

## [FUTURA building](#)

8:45 Breakfast and a tour at the Department of Chemistry

## [METRIA building](#)

10:05 Welcoming address (M102)

### Session 1

Session chair: Niko Heikkinen (VTT)

10:15 KL1 **Dr. Teuvo Maunula (Dinex Finland)** *Emission catalysts and purification systems for future fuels and combustion exhaust gases*

10:45 OP1 **Dr. Petra Vasko** *Hydroboration of Alkynes by an FLP: Unexpected Bond Activation and Mechanistic Studies*

11:00 OP2 **Emma Verkama** *Supported noble metal catalysts for the simultaneous hydrodeoxygenation and hydrodenitrogenation of amides: influence of the catalyst composition*

11:15 OP3 **Ramin Majidov** *Short summary of my MSc thesis work: "Sustainable feedstock to Methyl Lactate using Y zeolites"*

11:30 OP4 **Luca Mastroianni** *Comprehensive reverse flow reactor model for fluid-solid systems*

11:45 OP5 **Blaz Horvat** *Synthesis of Zeolites from waste combustion fly ash and characterization via SCR*

12:00 Lunch at restaurant Pepe ([METLA building](#))

### Session 2

Session chair: D. Sc. Pasi Tolvanen (Åbo Akademi)

13:00 OP6 **Matias Alvear** *Epoxidation on titanium silicates catalyst: From active site to reactor understanding*

13:15 OP7 **Tommaso Cogliano** *<sup>1</sup>H NMR-based analytical method: A valid and rapid tool for the epoxidation processes*

13:30 OP8 **Ole Reinsdorf** *Selective Oxidation of Glucose using Hydrogen Peroxide as an Oxidant: Effect of the Support, Metal and Structure Sensitivity*

13:45 OP9 **Christoph Schmidt** *AuPd catalysts for the direct synthesis of hydrogen peroxide in a trickle bed reactor*

14:00 OP10 **Dr. Francesco Sandri** *Novel halide-free strategy to promote the direct synthesis of hydrogen peroxide*

14:15 KL2 **Associate Professor Riikka Puurunen (Aalto University)** *Discussion on recent progress of scientific publishing forums: What are preprints, where and how to publish open data/open code, etc.*

14: 45 Coffee break

### Session 3

Session chair: Dr. Aitor Arandia Gutiérrez (VTT)

15:05 KL3 **Associate Professor Anna Lähde (University of Eastern Finland)** *CO<sub>2</sub> capture and utilization (Tentative title)*

15:35 OP11 **Florian Rathmann** *Plasmonic-catalytic nanoparticles as enablers for CO<sub>2</sub> reductions under visible light excitation and mild conditions*

15:50 OP12 **Aku Lempelto** *CO<sub>2</sub> Reduction to Methanol at a Cu/Zn–ZrO<sub>2</sub> Interface via DFT Calculations*

16:05 OP13 **Mourad Elkailech** *CO<sub>2</sub> methanation over raw material-based catalysts*

16:20 **Poster session** (see list of poster presentations below)

### Evening program

17:00 Annual meeting of the Finnish Catalysis Society (M105)

19:00 **Dinner at restaurant Filipof** (Torikatu 10, 80100 Joensuu)

## List of posters

P1	<b>Niko Heikkinen</b>	VTT	Heterogeneous catalyst modification with atomic layer deposition overcoatings
P2	<b>Maryam Hmoudah</b>	Åbo Akademi University	Revolutionizing Wastewater Treatment: The Potential of Mxenes in Eliminating Emerging Contaminants.
P3	<b>Mark Martinez-Klimov</b>	Åbo Akademi University	Bifunctional Catalysts for the Production of Renewable Jet Fuel
P4	<b>German Araujo</b>	Åbo Akademi University	Solid Foam Catalysts For Sugar Hydrogenation: Catalyst Development and Kinetic Study
P5	<b>Pawel Winiarski</b>	Aalto University	Methods for AI guided catalyst discovery
P6	<b>Dr. Wander Perez</b>	Åbo Akademi University	Two-step fatty acid esters conversion to cyclic carbonates using heterogeneous catalyst and semi batch reactor
P7	<b>Jay Pee Oña</b>	Åbo Akademi University	Electrocatalytic conversion of glucose and xylose on highly dispersed mesoporous carbon-supported Au nanocatalysts
P8	<b>Leoni Klingelhöfer</b>	Aalto University	Hydrodenitrogenation of alkyl amines over noble metal catalysts
P9	<b>Eerika Olkkonen</b>	University of Eastern Finland	Supported nickel catalysts for decomposition of tetrabromobisphenol A
P10	<b>Tiina Laitinen</b>	University of Oulu	Alternative raw materials for methanol oxidative dehydrogenation catalysts
P11	<b>Joakim Kattelus</b>	Aalto University	Preparation and characterization of promoted supported MoS <sub>2</sub> catalysts for hydrodenitrogenation
P12	<b>Ibrahim Abdelsalam</b>	Helsinki University	Harvesting plasmonic effects for H <sub>2</sub> evolution and CO <sub>2</sub> reduction reactions.
P13	<b>Mouaud Hacchach</b>	Åbo Akademi	Valorization of Hemicelluloses via Catalytic Selective Oxidation of Arabinose on Gold Catalysts: Process Design and Techno-Economic Assessment

**KL: Keynote lecture**

**OP: Oral presentation**

**P: Poster**