Day- 1 April 08, 2019

07:00 - 07:50  Registrations
07:50 - 08:00  Introduction
Moderator: Pedro Castano, University of the Basque Country, Spain

Keynote Session
Towards an Industrial Production of Hydrogen through Catalytic Autothermal POX/Dry Reforming of Methane
Nicolas Abatzoglou, University of Sherbrooke, Canada

Oxidative Dehydrogenation of Propane (ODH) into Propylene on Metal-Containing Zeolite Catalytic Systems
Stanislaw Dzwigaj, Sorbonne University, France

Predictive Heterogeneous Catalysis by Design: Well-Defined Single-site Catalysts
Jean-Marie Maurice Basset, KAUST Catalysis Centre, Saudi Arabia

Photo-Fenton Process for Decolorization of Methyl Orange: Co(II)-Adsorbed Admicellar Soft-Template on Alumina Support as a Heterogeneous Catalyst
Anjali Pal, Indian Institute of Technology, India

10:00 - 10:20  Coffee Break

10:20 - 10:50  Transition Metal Catalyzed Selective B-H Functionalization of Carboranes
Zuowei Xie, The Chinese University of Hong Kong, China

Chromism of Phosphomolybdate-dye Moiety: A Stimulating Matrix for Nitrogen and Oxygen Binding
Tarasankar Pal, Indian Institute of Technology, India

Session 1: Environmental Catalysis & Energy Processing
Chairs: Stefano Falcinelli, University of Perugia, Italy
        Nishith Verma, Indian Institute of Technology Kanpur, India

Hydrodechlorination of Trichloroethylene Using Pd Catalysts Supported on Swellable Organically Modified Silica (Soms)
Umit S. Ozkan, Ohio State University, USA

The Role of K, Rh and Ce in the Di-Air NOx Abatement Technology for the Highly Selective and Reactive Reduction of NO Into N2
Michiel Makkee, Delft University of Technology, Netherlands

Catalytic Reduction of NO by CO with Cu-based and Mn-based catalysts
Moo Been Chang, National Central University, Taiwan

Laccase-Electrospun Fibers as an Effective Tools for Environmental Single-Atom Dispersed Co-N-C: A Novel Adsorption-Catalysis Bifunctional Material for Rapid Removing Bisphenol A
Jakub Zdarta, Poznan University of Technology, Poland

12:40 - 13:00  Lunch Break
Mantang Chen, Huazhong University of Science and Technology, China
Processing of Organochlorine Waste over Self-Organizing Ni-Pt Catalysts
with formation of Segmented Carbon Nanofibers
Ilya Mishakov, Boreskov Institute of Catalysis, Russian Federation

13:00 - 13:20

13:20 - 14:00 Lunch Break

Mathematical Modelling of Lipase Catalysed Biodiesel Synthesis in a
Microreactor
Bruno Zelic, University of Zagreb, Croatia

14:00 - 14:20

Enhancement of Biodiesel Production via Sequential Esterification and
Kuen-Song Lin, Yuan Ze University, Taiwan
Reductive Debromination of Polybrominated Diphenyl Ethers: Dependence
on Br number of the Br-rich Phenyl Ring
Shun Guo, Huazhong University of Science and Technology, China
Understanding the Lifetime of Ni Supported Catalysts during the Steam
Reforming of the Oxygenated Volatiles Derived from Biomass Pyrolysis
Pedro Castano, University of the Basque Country, Spain

14:20 - 14:40

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14:40 - 15:00

Fuel Production From Waste Co2 Using Renewable Energies
Stefano Falcinelli, University of Perugia, Italy
Structure and Surface Engineering of Metal-based Materials for Energy
Applications
Jia Ding, Tianjin University, China

15:00 - 15:20

15:20 - 15:40

Fuel Production From Waste Co2 Using Renewable Energies
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15:40 - 16:00

