

Programme

Sunday July 9, 2023

**15:00 Registration
(Socrate Hall)**

18:00 End of registration

Programme

Monday July 10, 2023

08:30 Registration

09:00 Welcome coffee

09:30 Welcome Address

Prof. Eric GAIGNEAUX
(UNIVERSITY OF LOUVAIN, Louvain-La-Neuve, Belgium)

Session Chair

Dr Sean BARRADAS
(BASF, Ludwigshafen Am Rhein, Germany)

09:50 KL01 - Advanced Preparation of Metal-Acid Bifunctional Catalysts to Control Metal Nanoparticle Location

Mr Luc SMULDERS
(UNIVERSITEIT UTRECHT, Utrecht, The Netherlands)

10:30 OC01 - Combined Kinetic and Thermodynamic Models to Rationalize the Tunable Surface Reactivity of Precipitated Hydroxyapatites

Dr Guylene COSTENTIN
(SORBONNE UNIVERSITY, Paris, France)

11:00 Coffee Break and Exhibition

Session Chair

Dr Chantal DIVERCHY
(TOTALENERGIES, Brussels, Belgium)

11:30 OC02 - Shaping of Porous CeO₂ Powders into Highly Active Catalyst Carriers

Dr Elena MARTÍN MORALES
(INSTITUTE FOR RESEARCH IN ENERGY OF CATALONIA (IREC), Sant Adrià del Besòs, Spain)

12:00 OC03 - Successful Development of a Taylor-Made Catalyst System for Linde'S EDHOXtm Technology

Dr Gerhard MESTL
(CLARIANT, Bruckmühl, Germany)

12:30 Lunch

Session Chair

Dr Jurjen MEEUWISSEN (SHELL, Amsterdam, The Netherlands)
Dr Johan HEISZWOLF (LHOIST, Nivelles, Belgium)

14:00 OC04 - Comparing Wet-Chemistry and Gas-Phase Approaches for the Synthesis of Pd Catalyst Supported on ZnO Nanoparticles

Mr Andrija KOKANOVIC
(FACULTY OF CHEMISTRY, UNIVERSITY OF BELGRADE, Belgrade, Serbia)

14:30 OC05 - Focused Ion Beam and Catalyst Preparation for in Situ Gas Analysis in the TEM

Dr Nynke KRANS
(PROTOCHIPS, Utrecht, The Netherlands)

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- 15:00** **OC06 - Synthesis of Heterogeneous Catalysts by Humid Air Glidarc Plasma**
Ing Fanny HANON
(UCLOUVAIN, Louvain-La-Neuve, Belgium)
- 15:30** **OC07 - Application of Simplex Synthesis Optimization Method to Improve the Specific Surface Area and Performance of g-C₃N₄**
Mr Matevz ROSKARIC
(NATIONAL INSTITUTE OF CHEMISTRY, Ljubljana, Slovenia)
- 16:00** **OC08 - Innovative Controlled Incipient Wet Impregnation for V in Microporous Catalysts without Organics and their Application in CO₂ Valorisation**
Dr Jose MENDOZA MESA
(KU LEUVEN, Heverlee, Belgium)
- 16:30** **Coffee Break and Exhibition**
- 17:00** **Poster Session 1 (Even numbers)**
- 19:00** **Reception and Belgian Beer Party**
Socrate Hall

Tuesday July 11, 2023

Session Chair

Dr Cristina PIZZOLITTO
(CASALE, Lugano, Switzerland)

- 09:00 KL02 - Exploring the 3D Printing of Molybdenum Carbide-Based Catalysts in the Reverse Water Gas Shift Reaction**
Dr Arturo PAJARES
(VITO, Mol, Belgium)
- 09:40 OC09 - Direct Valorization of Recycled Palladium as Heterogeneous Catalysts for Total Oxidation of Methane**
Mr Michael MARTIN ROMO Y MORALES
(ICSM/SAINT-GOBAIN, Bagnols sur Cèze , France)
- 10:10 OC10 - Intermetallic Silicides as Hydrodesulfurization Catalysts**
Prof. Xiao CHEN
(DALIAN UNIVERSITY OF TECHNOLOGY, Dalian, China)
- 10:40 Coffee Break and Exhibition**

Session Chair

Dr Ian YORK
(MITSUBISHI CHEMICAL, Hartlepool, United Kingdom)

