



CzePoCat 2026

14th Czech-Polish Catalytic Symposium

February 6, 2026 from 8:00 to 22:00

Meeting room UA2, Aula VSB-Technical University of Ostrava

Program

8:00 – 8:30 – Registration

8:25 – 8:30 – Lucie Obalová, (VSB-Technical University of Ostrava)

Opening speech

1. Section

Chairman: Anna Śrębowata (Polish Academy of Sciences)

8:30 – 8:45 – Lei Wang (Jagiellonian University in Krakow)

Development of Au-embedded titania inverse opal for synergistic coupling of slow photon and plasmonic effects

8:45 – 9:00 – Nikola Kostková (J. Heyrovský Institute of Physical Chemistry, Prague)

Nitrogen-doped zeolite-templated carbon supports for Ni nanocatalysts: from synthesis to CO₂ methanation performance

9:00 – 9:15 – Jiří Jablunka (VSB-Technical University of Ostrava)

Optimization of Photocatalytic CO₂ reduction using TiO₂: New perspectives for sustainable chemistry.

9:15 – 9:30 – Subhasis Das (VSB- Technical University of Ostrava)

Valorization of plastic waste and CO₂ by catalytic pyrolysis and dry reforming

9:30 – 9:45 – Patrik Kopčan (VSB-Technical University of Ostrava)

Photocatalytic performance of natural sepiolite and palygorskite for hydrogen generation

9:45 – 10:00 – Mateusz Mrzyk (Jagiellonian University in Krakow)

Photoinduced processes in the UiO-66-NH₂/TiO₂ heterostructures: The role of the interface

10:00 – 10:15 – Krzysztof Sidur (Jagiellonian University in Krakow)

Single layer engineering for photocatalytic gradient film structure

10:15 – 10:30 – Coffee break

2. Section

Chairman: Štefan Vajda (J. Heyrovský Institute of Physical Chemistry, Prague)

10:30 – 10:45 – Mariusz Barczak (University of Maria Curie-Skłodowska in Lublin)

Sulfur-tuned Nanoporous Carbons: Synthesis, Characterization, and Applications.

10:45 – 11:00 – Weronika Góral (Warsaw University of Technology)

Cobalt catalysts for NH₃ decomposition – CO_x-free hydrogen production.

11:00 – 11:15 – Sylwia Gnyla (Jagiellonian University in Krakow)

From simplicity to realism: Advancing ODS methodology toward more authentic petroleum-derived conditions

11:15 – 11:30 – Weronika Julia Rybińska (Polish Academy of Sciences)

Novel Ni-MOF-derived carbonaceous catalysts for selective α,β -unsaturated aldehydes hydrogenation

11:30 – 11:45 – Karolína Šimkovičová (J. Heyrovský Institute of Physical Chemistry, Prague)
Cu/FeO_x catalysts for CO₂ hydrogenation: Structure-Activity Relationship

11:45 – 12:00 – Kateřina Kupková (VSB- Technical University of Ostrava)
Novel calcined hydrotalcite-ZSM-5 composites as catalysts for NH₃-SCO.

12:00 – 12:15 – Dana Dvoranová (STU Bratislava)
Indirect Techniques of Electron Paramagnetic Resonance (EPR) Spectroscopy in (Photo)catalysis.

12:15 – 13:15 – Lunch

3. Section

Chairman: Lucjan Chmielarz (Jagiellonian University in Krakow)

13:15 – 13:30 – Dimitrios Giannakoudakis (University of Maria Curie-Sklodowska in Lublin)
Novel Nanomaterials Design via Green Water-Based Synthesis: Bimetallic MOF/ZIF–Nanostructured g-C₃N₄ Composites for Multifunctional Environmental Remediation.

13:30 – 13:45 – Wiktoria Adamowicz (Jagiellonian University in Krakow)
Photocatalytically active TiO₂- and SrTiO₃-based films synthesised by the liquid phase deposition method

13:45 – 14:00 – Maria Adamska (Jagiellonian University in Krakow)
Structure or Composition? Study of g-C₃N₄ modifications impact on photocatalysis

14:00 – 14:15 – Barbora Hermanová (VSB- Technical University of Ostrava)
Sustainability Challenges of Photocatalyst-Integrated Biodegradable Cellulose Membranes for Water Trea

14:15 – 14:30 – Gülsüm Efsun Tekneci (Jagiellonian University in Krakow)
Temperature-Controlled LPD Synthesis of Anatase TiO₂ and Its Photocatalytic Activity

14:30 – 14:45 – Sara Moczulska (Polish Academy of Sciences)
Co-MOF derived catalysts in the hydrogenation of α,β -unsaturated aldehydes

14:45 – 15:00 – Karolina Karpińska-Wliziło (University of Maria Curie-Sklodowska in Lublin)
How promoters shape active sites: structural and catalytic consequences of Nd and Fe addition to Ni/SiO₂ in CO₂ methanation

15:00 – 15:15 – Coffee break

4. Section

Chairman: . Janusz Ryzkowski (University of Maria Curie-Skłodowska in Lublin)

15:15 – 15:30 – Małgorzata Lemańska (Warsaw University of Technology)

Development of Nd_2O_3 -supported catalyst for ammonia synthesis

15:30 – 15:45 – Jana Vastyl (VSB- Technical University of Ostrava)

Catalytic hydrogenation of CO_2 as a path to green chemistry

15:45 – 16:00 – Agnieszka Kmiećicka (Jagiellonian University in Krakow)

Advanced zeolite modification strategies to increase their efficiency in the CO_2 capture process

16:00 – 16:15 – Jan Adamczyk (AGH University of Krakow)

Catalytic potential of Cu-doped LaSrTiO_3 materials in NH_3 -SCO and NH_3 -SCR Reactions

16:15 – 16:30 – Petr Víték (J. Heyrovský Institute of Physical Chemistry, Prague)

Atomically Precise CuPd Pentamer Clusters for Catalytic Dehydrogenation of Cyclohexene

16:30 – 16:45 – Xin Yue (Jagiellonian University in Krakow)

Visible-light photocatalysis on Pt-modified bismuth molybdate

16:45 – 17:00 – Limeng Wu (Jagiellonian University in Krakow)

Surface modification of BiVO_4 for enhanced photocatalytic activity

17:00 – 22:00 – Discussion and closing ceremony

Acknowledgement: This symposium was financially supported by Czech Chemical Society (ČSCH), Ostravar brewery and Large Research Infrastructure „ENREGAT – Energy Waste Recovery and Gas Treatment” (LM2023056).



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