16:00 - 16:20

16:20 - 16:40 Coffee Break

Production of Green Diesel From Karanja Oil using Ordered Mesoporous
Nickel-Alumina Composite Catalyst
Sunil K. Maity, IIT Hyderabad, India
Hydrodeoxygenation of M-Cresol and Guaiacol over Bimetallic Fe-Alloyed
(Ni,Pt) Surfaces: Kinetics and Thermodynamics Insight Into Reaction
Mechanism
Wei An, Shanghai University of Engineering Science, China
The Fluid Catalytic Cracking Process: Sustained Innovation in Catalyst
Technology
Stefano Riva, BASF, Italy
The Influence of Preparation Methods on the Catalytic Performance of MgF2
for the dehydrofluorination of 1,1-Difluoroethane (HFC-152a)
Lichun Li, Zhejiang University of Technology, China
New Photocatalytic Luminous Textiles for the Treatment of Wastewater
Issued
Aymen Assadi, ENSCR – Service Facturier Campus, France
Kinetics of Thermal Degradation Applied to Bioplastics with Natural Fibers
by Non-Isothermal Processes
Jyoti Jain, Indian Institute of Technology Roorkee, India

16:30 - 18:00 Poster Presentations

Flat-deformation Model of the Process of Powder Deaeration in a Roller
ACCP001
Apparatus with a Spherical Matrix
Kapranova Anna, Yaroslavl State Technical University, Russian Federation

**ACCP002**
Synthesis of Ionic Liquid Grafted on Solid Support as Heterogeneous Catalyst for Transesterification of Yellow Grease to Biodiesel using Ethanol

**ACCP003**
Autothermal Reforming to Syngas

**ACCP004**
Dynamic Heterogeneous Reactor Modeling for the Dry Reforming of Biogas

**ACCP005**
Using a Novel Contaminant-Resistant Catalyst Modelling and Optimization of The Auto Thermal Reforming of Crude Glycerol Using Response Surface Methodology and Artificial Neural Hussameldin Ibrahim, University of Regina, Canada

Steam Methane Reforming Over Ni Based Catalyst Supported by Various Zeolites for Application in the Hydrogen Station

Dong Ju Moon, Korea institute of science and technology, South Korea

Synthesis of Perovskites-Like Pbbio2 I/Go Composites Enhanced Visible-Light-Driven Photocatalytic Activity

Yong-Ming Dai, National Taichung University of Education, Taiwan

Performance of Hexagonal Boron Nitride As Catalyst for Cwpo of Asuncion Quintanilla, Autonomous University of Madrid, Spain

Destruction Behaviours and Mechanism of Naproxen by Hybrid Tio2 Photocatalytic System with Process Component

Sang-Chul Jung, Sunchon National University, South Korea

Synthesis of Polymer Films with Catalytic Additives By Volatile Products

Kuchmenko Tatiana, Voronezh State University of Engineering Technology, Russia

Catalytic Co-Pyrolysis of Biopolymer and Synthetic Polymer over Various Kinds of Zeolites

Young-Kwon Park, University of Seoul, South Korea

Catalytic CO Oxidation on Supported and Unsupported Chromia and Alumina Nanoparticles

Asma Abdulkareem Ali, Public Authority of Applied Education and Training, Kuwait

Application of A High-Resolution Mass Spectrometry and CID in Analysis of Selected Rhenium Complexes

Martin Sticha, Charles University, Czech Republic

TiO2 /Graphene Hybrids as Photocatalytic Self-Cleaning Smart Surfaces

Nisha T P, Cochin University of Science and Technology, India

Ultrasonic-Assisted Green Synthesis of B-Amino Carbonyl Compounds by L Satish Kumar Achary, National Institute of Technology Rourkela, India

Catalytic Photodegradation of Organophosphate Insecticide Profenofos

Fatin Samara, American University of Sharjah, United Arab Emirates

Mn/Co Binary Metal Catalysts Supported on Two Commercial Diatomaceous Jun He, University of Nottingham, China

