

SCHOOL ON CATALYSIS



Liblice, May 24-26, 2022

Tuesday, May 24

12:00		Arrival to Liblice Castle
13:00-14:00		Registration and Accommodation
14:30-14:35		Opening and Introduction
		Chair: Jiří Čejka
14:35-15:30	PL1	Determination of textural properties from adsorption experiments Katharina Peikert (Micromeritics)
15:30 -17:00		Flash Poster presentations (1-25)
17:00-18:30		POSTER SESSION
19:00		Welcome (Garden) Party – depending on the weather

Wednesday, May 25

		Chair: David Kubička
9:00-9:55	PL2	Performance metrics for sustainable catalysis in industry Jean-Paul Lange (Shell) – ZOOM Presentation
9:55-10:35	PL3	How to write a good paper from figures to title Carlos Melo (Charles University, Prague, Czechia)
10:35-11:05		Coffee Break & Posters
		Chair: Carlos Melo
11:05-12:00	PL4	Ethics in publishing Gianfranco Pacchioni (University of Milano Bicocca)
12:15-13:15		Lunch
		Chair: Jan Přeč
13:30-14:35		Student Oral Presentations – 1-4 (12 minutes/each + 15 minutes for questions)
14:35-15:40		Student Oral Presentations – 5-8 (12 minutes/each + 15 minutes for questions)
15:40-16:10		Coffee Break & Posters
		Chair: Michal Horáček
16:10-17:15		Student Oral Presentations – 9-12 (12 minutes/each + 15 minutes for questions)
17:15-18:15		Student Oral Presentations – 12-16 (12minutes/each + 15 minutes for questions)
19:30		Dinner

Thursday, May 26

		Chair: David Kubička
9:00-9:55	PL5	Theoretical approaches to catalysis Gianfranco Pacchioni (University of Milano Bicocca)

9:55-10:50	PL6	<i>Catalysis in Fine Chemical Synthesis</i> Rafael Luque (Universidad de Cordoba, Spain)
10:50-11:15		Coffee Break
11:15-12:10	PL7	<i>The art of catalyst shaping</i> Dmitry Murzin (Abo Akademi University, Turku, Finland)
12:10-12:15		<i>Closing remarks: David Kubička</i>
12:15-13:00		Lunch
		Departure from Liblice to the Prague Airport

ORAL PRESENTATIONS

- O1 Thermodynamic and kinetic challenges in the carboxylation of alcohols
D. Linsalata, M. Aresta, M. Bortoluzzi, N. Ditaranto, F. Nocito, A. Dibenedetto University of Bari
- O2 Meerwein-Ponndorf-Verley Reduction of Terpenoid Compounds over Sn- and Zr-containing Zeolites
S.Kurucová, J.F. Miñambres, K. Golabek, J. Přečh_ Faculty of Science, Prague
- O3 Identifying true active sites in electrocatalysis using Molecular Modelling Techniques
M. Vandichel, A. Ngoipala, R. Lipin, R. Arevalo, S.V. Kumar Choutipalli_ University of Limerick
- O4 Tin catalyzed reductive couple of amines with CO₂ & H₂
A. Paparakis, A. Ashley, M. Hulla – Faculty of Science, Prague
- O5 Study of the effective (reactor) parameters on oxidative dehydrogenation of propane via boron nitride
M. Sajad, R. Bulanek - University of Pardubice
- O6 Synthesis of catalysts derived from MgM³⁺ layered double hydroxides and their application in aldol condensation
V. Korolova, O. Kikhtyanin, D. Kubička_ University of Chemistry and Technology Prague
- O7 Catalytic performance of microporous and mesoporous zirconosilicates in ethanol to butadiene transformation
A. Stýskalík, D. Hradský - Masaryk University
- O8 Hybrid acid catalysts prepared via grafting trimethylsilyl groups onto aluminosilicates
L. Leonova, J. Pinkas, A. Styskalik_ Masaryk University
- O09 Graphene with covalently-bound ligand functionalities for single-atom catalysis
V. Hrubý, M. Otyepka – CATRIN, Olomouc
- O10 Synthesis of Porous Amorphous Zirconophosphonates Xerogels for Epoxide Ring Opening Reaction
P. Machac, Z. Moravec, A. Styskalik, J. Pinkas_ Masaryk University
- O11 Catalytic pyrolysis of waste polypropylene
T. Ondrovič, E. Hájeková, J. Mikulec, M. Horňáček_ Technical University, Bratislava
- O12 Catalytic Etherification of Cyclopentanol and Ethanol in the Presence of Zeolites
Z. Magyarová, M. Hronec, P. Lopatka, T. Soták_ Technical University, Bratislava

- O13 Enhancing the production of hydrocarbons through pressurized catalytic pyrolysis of biomass
F. Artillo, J. Cueto, H. Hernando, P. Pizarro, D. Serrano – IMDEA, Mostoles
- O14 Use of in situ X-ray diffraction for characterization of catalytic materials
A. Albrecht, P. Adamski, D. Moszyński - West Pomeranian University of Technology in Szczecin
- O15 Supported cobalt-molybdenum catalysts for ammonia synthesis
P. Adamski, A. Wojciechowska, A. Jurkowski, A. Albrecht, M. Zgrzebnicki, D. Moszyński - West Pomeranian University of Technology in Szczecin
- O16 ZIF-8@PEO nanocomposite: insight into the structure
V. Kasneryk, M. P. M. Poschmann, M. Serdechnova, G. Dovzhenko, D. C. F. Wieland, C. Blawert, N. Stock, M.L. Zheludkevich - Helmholtz-Zentrum Hereon

