

Monday, November 11

- 9:00 **Opening**
- 9:05 **PL 1** **Rebecca Melen**
SINGLE OR DOUBLE? A RADICAL APPROACH TO FRUSTRATED LEWIS PAIRS
- 10:05-10:50** **Coffee & Tea & Posters 1-23**
- 10:50 **OP 1** **Martin Hulla, Alexandros Paparakis, Andrea Žáková**
TIN HYDROGENATION CATALYSTS
- 11:10 **OP 2** **Karel Škoch, Michaela Buziková, Miroslava Litecká, Drahomír Hnyk, Kamil Lang, Kaplan Kirakci**
LEWIS ACIDIC BORON C,N-CHELATES FEATURING WEAKLY COORDINATING ANIONS
- 11:30 **KL 1** **Aleš Růžička**
BRINGING ELECTROPOSITIVE, SMALL AND BORING METALS TO THE HOMOGENOUS CATALYSIS PODIUM
- 12:00-14:00** **Lunch Break**
- 14:00 **PL 2** **Thomas Braun, Ouchan He, Christian Heinekamp, Gisa Meißner, Soodeh Mollasalehi, Stefan Sander, Maria Talavera, Cortney von Hahmann**
METAL-MEDIATED DERIVATIZATION OF FLUORINATED MOLECULES: FROM MODEL REACTIONS TO CATALYSIS
- 15:00 **OP 3** **Satenik Mkrtchyan, Michał Jakubczyk, Vishal B. Purohit, Sehrish Sarfaraz, Khurshid Ayub, Barbora Benická, Viktor O. Iaroshenko**
MECHANOCHEMICAL DEOXYGENATIVE CROSS-COUPPLING REACTIONS OF PHENOLS UNDER RUTHENIUM-NICKEL CATALYSIS
- 15:20-16:00** **Coffee & Tea & Posters 1-23**
- 16:00 **KL 2** **Pavla Eliášová**
PHOTO(ELECTRO)CATALYTIC CONVERSION OF CO₂ TO SOLAR FUELS
- 16:30 **OP 4** **Petr Macháč, Zdeněk Moravec, Aleš Stýskalík**
NON-AQUEOUS BUILDING-BLOCK APPROACH TO ZIRCONOSILICATE CATALYSTS
- 16:50 **OP 5** **Martin Lamač, Béla Urbán, Abhishek Udnoor, Michal Horáček, Karel Škoch, Jan Hynek, Jan Demel**
DEOXYGENATION AND DEHALOGENATION CHEMISTRY ON ACTIVATED BORANE – A HETEROGENOUS LEWIS ACID CATALYST
- 17:10 Catalysis in Czechia (Information from Czech Catalytic group)
- 19:00** **Banquet in Vila Lanna**

Tuesday, November 12

- 9:00 **PL 3** **David P. Serrano**
PROGRESS IN THE DESIGN OF ZEOLITIC MATERIALS FOR CATALYTIC
PYROLYSIS OF BIOMASS RESIDUES AND WASTE PLASTICS
- 10:10-10:50** **Coffee & Tea & Posters 24-46**
- 10:50 **OP 6** **Michal Mazur**, Daria Sudakova, Samuel Kolesár, Jan Přeč, Tina Ročník
Kozmelj, Blaž Likozar, Edita J. Grojzdek
STABILIZATION OF Ru-Ni CATALYSTS ON MCM-56: SYNTHESIS AND
HYDRODEOXYGENATION PERFORMANCE
- 11:10 **OP 7** **Tetiana Pavlovska**, Radek Cibulka
NONCANONICAL CHEMISTRY OF MODIFIED FLAVINS - REMOVAL OF α -
AMINO ACIDS ARYLACYL PROTECTING GROUPS VIA FLAVIN
ORGANOCATALYSIS
- 11:30 **KL 3** **Petr Sazama**, Galina Sádovská, Jaroslava Morávková, Radim Pilař, Jana
Pastvová, Alena Vondrová, Somayeh F. Rastegar, Nikola Kostková,
Dalibor Kaucký
EFFECT OF CONFINEMENT OF ACTIVE SITES AND REACTANT
MOLECULES ON EFFICIENCY OF CATALYTIC PROCESSES
- 12:00-14:00** **Lunch Break**
- 14:00 **KL 4** **Eliška Vyskočilová**
CATALYSIS: THE PATH TO SUSTAINABLE SOLUTIONS IN FINE CHEMICALS
- 14:30 **OP 8** **Paweł Horeglad**
THE CHELATION EFFECT IN THE RING-OPENING POLYMERIZATION OF
RAC-LACTIDE AND BEYOND – A FRIEND OR FOE?
- 14:50 **OP 9** Pasi Salonen, Anssi Peuronen, **Ari Lehtonen**
ALKENE EPOXIDATION CATALYZED BY DIOXIDOMOLYBDENUM(VI) AND
DIOXIDOTUNGSTEN(VI) AMINOBISPHENOLATO COMPLEXES
- 15:10 **OP 10** **David Škoda**, Ran Zhu, Barbora Hanulikova, Ales Stýskalík, Petr Macháč,
Vit Vykoukal, Ivo Kuritka, Lucie Simonikova, Damien P. Debecker, Claude
Poleunis, Yuriy Román-Leshkov
MICROWAVE-ASSISTED SOL-GEL SYNTHESIS OF MOLYBDENUM SILICATE
MICROSPHERES AND THEIR CATALYTIC ACTIVITY IN PROPYLENE
METATHESIS
- 15:30-16:00** **Coffee & Tea & Posters 24-46**
- 16:00 **OP 11** **Ladislav Lóška**, Vojtěch Dočekal, Daniel Čermák, Jan Veselý
STEREOSELECTIVE N-HETEROCYCLIC-CARBENE-CATALYZED
SPIROANNULATION AS AN ACCESS TOWARDS SPIROBENZOFURANONE-
FUSED CYCLOHEXENONES