Photocatalytic Degradation of Methyl-Tert-Butyl-Ether (Mte) from Waste Water Using Photocatalysts Based on Titanium Dioxide

Marcel Sihor, VSB – Technical University of Ostrava, Czech Republic
Kinetic Analysis of the Photocatalytic Degradation of Ethylene over TiO2 Thin Films in a Batch Reactor
Rodica Elisabeta Stroe, Aalborg University, Denmark

Tuning of Gas Diffusion Layer by CNx Intermediate Film for Higher Performance in Proton Exchange Membrane Fuel Cell
Jaroslava Novakova, Charles University, Czech Republic

Production of Hydrogen via CO2 Dry Reforming of Methane over 40LaNi0.75 Fe x M 0.25-SiO2 (M=Ce, Zr) Perovskite Oxide Catalyst
Pradeep Kumar, IIT Roorkee, India

Spectroscopic Investigation of Anchored Vanadium Acetylacetonate on Reduced Graphene Oxide through Silane Coupling and Diazonium Chemistry with High Catalytic Activity
Jemini Jose, CHRIST, India

Silver@Copper Bimetallic Nanoparticles: Seedless Synthesis, Characterization and Catalytic Degradation of Toxic Dye
Wafa Shamsan Al-Arjan and Salma Al-Zahrani, King Abdulaziz University, Saudi Arabia

Effect of Surface Treatment on Water Absorption Kinetics of Natural Fibers and their Reinforced Polymer Composites
Kajal Mishra, Indian Institute of Technology, Roorkee, India

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**Day-2 April 09, 2019**

**Session 2:** Reaction Engineering, Applied & Allied Catalysis, Electro Catalysis

**Chairs**

Umit S. Ozkan, Ohio State University, USA
Philippe M. Heynderickx, Ghent University, South Korea

**08:00 - 08:20**
Sequential Adsorption and CWAO over Cu-Fe-Carbon Nanofiberous Beads
Nishith Verma, Indian Institute of Technology, India

08:20 - 08:40
The Orchestrating Role of The Active-Deactivating Species Dynamics on Zeolites and Zeotypes During Dimethyl Ether and Methanol-To-Olefin Processes
Pedro Castano, University of the Basque Country, Spain

08:40 - 09:00
New Trendy Magnetic C-Scorpionate Iron Catalysts for Sustainable Adipic Acid Production
Luisa Margarida Martins, Ist-Id, Portugal

09:00 - 09:20
Influence of Substituent in Ferrite Structure for Oxygenates formation In Fischer-Tropsch; 1D and 2D Gc Study
Mohamed Fadlalla, University of Cape Town, South Africa

09:20 - 09:40
Isomerization of Pinane
Sunder Lal Pal, Maulana Azad National Institute of Technology, India

**09:40 - 10:00 Coffee Break**

Chemical Deactivation of Cu-SAPO-18 deNOx Catalyst Caused by Basic Inorganic Contaminants in Diesel Exhaust
Shujun Ming, Huazhong University of Science and Technology, China

