

## PROGRAMME FOR THE FLASH PRESENTATIONS

Tuesday, June 16, 2026 (16:00-17:20)

- 16:00 **Ludivine K/Bidi**  
*Adsorption sites diversity and reactivity in colloidal Iron Carbide nanoparticles for Fischer-Tropsch Synthesis*
- 16:05 **Kelvin Kimaru**  
*Photocatalytic Degradation of Dinaphthophenazine Textile Dye: Investigated by UV-Vis-NIR Absorption Spectroscopy*
- 16:10 **Sujitha Kumar**  
*Catalytic Activity of  $Ti_3$ -doped Goldene for Nitric Oxide Reduction Reaction – A First-Principles Study*
- 16:15 **Kateřina Kupková**  
*Effect of  $H_2O$  on  $NH_3$ -SCO over calcined hydrotalcite-zeolite composites*
- 16:20 **Luis Alberto Lares Rangel**  
*Understanding the Role of Metal-Support Interactions in Au-M/ $TiO_2$  (M = Co, Ir, Rh, Ni, Pd, Pt, Cu, Ag) Catalysts*
- 16:25 **Donghun Lee**  
*Beneficial Role of SnS Incorporation in  $MoS_2$  Thin film for Enhanced Alkaline Hydrogen Evolution Reaction*
- 16:30 **Rabab Maqsood**  
*Functionalized ruthenium catalysts for sustainable catalytic oxidation of organic substrates*
- 16:35 **Nishanthan Muthumuniyandi**  
*From Metallic Phases to Metal Borides: Exploring New Bifunctional Catalysts For Sustainable Aviation Fuels Via Guerbet Reaction*
- 16:40 **Agapi Orfanoudaki**  
*Morphology-driven metal-support interactions in Co/ $CeO_2$  catalysts for enhanced CO oxidation*
- 16:45 **Vincent M. Peheliwa**  
*Optimization of Composition and Structure of  $MoS_2$  thin films via Molecular Beam Epitaxy for Hydrogen Evolution Reaction*
- 16:50 **Meena Utkarsh Prahalad**  
*Synergistic Effect of Bimetallic Spinel  $CuFe_2O_4$  Nanoparticles in a Bipyridine-Based Covalent Organic Framework for Robust Water Oxidation*
- 16:55 **Eva Prokopová**  
*DTQ Immobilization: Bridging Homogeneous and Heterogeneous Photoredox Catalysis*
- 17:00 **Simron Rai**  
*Silver-Modified Lemon Peel Biochar for Adsorption–Catalytic Removal of Parabens*

- 17:05 **Joana Ramos**  
*g-C<sub>3</sub>N<sub>4</sub>/Cs<sub>3</sub>Bi<sub>2</sub>Br<sub>9</sub> Photocatalysts for Visible-Light-Driven p-Anisaldehyde Synthesis*
- 17:10 **Manoj Raula**  
*Transition-Metal-Incorporated tunable Redox-active Polyoxometalate Stabilized TiO<sub>2</sub> Nanocores for Visible-Light-Driven Photo-, Electro-, and Photoelectrocatalytic HER*
- 17:15 **Maria E. Ribeiro**  
*Evaluation of CuO-Layered Double Hydroxide for Oxygen capture*