- 11:10 OC11 - Preparation of Supported Liquid Metal Alloys for Dimerization Catalysis**
Mr Yousuf RAED RAMZI
(FRIEDRICH-ALEXANDER-UNIVERSITÄT, Erlangen, Germany)
- 11:40 OC12 - Mechanochemical Approach for the Preparation of Technical Catalysts**
Ms Luisa ACEVEDO
(INDUSTRIAL UNIVERSITY OF SANTANDER, Bucaramanga, Colombia)
- 12:10 OC13 - Si-Al Nanospheres for the Valorization of Galactose and Agarose Into 5-Hydroxymethylfurfural**
Mr Benjamin TORRES-OLEA
(UNIVERSITY OF MÁLAGA, Málaga, Spain)
- 12:40 Lunch**

Session Chair

Dr David BROWN (DROCHAID RESEARCH SERVICES LTD., St-Andrews, United Kingdom)
Dr Tigran MARGOSSIAN (INEOS INOVYN, Jemeppe sur Sambre, Belgium)

- 14:00 OC14 - Impact of Preparation Parameters on Mo Speciation in CoMoP/ Al₂O₃ HDS Catalysts Monitored by in Situ Hyperspectral XAS Imaging and Raman Spectroscopy**
Dr Elodie DEVERS
(IFPEN, Solaize, France)
- 14:30 OC15 - Membrane-Immobilized Transaminase for an Intensified Enantioselective Production of Chiral Amines**
Ing Hippolyte MEERSSEMAN
(UCLOUVAIN, Louvain-La-Neuve, Belgium)
- 15:00 OC16 - Tailored Synthesis of Transition-Metallosilicates for the Conversion of Biomass-Derived Dihydroxyacetone to Alkyl Lactates? An Aerosol Assisted Sol-Gel Approach**

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Dr Ali shan MALIK
(NAMUR UNIVERSITY, Namur, Belgium)

15:30 OC17 - Tuning Ni-Co Localization Within Binary Nanoparticles Toward Enhanced Performance Over Dry Reforming of Methane

Dr Carmen CIOTONEA
(ECOLE D'INGÉNIEURS LITTORAL COTE D'OPALE (EILCO)- CNRS, Dunkerque, France)

16:00 Coffee Break and Exhibition

Session Chair

Dr Makhlof AMOURA
(DEQUACHIM, Mons, Belgium)

16:30 OC18 - Flame Spray Pyrolysis for Improved Dispersion of FeNi Doped Ceria

Ms Alexandra RADU
(EINDHOVEN UNIVERSITY OF TECHNOLOGY, Eindhoven , The Netherlands)

17:00 OC19 - Manipulation of Zeolite Crystallization and Thermal Activation for C-H Activation Catalysts

Dr Julien DEVOS
(KU LEUVEN, Leuven, Belgium)

Programme

Wednesday July 12, 2023

Session Chair

Prof. John REGALBUTO
(UNIVERSITY OF SOUTH CAROLINA, Columbia, United States)

09:00 KL03 - Templated Synthesis of Porous HEA-Based Materials

Dr Marco FAUSTINI
(SORBONNE UNIVERSITÉ, Paris, France)

09:40 OC20 - Synthesis of Hybrid Materials Containing H-ZSM-5 and CeO₂ for Green Butadiene Production

Ing Loïc ELOI
(UNIVERSITY OF GHENT, Gent, Belgium)

10:10 OC21 - Preparation of Potassium Titanate Fine Crystal Photocatalysts by An Alkoxide Method for Carbon Dioxide Reduction with Water

Prof. Hisao YOSHIDA
(KYOTO UNIVERSITY, Kyoto, Japan)

10:40 Coffee Break and Exhibition

Session Chair

Dr Mark FEAVIOUR
(JOHNSON MATTHEY TECHNOLOGY CENTRE, READING, United Kingdom)

11:10 OC22 - The Role of Thermal Treatments in the Evolution of Active Phases in V/P/O Catalysts for N-Butane Selective Oxidation to Maleic Anhydride

Ms Ludovica CONTE
(ALMA MATER STUDIORUM- UNIVERSITY OF BOLOGNA , San Maurizio Canavese , Italy)

11:40 OC23 - Solvent-Free Alternative to Co-Precipitation in the Preparation of Tertiary CuMgAlO_x Metal Oxides

Mr Davey DE WAARD
(TECHNISCHE UNIVERSITEIT EINDHOVEN, Eindhoven, The Netherlands)

12:10 OC24 - Comparison of Hybrid Acid Catalysts Prepared by One-Pot Synthesis and Via Grafting of Trimethylsilyl Groups into Aluminosilicates Synthesized by Non-Hydrolytic Sol-Gel

Ms Lucie LEONOVA
(MASARYK UNIVERSITY, FACULTY OF SCIENCE, Brno, Czech Republic)

12:40 Lunch

Session Chair

Prof. Petra DE JONGH (UNIVERSITEIT UTRECHT, Utrecht, The Netherlands)
Dr Dirk NIEMEYER (SASOL GERMANY GMBH, Hamburg, Germany)

14:00 OC25 - Automated, Standardized and High-Throughput, Closed Loop Approaches for Catalyst Development Processes

Dr Arunraj CHIDAMBARAM
(CHEMSPEED TECHNOLOGIES AG, Füllinsdorf, Switzerland)

14:30 OC26 - Facile Fabrication of Au/SiO₂ Nanostructures from 1D to 3D Nanotubes Network Using Polycarbonate Membranes

Dr Fabien DRAULT
(UCLouvain, Louvain-la-Neuve, Belgium)

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- 15:00** **OC27 - How to Adjust the Molybdenum Multi-Scale Organization of a CoMoP/Al₂O₃ Catalyst by Playing on the Different Synthesis Steps?**
Mrs Candice COTTREZ
(IFPEN, Solaize, France)
- 15:30** **OC28 - In-Situ Promoted Segregation of Copper from Copper Ferrites: The Formation of an Alternative Active Phase for Long-Chain Alcohols ODH**
Dr Tommaso TABANELLI
(UNIVERSITY OF BOLOGNA, Bologna, Italy)
- 16:00** **Coffee Break and Exhibition**
- 16:30** **Poster Session 2 (Odd numbers)**
- 19:00** **Conference Dinner**

Thursday July 13, 2023

Session Chair

Dr Elodie DEVERS
(IFPEN, Solaize, France)

09:00 KL04 - Tailored Preparation of ZnOx of Species ver Different Supports for Efficient Propane Dehydrogenation

Dr Dan ZHAO
(KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT), Eggenstein-Leopoldshafen, Germany)

09:40 OC29 - From Deposited Metal Precursors to Supported Atoms or Nanoparticles

Prof. John REGALBUTO
(UNIVERSITY OF SOUTH CAROLINA, Columbia, United States)

10:10 OC30 - Enhancing the Activity of Metal Organic Frameworks as Heterogeneous Catalyst Materials Through Synthetic Modifications: Exploring the Structure-Activity Relationship

Ms Charlotte SIMMS
(KU LEUVEN, Leuven, Belgium)

10:40 Coffee Break and Exhibition

Session Chair

Dr Gerhard MESTL
(CLARIANT, Bruckmühl, Germany)

11:10 OC31 - Tuning Ni/MgO-Al₂O₃ Catalysts via Precursor Complexation at Different Ph to Boost the Activity and Stability for Dry Reforming of CH₄

Mr Santiago GONZALEZ
(LIKAT, Rostock, Germany)

11:40 OC32 - Effect of Template Size on Phase Purity of High Surface-Area γ -Alumina

Ms Claudia KEIJZER
(UTRECHT UNIVERSITY, Utrecht, The Netherlands)

12:10 OC33 - Impact of Molybdenum Introduction Imbedded in TiO₂ Nanotubes on MoS₂ Phase Nature

Ms Limor BEN NEON
(LABORATOIRE CATALYSE ET SPECTROCHIMIE, Caen, France)

12:30 Lunch

Session Chair

Dr Emiel DE SMIT
(EXXONMOBIL CHEMICAL EUROPE, INC., Machelen, Belgium)

14:00 OC34 - Preparation of SiO₂-Supported Ni-Fe Nanoparticles Exhibiting a Fe Gradient for the Hydrogenation of Sugars in Water

Dr Eric MARCEAU
(UNIVERSITÉ DE LILLE, Villeneuve d'Ascq, France)

14:30 OC35 - 3D Printing of Catalyst: from Gram to Ton Scale

Dr Jasper LEFEVERE
(VITO, Mol, Belgium)

15:30 Awards and Concluding remarks

Programme

Prof. Johan MARTENS
(KU LEUVEN, Leuven, Belgium)