Application of Soil as a Low-Cost Solid Catalyst for Biodiesel Production
Chiing-Chang Chen, National Taichung University of Education, Taiwan
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:40 - 11:00</td>
<td><strong>Catalysts Development for Ethanol Self- and Cross-Coupling into Alcohols and Olefins</strong>&lt;br&gt;Andrey Chistyakov, A.V.Topchiev Institute of Petrochemical Synthesis Russian Academy of Sciences</td>
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<td>11:00 - 11:20</td>
<td><strong>CO2 Methanation Over Promoted Ni/Al2 O3 and Ni/Al@Al2 O3 Catalysts</strong>&lt;br&gt;Eun Duck Park, Ajou University, South Korea&lt;br&gt;Hypervalent Iodine Oxidative Aromatic Coupling– The Quinone Intermediate Strategy&lt;br&gt;Dohi Toshifumi, Ritsumeikan University, Japan Design and Optimisation of The Structured Co3 O4 -Based deN2 O Catalyst</td>
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<td>12:00 - 12:20</td>
<td><strong>High Selective Hydrogenation of Carbonyl and Hydroxyl Groups Over Sn-M/Al2 O3</strong>&lt;br&gt;Zharova Polina, A.V.Topchiev Institute of Petrochemical Synthesis Russian Academy of Sciences, Russian Federation Acquisition of Nonlinear Kinetics From Linear Relations: Application for Transesterification Reactions and Enzyme Catalysis&lt;br&gt;Philippe M. Heynderickx, Ghent University, South Korea</td>
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<td>12:20 - 13:00</td>
<td><strong>Debye-Einstein Models for Heat Capacities of Crystalline Solids</strong>&lt;br&gt;Ernst Gamsjager, University of Leoben, Austria</td>
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<td>13:00 - 13:20</td>
<td><strong>Catalytic Oxidation of Cyclohexane at Low Temperature</strong>&lt;br&gt;Taraknath Das, Indian Institute of Technology Roorkee, India Effect of Substrate Geometry and Flow Condition on The Turbulence&lt;br&gt;Ivan Cornejo Garcia, University of Alberta, Canada The Electrocatalytic Activity of Metal Could Be Modulated By Surface Mechanical Methods&lt;br&gt;Qibo Deng, Tianjin University of Technology, China Highly Active Anode Catalysts Employing MO2 (M=Ti, Ce)-Embedded Carbon Nanofiber Support for Direct Methanol Fuel Cells&lt;br&gt;Nobuyoshi Nakagawa, Gunma University, Japan X-Ray Absorption Spectroscopic and Electrochemical Investigation of NiCo2O4/Graphene Quantum Dots (GQDs) with Efficient Electrocatalytic Properties for Electrochemical Energy Devices&lt;br&gt;Han-Wei Chang, Tamkang University, Taiwan Association of DBD-plasma/Fixed-bed Catalyst Reactor for VOC Oxidation: Process Optimization and Ozone Valorization&lt;br&gt;Abdelkrim Bouzaza, École Nationale Supérieure de Chimie de Rennes, France Studies on the Fischer-Tropsch Synthesis Over Co-Ru/Ɣ-Al 2 O 3 -SiC Catalyst for application in GTL-FPSO process&lt;br&gt;Dong Ju Moon, Korea Institute of Science and Technology, South Korea</td>
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<td><strong>Effect of Substrate Geometry and Flow Condition on The Turbulence</strong>&lt;br&gt;Ivan Cornejo Garcia, University of Alberta, Canada The Electrocatalytic Activity of Metal Could Be Modulated By Surface Mechanical Methods&lt;br&gt;Qibo Deng, Tianjin University of Technology, China Highly Active Anode Catalysts Employing MO2 (M=Ti, Ce)-Embedded Carbon Nanofiber Support for Direct Methanol Fuel Cells&lt;br&gt;Nobuyoshi Nakagawa, Gunma University, Japan X-Ray Absorption Spectroscopic and Electrochemical Investigation of NiCo2O4/Graphene Quantum Dots (GQDs) with Efficient Electrocatalytic Properties for Electrochemical Energy Devices&lt;br&gt;Han-Wei Chang, Tamkang University, Taiwan Association of DBD-plasma/Fixed-bed Catalyst Reactor for VOC Oxidation: Process Optimization and Ozone Valorization&lt;br&gt;Abdelkrim Bouzaza, École Nationale Supérieure de Chimie de Rennes, France Studies on the Fischer-Tropsch Synthesis Over Co-Ru/Ɣ-Al 2 O 3 -SiC Catalyst for application in GTL-FPSO process&lt;br&gt;Dong Ju Moon, Korea Institute of Science and Technology, South Korea</td>
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<td><strong>Mesoporous Molecular Sieves as Potential Lewis Acid Catalysts for Epoxide Ring Opening Using Aniline</strong></td>
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Rekha Yadav, University of Delhi, India
Kinetics of Acetone Hydrogenation for Synthesis of Isopropanol Over Cu-Al Mixed Oxide Catalyst
Sanchari Basu, Indian Institute of Technology Kharagpur, India
Fly-Ash Based Solid Acid Catalyst: Synthesis, Characterization and Application in Biofuel Production
Dharmeshkumar R. Lathiya, Sardar Vallabhbhai National Institute of Technology, India
Efficient & Economical Catalytic System for Selective Production of Synthetic Diesel from Syngas with Lower Ribblet Ratio
Shashank Bahri, IIT Delhi, India

Day-2 Parallel Session 1: Photocatalysis, Electrocatalysis, Nanocatalysis, Enzymes & Biocatalysis

Chairs
Javier Fernandez-Sanz, University of Seville, Spain
Natasa Novak Tusa, National Institute of Chemistry, Slovenia

Photocatalytic Binary Hybrids of Graphene With High Energy Faceted Semiconductors
Honey John, Cochin University of Science and Technology, India
Photocatalysis of Volatile Organic Compounds Employing A Redesigned Reactor for Industrial Use
Ursula Luana Rochetto Doubek, UNICAMP, Brazil
Development of A Commercial Photoreactor System for HTS, Batch and Flow Scale Up Designed for Process Chemists
Holly Bonfield, Glaxosmithkline, UK
Biodiesel Production from Non-Edible Feedstock (Karanja, Castor and Hybrid Oil) using Lipase from Pseudomonas Cepacia Immobilised
Bhawna Verma, Banaras Hindu University, India

The New Fischer-Tropsch Process over Ultrafine Catalysts
Mayya V. Kulikova, A.V. Topchiev Institute of Petrochemical Synthesis, Russia

CeOX /TiO2 Nanostructured Interfaces as Highly Active Catalysts
Javier Fernandez-Sanz, University of Seville, Spain
Porous Fe2 O3 -Zro2 and Nio-Zro2 Nanocomposites for Catalytic N2O Decomposition: Role of Zro2 Crystal Structure
Katabathini Narasimharao, King Abdulaziz University, Saudi Arabia
Selective Oxidation Using Au-Pd Supported on Nanostructured Titania and Ceria
Motaz Khawaji, Imperial College London, UK

Carbon Nanotube-Based Biocatalyst for Green Chemistry
Brigitte Vigolo, Institut Jean Lamour Faculté Des Sciences Et Technologies, France
Development of Novel Monolith Catalysts by 3D Printing: Application:
Maria Asuncion Quintanilla, Universidad Autonoma de Madrid, Spain

Interaction of Adenosintriphosphoric Acid and Iron Complex With Cysteamin Ligand - No Donor
Bairov Anton L, Institute of Problems of Chemical Physics, Russian Federation
Chemically Modified Carbon Felt As A Productive Cathode in Photoelectro-Fenton for Organic Pollutant Mineralization
Devendra Rai, IIT Roorkee, India
Insights on the Electrocatalytic and Hydrogen Storage Kinetics of Polypyrrole Synthesized using Different Oxidants
S Padmapriya, SRM Institute of Science & Technology, India
In Situ DRIFT-MS Study of EDTA Photocatalytic Degradation
Giovanni Palmisano, Khalifa University, Abu Dhabi
Hen-Wei Chang, Tamkang University, Taiwan
Exploitation of Engineered Monoxygenases for Biocatalysis In vitro and In vivo
Gianfranco Gilardi, University of Torino, Italy

16:00 - 16:20 Coffee Break

Titania Nanostructures Designed for Photocatalytic Air and Water Cleaning
Natasa Novak Tusar, National Institute of Chemistry, Slovenia
Catalytic Conversion of Biomethane to Liquid Fuels and Useful Chemicals
Dhananjay Singh, IET Lucknow, India
Effect of Surface Treatment on Thermal Degradation Kinetics and Activation
G L Devnani, IIT Roorkee, India