**Wednesday, June 17, 2026 (10:30-11:55)**

- 10:30 **Aphinan Saengsrichan**  
*Environment-Dependent Evolution of Silver Species on TiO<sub>2</sub> under UV*
- 10:35 **Santanu Sarmah**  
*Maximizing Loading of Rh Single-Atom on CeO<sub>2</sub> for Hydroformylation reaction*
- 10:40 **Akshay Soni**  
*Tuning Co-Mn Bimetallic Catalysts for Selective C<sub>3</sub>-C<sub>4</sub> Hydrocarbon Formation from CO<sub>2</sub>*
- 10:45 **Merve Süslükaya**  
*PoliHIPE Supported Heterogeneous Pt-NHC Catalysts for Sustainable Silicon Industry Applications*
- 10:50 **Yuval Tamir**  
*Influence of reducible metal oxides on alkane molecule adsorption*
- 10:55 **Muhammad Adeel Tariq**  
*Electrochemical oxidation of methanol at Ni(OH)<sub>2</sub>-supported Pd electrocatalysts for direct methanol fuel cells*
- 11:00 **Arati Prakash Tibe**  
*Electron Traps in Thermal Heterogeneous Catalysis: Fundamentals, Detection, and Applications of CO<sub>2</sub> Hydrogenation*
- 11:05 **Xiaowen Zheng**  
*Steering the Catalytic Mechanism via the Mott-Schottky Effect in Fe<sub>0.64</sub>Ni<sub>0.36</sub>/Ni<sub>12</sub>P<sub>5</sub> Heterostructures*
- 11:10 **Yuqing Yao**  
*Iridium Cluster Decoration on Amorphous Cobalt Oxide-Coated Carbon Nanotubes for High-Performance Lithium-Oxygen Battery Cathodes*
- 11:15 **Xiaolei Zhang**  
*Mechanistic Insights into the Catalytic Innovations in Biomass Valorization*
- 11:20 **Leticia Aguado**  
*Tetraazaphthalene-based hypercrosslinked polymer for the photocatalytic synthesis of formamides from CO<sub>2</sub>*
- 11:25 **Elisabete M. Assaf**  
*NiZnCeAl-LDH catalysts applied to methane dry reforming*

- 11:30 **Arthur Bajetto**  
*Towards the development of metals supported on rare earth phosphates: water-tolerant materials for biomass valorization*
- 11:35 **Arkadii Bikbashev**  
*Enhanced CO<sub>2</sub> Methanation over NiO Catalysts Promoted by Noble Metals*
- 11:40 **Tamal Biswas**  
*Synergistic Electronic and Supramolecular Stability in a Perimidine-Based Iron(II) Complex*
- 11:45 **Sabrina Boughoual**  
*Supported gold catalysts for sustainable amide synthesis*
- 11:50 **Zuzana Burešová**  
*Dithienoquinoxaline photocatalyst: Mechanistic insights and applications*

**Wednesday, June 17, 2026 (16:00-17:10)**

- 16:00 **Rafael Carneiro**  
*The Role of Metal Dispersion in the Performance of Metal-Modified Graphitic Carbon Nitride for Photocatalytic Ammonia Cracking*
- 16:05 **Gabriel L. Catuzo**  
*Ethane dehydroaromatization using LDH-Derived mixed oxides of Ga and Zn, and Mg over HZSM-5 zeolite*
- 16:10 **Jaime Cervera**  
*Ni<sub>x</sub>Co<sub>y</sub> for RWGS: A composition study*
- 16:15 **Ratan Kumar Dey**  
*New copper - red mud supported catalyst for organic transformation reactions: studies of model reactions employing H<sub>2</sub>O<sub>2</sub> as an oxidizing agent in liquid phase oxidation - an insight into selectivity and structure-activity relationship*
- 16:20 **Yunus E. Dogan**  
*A 3D-AFM-Based Method for Isolating Short-Range Molecular Interaction Forces on Catalytic Surfaces*
- 16:25 **Muhammad Ehtisham**  
*Predicting Stereoselectivity in  $\gamma$ -Lactonization through a Simple Computational Model of the Reactant Complex*
- 16:30 **Anna Emmerich**  
*Mechanistic Investigation of Magnetically Induced Catalytic Processes*
- 16:35 **Lorenzo Forzanini**  
*Active-Phase Engineering in NiFeS for Enhanced Alkaline Water Splitting*
- 16:40 **Hamza Mohamed**  
*Combustion synthesis of CeO<sub>2</sub> Nanoparticles for catalyst applications*
- 16:45 **Earl Adrian Hans**  
*Supported Copper and Cobalt Nanoparticles for Acceptorless Dehydrogenation via Plasmonic Photocatalysis*

- 16:50                    **Samiksha Mukesh Jain**  
*Enhancing Hydrogen Production via Ni-P Catalysts on Lead-Free Halide Perovskite Photoelectrodes*
- 16:55                    **Alina Elza Jiji**  
*Hydrotalcite derived Mixed Metal Oxide based Dual Functional Material for CO<sub>2</sub> Trapping and Methanation*
- 17:00                    **Vincent Josien**  
*Hydrogen production by dry reforming of biogas assisted by a catalyst based on iron-rich biochar doped with hydroxyapatite*
- 17:05                    **Shani Monadeev**  
*Promoting the synthesis of sustainable aviation fuels (SAFs) over exposed heterointerfaces*