POSTERS – Short Oral Presentations

- Po01 Synthesis of tetrahydropyran moiety-containing compounds via zeolite-catalyzed cascade
P. Golis, R. Barakov, Y. Zhang, M. Opanasenko, M. Shamzhy - Faculty of Science, Prague
- Po02 A new chiral cyclopentadienes for enantioselective Brønsted acid catalysis
M. Nigríni, M. Kamlar - Faculty of Science, Prague
- Po03 Differences in protonation of weak bases over protonic zeolites
J. Vaculík, R. Bulánek – University of Pardubice
- Po04 Hydrogen production from methanol-water mixture over NiO/TiO₂ nanorods structure photocatalysts
H. Wang, H. Jiang, P. Huo, M. Filip Edelmánová, L. Čapek, K. Kočí, R. Ricka - Technical University of Ostrava
- Po05 Use of LC-MS/MS for determination of Eprosartan's degradation products after photolysis and photocatalysis
A. Šlachtová, V. Tichavská, K. Kočí, B. Sokolová - Technical University of Ostrava
- Po06 Advanced oxidation processes for removal of pharmaceuticals from water
A. Kulišťáková - Technical University of Ostrava
- Po07 Cu/Al-SBA-15 catalysts for dimethyl adipate hydrogenolysis
B. Amin, J. Aubrecht, D. Kubicka - University of Chemistry and Technology Prague
- Po08 Catalytic Hydrogenation of Phenolic Compounds
S. Dutta, M. Mrva, B. Shumeiko, D. Kubicka - University of Chemistry and Technology Prague
- Po09 Hybrid guanidines as versatile ligands for early transition metal catalysts
N. Gira, M. Horáček, K. Pokorná, V. Varga - J. Heyrovsky Institute of Physical Chemistry
- Po10 Hydroxy and silanol terminated PE as promising supports?
V. Ráliš, V. Varga, J. Pinkas - J. Heyrovsky Institute of Physical Chemistry
- Po11 Si Influence study of Slag addition into Alkali-activated Zeolite Foams
K. Peroutková, Z. Tišler, E. Svobodová, K. Strejcová - Unice, a.s.
- Po12 Using alkali-activated zeolite foams as a support for cobalt catalyst in Fischer-Tropsch synthesis
E. Svobodová, Z. Gholami, Z. Tišler - Unice, a.s.

- Po13 Comparison of N₂ and Ar physisorption applied to leached alkali-activated natural zeolite-based foams
K. Strejcová, K. Peroutková, Z. Tišler, E. Svobodová - Unicre, a.s.
- Po14 Functionalization of mesoporous silicas with transition metals by TIE method and their application as NH₃-SCR catalysts
A. Pietraszek – Jagiellonian University
- Po15 Optimalization of spherical ZSM-5 zeolite synthesis used as catalysts for dimethyl ether synthesis
W.Dubiel, M. Rutkowska, Z. Piwowarska, A. Kowalczyk, L. Chmielarz – Jagiellonian University
- Po16 Low-temperature NH₃-SCR catalysts based on spherical MCM-41 modified with Cu via template ion-exchange method
A. Jankowska, A. Kowalczyk, M. Rutkowska, L. Chmielarz - Jagiellonian University
- Po17 A mechanochemical salt templating method towards porous mixed-metal oxide catalysts for CO₂ hydrogenation
G.A. Silva Alves, K. Föttinger – TU Wien
- Po18 Valorization of end-of-life tires by catalytic pyrolysis
F.M. González, I. Moreno, D.P. Serrano, P. Pizarro - IMDEA Energy Institute
- Po19 On the optimal Cs/Co ratio responsible for the N₂O decomposition activity of the foam supported cobalt oxide catalysts
A. Klegova, K. Pacultová, T. Kiška, J. Gryboś, Z. Sojka, L. Obalová - Technical University of Ostrava
- Po20 Photodecarboxylation of Fatty Acids
M. Naschetti, A. Dibenedetto, M. Aresta - University of Bari
- Po21 Preparation of new magnetic hybrid hypercrosslinked polymer derived carbon@MOF material as efficient adsorbent
M. Bauza, G. Turnes Palomino, C. Palomino Cabello - University of Baleares
- Po22 Support Design for Enhanced Catalytic Activity of SILP System by Pseudomorphic Transformation
A. Ahmed, A. Inayat, N. Vogel - University of Erlangen
- Po23 Hydrogenation of cinnamaldehyde over 2D and 3D Fe@MFI and CuFe@MFI prepared by reductive demetallation
A. Kurbanova, D. Zákutná, M. Mazur, J. Přeč - Faculty of Science, Prague
- Po24 CO₂ hydrogenation on iron-based catalysts
M. Kubíková, L. Kvítek, R. Pucek - Palacký University, Olomouc
- Po25 Selective synthesis of hymol over commercial zeolites
F. Poorsharbafe Ghavi, J. Čejka, J. Přeč - Faculty of Science, Prague
- Po26 Hydroconversion of sunflower oil to fatty alcohols and hydrocarbons
D. Kubicka - University of Chemistry and Technology Prague
- Po27 Enantioselective Bronsted Acid Catalysis
J. Veselý, V. Bhosale, M. Kamlar - Faculty of Science, Prague

Sponsors



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