- Po 10** Tomáš Soták, Katarína Fulajtárová, Dana Gašparovičová, Július Annus, **Blažej Horváth**
NANOSTRUCTURED VANADIUM CATALYSTS FOR OXIDATION OF CELLULOSE
- Po 11** **Blažej Horváth**, Tomáš Soták, Dana Gašparovičová, Július Annus
TRANSFORMATION OF BIOETHANOL INTO IMPORTANT CHEMICAL INTERMEDIATES
- Po 12** **Paweł Huninik**, Hoyoung Im, Jakub Szyling, Mu-Hyun Baik, Jędrzej Walkowiak
MARKOVNIKOV-SELECTIVE OLEFIN HYDROBORATION CATALYZED BY IONIC LIQUIDS
- Po 13** **Michał Jakubczyk**, Karel Škoch
CATIONIC BORENIUM SPECIES FOR ENHANCED LEWIS ACIDITY
- Po 14** **Jan Konečný**, Martin Veselý, Martina Pitínová, Zdeněk Sofer
MODIFIED GERMANAN USED FOR CATALYSIS OF HYDROFORMYLATION REACTION
- Po 15** **Nikola Kostková**, Somayeh F. Rastegar, Galina Sadovska, Radim Pilař, Jaroslava Moravková, Dalibor Kaucký, Alena Vondrová, Pavla Honcová, Petr Sazama
NICKEL NANOPARTICLES CONFINED IN MICRO-MESOPOROUS ZSM-5 ZEOLITE CATALYSTS FOR METHANIZATION OF CO₂
- Po 16** **František Krákl**, Christopher James Heard, Michal Mazur
TUNING THE ALUMINIUM CONTENT IN MFI AS A TOOL FOR CONTROLLING THE THERMAL STABILITY OF Pt AND Pd NANOPARTICLES
- Po 17** **Milan Králik**, Martin Markovič, Peter Kooš, Pavol Lopatka
PROS AND CONS OF ORGANIC AND METAL-ORGANIC POLYMER BASED CATALYSTS
- Po 18** **Mariia Lemishka**, Jiří Dědeček, Kinga Mlekodaj, Dalibor Kaucky, Agnieszka Kornas, Edyta Tabor
BINUCLEAR VANADIUM CENTERS IN FERRIERITE ZEOLITE
- Po 19** **Lucie Leonova**, Petr Sazama, Zdeněk Moravec, Dalibor Kaucký, Aleš Stýskalík, Damien P. Debecker
TIN SILICATES PREPARED BY NON-HYDROLYTIC SOL-GEL AND THEIR POST-SYNTHETIC MODIFICATION
- Po 20** **Magdaléna Linková**, Pavla Eliášová, Luis A. M. Carrascosa, Jiří Čejka
VISIBLE LIGHT-DRIVEN CONVERSION OF CO₂ OVER Cu₂O/MXene COMPOSITES
- Po 21** **Pavol Lopatka**, Martin Markovič, Peter Kooš, Milan Králik
MULTIPHASE GAS-LIQUID-SOLID CATALYTIC TRANSFORMATIONS USING BIO-DEGRADABLE POLYMER SUPPORTED CATALYSTS
- Po 22** **Jan Moravčík**, Luděk Kaluža, Karel Soukup, Martin Sádecký, Jaroslav Kocík
CATALYSTS OF HETEROATOM ELIMINATION IN THE REFINING OF HYDROCARBON FEEDS
- Po 23** **Jaroslava Morávková**, Somayeh F. Rastegar, Radim Pilař, Galina Sádovská, Nikola Kostková, Petr Sazama
METAL CLUSTERS ON NANOSTRUCTURED CARBON SUPPORTS FOR CATALYTIC REDUCTION OF CO₂ BY H₂ TO CO, METHANOL AND HYDROCARBONS

- Po 24** **Vlastimil Němec**, Jan Vrána, Josef Holub, Maksim A. Samsonov, Aleš Růžička
CHEMISTRY OF ELECTRON RICH 10-VERTEX CARBORANE CLUSTERS
- Po 25** Olga Gorlova, **Iva Paterová**
(Sn, Fe) