i>Foundation of Research and Technology Hellas – Institute of Chemical Engineering Sciences (FORTH-ICE/HT)</i> Paper #157 - Carbon and Sulfur tolerant anodes for SOFCs	<u>Prof. Michiel Makkee</u> <i>Delft University of Technology</i> Paper #67 - The role of ceria in NO _x reduction by hydrocarbons and the possible reaction pathway in Toyota's Di-Air system	<u>Prof. Ying Wan, Shuai Wang</u> <i>Shanghai Normal University</i> Paper #18 - Aggregation-free Gold Nanoparticles in Ordered Mesoporous Carbons: Towards Highly Active and Stable Heterogeneous Catalysts for Selective Oxidation of Alcohols	<u>Lijun Fan, Dr Yicheng Zhao, Ping Li, Prof. Yongdan Li</u> <i>Tianjin University</i> Paper #96 - A single layer solid oxide fuel cell composed of La ₂ NiO ₄ and doped ceria-carbonate fed with methanol	<u>Long Tang, Prof. Zhen Zhao, Dr Yuechang Wei, Prof. Jian Liu, Yaozhao Li</u> <i>China University of Petroleum</i> Paper #196 - Study on the Coating of LaCoO ₃ Perovskite-type Complex Oxide Catalysts on the Diesel Particulate Filter
12:10	No Presentation	<u>Loredana Mantarosie</u> <i>Johnson Matthey Technology Centre</i> Paper #163 - Low temperature NO storage of zeolite supported Palladium for low temperature diesel engine emission control	<u>Prof. Shaobin Wang</u> <i>Curtin University</i> Paper #74 - Solvothermal synthesis of carbonaceous hybrid materials for photocatalysis and photoelectrochemical applications	<u>Dr Rongshu Zhu, Dr Fei Tian</u> <i>Harbin Institute of Technology Shenzhen Graduate School</i> Paper #353 - The Photocatalytic Performance for H ₂ Generation and The Degradation of Organic Pollutant over Z Scheme Photocatalyst under Visible Light	<u>Dr Adi Setiawan</u> <i>Malikussaleh University and the University of Newcastle</i> Paper #219 - Combustion of lean methane mixtures over Pd-Co supported on titanium silicalite zeolite catalyst

12:30-13:30	LUNCH				
13:30-14:50	Concurrent Sessions				
	Concurrent Session 9A Hunter Room Theme 2. Emission control	Concurrent Session 9B Cummings Room Theme: 3. Indoor air cleaning	Concurrent Session 9C Mulubinba Room Theme 2. Emission control	Concurrent Session 9D Newcastle Room Theme: 4 Water Treatment	Concurrent Session 9E Waratah Room Theme: 5. Green Engineering and Chemistry
13:30	<u>Zhenguo Li</u> <i>Tsinghua University</i> Paper #214 - Synthesis and evaluation of high surface area ZSM-5 zeolite and CuZSM-5 catalyst for ammonia selective catalytic reduction: Studies of simulated exhaust and engine bench testing	<u>Fei Wang</u> , Prof. Changbin Zhang, Qingcai Feng, Prof. Hong He <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i> Paper #318 - Low-temperature selective catalytic oxidation of ammonia to nitrogen over Ag/SiO ₂ -TiO ₂ catalysts	<u>Dr Graeme Puxty</u> <i>CSIRO Energy</i> Paper #382 - Catalysis of CO ₂ absorption in aqueous solution by inorganic oxoanions and their application to post combustion capture	<u>Prof. Fengyun Wang</u> , Prof. Wu Lei <i>Nanjing University of Science and Technology</i> Paper #394 - Preparation of a Water-dispersible g-C ₃ N ₄ Photocatalyst by a Simple Chemical Method	<u>Shuohan Yu</u> , Ningxin Jiang, Weixin Zou, Lulu Li, Dr Changjin Tang, Prof. Lin Dong <i>Nanjing University</i> Paper #310 - A general and inherent strategy to improve the water tolerance of low temperature NH ₃ -SCR catalysts via trace SiO ₂ deposition