Day-3 April 10, 2019
Session 3: Material Science & Catalysis, Zeolites & Catalysts
Chairs Kuen-Song Lin, Yuan Ze University, Taiwan
Salete S Balula, University of Porto, Portugal
Hydrogen Generation from Ammonia Borane over WC Involving Nano Metal Co Domain
Masao Morishita, University of Hyogo, Japan
From Nanomaterials via Enzyme Immobilization to Biosensors
Teofil Jesionowski, Poznan University of Technology, Poland
Effect of Heat Treatment on the Thermal Stability and Sliding Wear Performance of Nano-Crystalline Cermet Coatings
Kavian O Cooke, University of Bradford, UK
Progress in Modeling Arbitrarily Complex Chemistry: Microkinetic Rate Theory - Formalization, Current Limitations, Prospects as Basis for Continuum Rate
Michael Francis, Los Alamos National Laboratories, USA
Synthesis of Two Dimensional Material Tin Oxides (SnO) and its Properties
Suresh Sundaramurthy, Maulana Azad National Institute of Technology, India
Lignocellulosic Biomass as a Promising Engineering Material for Non-Wood Paper Production
Pratima Jeetah, University of Mauritius, Mauritius

10:00 - 10:20 Coffee Break
Simultaneous Desulfurization and Denitrogenation Processes using Catalytic MOFs to Produce Clean Fuels
Salete S.Balula, University of Porto, Portugal

Synthesis and Characterization of Ni/Al2 O3 for CO2 Decomposition into Carbon Nanofiber
Kuen-Song Lin, Yuan Ze University, Taiwan

TTAB Mediated Synthesis of Meso-H-Bea and Its Application in the Production of N-Butyl Levulinate
Dhara Morawala, Sardar Vallabhbhai National Institute of Technology, India

Catalytic Performance of Desilicated MFI Modified With Iron In Environmental Catalysis
Aleksandra Borcuch, Jagiellonian University, Poland

Ni-Promoted Zeolite-Y with Graphene Oxide for Hydrocracking Ni-Promoted Zeolite-Y with Graphene Oxide for Hydrocracking
Roba Saab, Khalifa University of Science and Technology, Abu Dhabi
Oxidative Dehydrogenation Reaction of Propane: Developing Catalysts Containing VOx , VPO and MgO Phases Supported on MCM-41 and Activated Carbon
Fabiana Magalhaes Teixeira Mendes, National Institute of Technology, Brazil

Performance Behaviour of Ni Catalysts Supported on γ-Al2 O3 Modified with SiO2, TiO2, MoO3 & ZrO2 for Dry Reforming of Methane
Ahmed S. AL-Fatesh, King Saud University, Saudi Arabia

Catalytic Conversions of Dimethoxymethane: Reactions and Catalysts
Sukhe Badmaev, Boreskov Institute of Catalysis, Russian Federation

Straightforward Synthesis of Core-Shell Composites and Their Applications
Elisabete Alegria, IST-ID, Portugal

Timely Template Free Synthesis of a High Silica Nano-FAU-Y For Catalytic Cracking Applications
Hanin Radman, ADNOC Refining, Abu Dhabi, UAE

Catalytic Pyrolysis and Hydrolysis of 1,1,1,2-Tetrafluoroethane (Hfc-134A) Using Γ-Al2 O3
Sangjae Jeong, Hallym University, South Korea

Calcium Oxide Catalysed Microwave Pyrolysis of Paper Cups: Analysis of Oil Quality
Benzennou Soumaya, Polytechnique Montreal, Canada

Title to be announced
Abdulmajeed Alkatheeri, ADNOC Refining, Abu Dhabi

Title to be announced
Daesung Song, Hankyong National University, South Korea

Experimental and Mechanistic Insights into Upgrading of Biomass-Derived Phenolic Compounds
Gul Afreen, Indian Institute of Technology, India

Departures