

10th Finnish Young Scientist Forum on Catalysis (FYSFC 2026)
16 April 2026

Day program		
Rooms 207 and 204 (Kokoussiipi/Conference Centre), Messukeskus Helsinki		
9:30–9:55	Coffee	Room 207
9:55–10:00	Day program opening	Room 207
Oral presentations by young catalysis scientists I: <i>Environmental catalysis — CO₂ conversion and emissions control</i>		Room 207
10:00–10:15	Laura Annunen (University of Oulu) — Fabrication of Freeze-Casted NiCu-Based Cryogel Catalysts for the RWGS Reaction	
10:15–10:30	Florian Rathmann (VTT) — Plasmon-Enhanced CO ₂ Methanation over Au@Ru/TiO ₂ via Nanoscale Control of Ru Shell Thickness	
10:30–10:45	Tytti Ristikaarto (University of Oulu) — Deactivation of Fe-based NH ₃ -SCR Catalysts	
10:45–11:00	Abhinash Kumar Singh (VTT) — Integration of Pd based catalyst inside MW plasma for oxidation of methane	
11:00–12:15	Lunch break (self-paid)	
12:15–13:00	Invited speaker: Dr. Pascal Raybaud (IFP Energies Nouvelles) — Valuable atomic scale learnings from the computational approach on heterogeneous catalysts	Room 207
Oral presentations by young catalysis scientists II: <i>Atomic scale insights to environmental catalysis</i>		Room 207
13:00–13:15	Bhumi Arunkumar Baraiya (University of Jyväskylä) — Identification of Active Sites for CO ₂ Conversion on ZnO/Cu(111) Catalysts	
13:15–13:30	Haixian Yan (University of Helsinki) — Electronic Structure Engineering of δ-MnO ₂ via Multi-Cation Co-Doping for Efficient PMS Activation	
13:30–14:30	Poster presentations by young catalysis scientists and coffee	Room 204 (note the room change)
Oral presentations by young catalysis scientists III: <i>Cutting-edge catalyst synthesis and characterization</i>		Room 207
14:30–14:45	Eelis Ketola (Åbo Akademi) — Intricate Catalyst Design by Additive Manufacturing	
14:45–15:00	Manoj Kumar Ghosalya (University of Oulu) — Advanced Ambient Pressure X-ray Photoelectron Spectroscopy (APXPS) at the University of Oulu: A Powerful Platform for Operando Surface and Electrochemical Interface Studies	
15:00–15:30	Invited speaker: Oral presentation by the Finnish Catalysis Society Best Doctoral Thesis Award recipient	Room 207
15:30	Day program closing	Room 207
16:00	Finnish Catalysis Society annual meeting	Room 207
Evening program		
Jackie Atejje, Iso Roobertinkatu 10		
19:00–19:15	Doors open, welcome drinks	
19:15–19:45	Evening program opening, poster award ceremony, and buffet	
19:45–20:00	Invited speaker: Dr. Juha Lehtonen (VTT) — The future of catalysis research in Finland	
20:00–23:00	Free-form networking and karaoke	
23:00	Event ends	

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Poster presentations	
P1	Uswa Shahid (Åbo Akademi) — Ru/C Catalysts on 3D-Printed α -Al ₂ O ₃ Gyroid Supports for Lignin Reductive Depolymerization
P2	Olha Yevdokimova (Åbo Akademi) — Production of Sustainable Aviation Fuel Precursors by Aldol Condensation of Cyclopentanone and Furfural on Ce-Based Catalysts
P3	Abdul Rehman Khan (University of Oulu) — Waste derived MOFs based photocatalyst for Solar Fuel Production
P4	Mehdi Hassan Milu (Åbo Akademi) — Mesoporous Materials for Direct Oxidation from Methane to Methanol
P5	Luis A. Gallego-Villada (Åbo Akademi) — Synthesis of methanol from direct methane oxidation over Cu-ZSM-5 catalysts
P6	Pablo Lujan (National University of Engineering) — Hydrogen production by biogas tri-reforming over NiTiO ₃ catalysts with La/Ce doping
P7	Marcelo Díaz (National University of Engineering) — Structural and catalytic effects of La and Ce doping on NiTiO ₃ for CO ₂ methanation
P8	Enrico Marchi (Åbo Akademi) — Sorption enhanced CO ₂ methanation
P9	Salvatore Capasso (Åbo Akademi) — Modelling of carbon dioxide methanation in radial flow reactor
P10	Nelly Mollehuara (University of Oulu) — Life cycle assessment of Methane Production through CO ₂ Hydrogenation: A comparative analysis
P11	Andres Barreiro (Åbo Akademi) — Sustainable Production of Cyclic Carbonates from CO ₂ and Renewable Biosources: Process Development from Laboratory Scale toward Industrial Feasibility
P12	Jessica Ekholm (VTT) — Studying the effects of different CeO ₂ -based catalysts and additives in the synthesis of dimethyl carbonate from methanol and CO ₂
P13	Wayne Kipngeno Korir (Åbo Akademi) — Human-Guided LLM Approach for Literature-Grounded Bifunctional CO ₂ -to-DME Catalyst Design
P14	Rasmus Ikonen (University of Jyväskylä) — Application of machine learning potentials to diffusion of light hydrocarbons in SAPO-34
P15	Sanni Tuunainen (University of Eastern Finland) — Impact of Gas Deactivation on 13X zeolite CO ₂ adsorption capacity
P16	Niko Virkki (VTT) — Direct heated E-reactor for ammonia reforming
P17	Kristian Chen (VTT) — Kinetics of catalytic ammonia cracking over Ru catalysts
P18	Abdul Shahid (Åbo Akademi) — Ozonation of urea