13:50	<u>Francesco Montecchio</u> , Henry Persson, Damiano Trento, Klas Engvall, Jack Delin, Roberto Lanza <i>KTH – Royal Institute of Technology</i> Paper #288 - Synthesis, characterization and screening of TiO ₂ -based photocatalysts in an innovative stagnation-point reactor for VOCs removal applications	<u>Prof. Lingxia Zhang</u> <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i> Paper #384 - Partially crystallized mesoporous MnOx for catalytic oxidation removal of low-concentration HCHO	<u>Prof. Zhenping Qu</u> <i>Dalian University of Technology</i> Paper #385 - Selective catalytic oxidation of NH ₃ to N ₂ over Cu-Ce-Zr catalyst and its reaction mechanism	<u>Prof. Fengyun Wang</u> <i>Nanjing University of Science and Technology</i> Paper #396 - Synthesis, characterization and photocatalytic properties of mpg-C ₃ N ₄ /BiVO ₄ /TiO ₂	<u>Prof. Jinli Zhang</u> <i>Tianjin University</i> Paper #287 - A triphenylphosphine-ligated gold-based catalyst for acetylene hydrochlorination
14:10	<u>Prof. Isabella Nova</u> , Prof. Enrico Tronconi, Dr Maria Pia Ruggeri, Dr Jillian Collier, Dr Andy York <i>Politecnico di Milano</i> Paper #109 - Comparison of different Cu-based zeolite catalysts in the NH ₃ -SCR reactions	<u>Zhi-Guang Sun</u> , Prof. Ai-Min Zhu <i>Dalian University of Technology</i> Paper #36 - Photocatalytic removal of formaldehyde from air over hydro-oxygenated amorphous titania (α-TiOx:OH) films: approaching zero-order kinetics	<u>Dr Zongli Xie</u> <i>CSIRO Manufacturing</i> Paper #283 - Iron-Cobalt oxide catalysts for N ₂ O decomposition	<u>Prof. Chenglin Sun</u> , Yamin Wang, Wenjing Sun, Dr Huangzhao Wei <i>Dalian National Laboratory for Clean Energy, Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Paper #25 - The Extended Mechanism of Ammonia Conversion to N ₂ by Ru _{0.2} TiZrO ₄ Catalyst in Catalytic Wet Air Oxidation	<u>Dr Jingjing Jiao</u> , Prof. Zhen Zhao, Prof. Yuechang Wei, Prof. Aijun Duan, Prof. Jian Liu, Prof. Guiyuan Jiang <i>State Key Laboratory of Heavy Oil Processing, China University of Petroleum</i> Paper #363 - Design and synthesis of 3DOM TiO ₂ -supported Au@CdS core-shell nanoparticles for the photocatalytic reduction of CO ₂ with H ₂ O
14:30	<u>Kuan Lun Pan</u> <i>National Central University</i> Paper #277 - Removal of toluene from gas streams by combining plasma and double perovskite-type catalyst	No Presentation	<u>Qi Xin</u> , Prof. C. Philippopoulos, Prof. N.G. Papayannakos, Prof. Vera Meynen, Prof. Pegie Cool <i>University of Antwerp</i> Paper #32 - Ammonia based preparation of copper loaded heterogeneous catalyst with effective automotive CO and hydrocarbons conversion	<u>Prof. Jing Xiao</u> , Xiyi Li, Yunhong Pi, Prof. Zhong Li <i>South China University of Technology</i> Paper #354 - TiO ₂ encapsulated in Salicylaldehyde-NH ₂ -MIL-101(Cr) for enhanced visible light-driven photodegradation of MB	<u>Prof. Weidong Zhu</u> , Dr Yanghe Fu, Long Sun, Huan Yang, Lai Xu, Dr Fumin Zhang <i>Zhejiang Normal University</i> Paper #26 - Aerobic photocatalytic oxidation of aromatic alcohols to aldehydes over Ni-doped NH ₂ -MIL-125(Ti) upon visible light irradiation
14:50-15:10	AFTERNOON TEA				



15:10-16:50	Concurrent Sessions			
15:10	Concurrent Session 10A Theme: 2. Emission control <i>Hunter Room</i>	Concurrent Session 10B Theme: 4 Water Treatment <i>Cummings Room</i>	Concurrent Session 10C Theme: 1. Sustainable and clean energy production <i>Mulubinba Room</i>	Concurrent Session 10D Theme 5: Green Engineering and Chemistry <i>Newcastle Room</i>
15:30	<u>Prof. Ruifeng Li</u> <i>Taiyuan University of Technology</i> Paper #242 - Selective catalytic reduction of NO by CH ₄ in the presence of excess oxygen over Mn-exchanged H-Beta@Y zeolite	No Presentation	<u>Prof. Albin Pintar</u> , Dr Petar Djinović, Dr Gorazd Berčič, Špela Božič <i>National Institute of Chemistry</i> Paper #52 - Catalytic depolymerization kinetics of waste plastics to olefins over natural aluminosilicates	<u>Zhirong Zhu</u> <i>Department of Chemistry, Tongji University</i> Paper #391 - Esterification synthesis of biodiesel over silica-supported heteropolyacid prepared by impregnating and in-situ sol-gel methods
15:50	<u>Dr Xiaolong Liu</u> <i>Institute of Process Engineering, Chinese Academy of Sciences</i> Paper #216 - Catalytic oxidation of benzene over Ru-based bimetallic catalysts	<u>Dan Chen</u> , Prof. Jinyou Shen, Xinbai Jiang, Prof. Lianjun Wang <i>Nanjing University of Science and Technology</i> Paper #39 - Fabrication of polypyrrole/MnO ₂ composite onto graphite felt electrode and its application in catalytic degradation of phenol in bioelectrochemical system	<u>Dr Anna Maria Venezia</u> , Dr Giuseppe Pantaleo, Dr Valeria La Parola, Dr Francesca Deganello, Dr Raja BAL <i>Institute of Nanostructured Materials, CNR</i> Paper #269 - CeO ₂ supported and unsupported LaNiO ₃ catalysts for partial oxidation of methane	<u>Prof. Yutaka Amao</u> , Ryota Kataoka <i>Osaka City University</i> Paper #187 - Methanol production from CO ₂ with the hybrid system of biocatalyst and photocatalyst
16:10	<u>Tuomas Nevanpera</u> <i>University of Oulu</i> Paper #271 - Catalytic oxidation of dimethyl disulphide (CH ₃ SSCH ₃) using Au, Pt and Cu catalysts supported on alumina, ceria and ceria-alumina	<u>Mario Velasquez</u> <i>Mario 126</i> Paper #171 - Catalytic degradation of violet crystal (V.C) by advanced oxidation processes using bi- and tri- metallic catalyst based on iron, aluminum and silver	<u>Priyanka Verma</u> , Dr Yasutaka Kuwahara, Prof. Kohsuke Mori, Prof. Hiromi Yamashita <i>Osaka University</i> Paper #103 - Design of Pd/Ag bimetallic nanocatalyst for plasmon-mediated catalysis under visible light irradiation	<u>Dr Fabio Lorenzini</u> , Yueming Wang, Yueyuan Ma, Xiaohan Liu, Dr Martin Rebros, Dr Andrew C. Marr <i>The Queen's University of Belfast</i> Paper #225 - Adding value to glycerol by combining chemo- and bio-catalysis: synthesis of value-added chemicals from 1,3-propanediol via hydrogen transfer catalysed by highly recyclable Cp*Ir(NHC) catalysts
16:30	<u>Dr Todd Toops</u> <i>Oak Ridge National Laboratory</i> Paper #381 - Impact of Metal Impurities Present in Biodiesel on Catalyst Durability	<u>Prof. Shaobin Wang</u> <i>Curtin University</i> Paper #48 - Emerging nonradical pathway from carbocatalysis for metal-free oxidation	<u>Dr Ryo Watanabe</u> , Shuhei Watanabe, Nozomu Hirata, Prof. Choji Fukuhara <i>Shizuoka University</i> Paper #203 - Effect of promoter addition on water gas shift property of iron-oxide-type structured catalyst	<u>Gizelle Sanchez Combata</u> <i>Priority Research Centre for Energy (PRCFE), University of Newcastle</i> Paper #390 - Valorisation of waste glycerol by means of allyl alcohol production over [Fe]-ZSM5 catalysts
16:50	<u>Dr Peng Pu</u> <i>Institute of New Energy, China University of Petroleum</i> Paper #189 - An enhanced De-NO _x method by post-plasma catalysis and in-plasma catalysis at low temperature	<u>Dr Wei Wang</u> , Prof. Zongping Shao <i>Curtin University</i> Paper #149 - Facile synthesis of LaFeO ₃ microspheres with enhanced photocatalytic activity for wastewater treatment	<u>Xiaotong Xiaotong</u> , Prof. Zhen Zhao, Prof. Yuechang Wei, Xiaotong Huang <i>China University of Petroleum</i> Paper #343 - Tetramethylguanidine surface-modified Titanium dioxide as an efficient catalyst for the photocatalytic reduction of carbon dioxide	<u>Prof. Kuen-Song Lin</u> , Chao-Lung Chiang, Chia-Wei Shu, Prof. Jeffrey C.S. Wu, Prof. Kevin Chia-Wen Wu, Prof. Yu-Tzu Huang <i>Department of Chemical Engineering and Materials Science, Yuan Ze University</i> Paper #250 - Synthesis and Characterization of Solid Superbasic/Superacidic Catalysts for Biodiesel Production
17:00-17:20	Closing Address			<i>Cummings Room</i>

