



Preliminary program

Department of Physical and Macromolecular Chemistry
On behalf of the group "Catalysis" of the Czech Chemical Society
invites you to the

Students' catalytic seminar 2025

Date: 28. 1. 2025
Place: Hall CH2, Faculty of Science, Charles University, Hlavova 8, Prague 2
Organizator: Dr. Jan Přeč: jan.prech@natur.cuni.cz

Program:

8:30 – 9:00 Registration, coffee
9:00 – 9:05 Opening Dr. Jan Přeč
9:05 – 10:05 Invited lecture: Dr. Jean-Pierre Gilson (Universite de Caen, France)

Zeolite Catalysts Deactivation: A Question of Life and Death

1st session of student talks

10:05 – 10:25 Lukáš Koláčný (UCT Prague)

Three-Dimensional Electron Tomography Reveals Microstructural Changes During Electrochemical Aging of Pt–Co Fuel Cell

10:25 – 10:45 Nitin Kumar (Faculty of Science, Charles University)

To be announced

Coffee break

2nd session of student talks

11:05 – 11:25 Talat Zakeri (Faculty of Science, Charles University)

Lewis and Brønsted Acid Zeolite Catalysts for the Valorization of Biorenewable Chemicals

11:25 – 11:45 Amin Babar (UCT Prague)

Understanding the role of TiO₂ surfaces on the Ru-TiO₂ interaction, formation of active sites and applications in 5-HMF valorization

11:45 – 12:05 Daria Sudakova (Faculty of Science, Charles University)

Supporting metal nanoparticles at 2D zeolites for lignin valorization model reactions

12:05 – 12:25 Ayesha Shafiq (UCT Prague)

Two-Dimensional Catalyst Supports for Hydroformylation: A New Frontier in Catalysis

Joint lunch in a restaurant

3rd session of student and sponsor talks

14:00 – 14:20 Dr. Maria Smyrnioti (Ranido)

Advancing Emission Control: Heterogeneous Catalysis Bridging Research and Real-World Applications

14:20 – 14:40 Snehasis Dutta (UCT Prague)

Studies on demethylation-methylation reactions of guaiacol and anisole over Cu/Al₂O₃ catalysts

14:40 – 15:00 Fateme Poorsharbafe Ghavi (Faculty of Science, Charles University)

The Support Affects the Catalytic Conversion in Thymol Hydrogenation Reaction

15:00 – 15:20 Dr. Michal Dudák (Anamet)

Chemisorption and reactor solutions from Altamira Instruments

Coffee break

4th session of student talks

15:40 – 16:00 Tereza Benešová (Faculty of Science, Charles University)

Supported sub-nanometre clusters on a nanosecond scale: answers from modelling on how they move

16:00 – 16:20 Adéla Olšovská (Faculty of Science, Charles University)

Anchoring functional species to surface silanols on zeolitic materials

16:20 – 16:40 Adéla Šlachťová (VŠB Technical University of Ostrava)

Nanostructured mixed metal oxides catalysts for catalytic oxidation of dichloromethane

16:40 – 17:00 Keren Nderitu (UCT Prague)

The influence of synthesis parameters on the structure of copper-based catalysts

17:00 Closing remarks and award announcement

A committee of our sponsors shall select 3 best talks, which shall be awarded.

The conference is kindly supported by the following sponsors:

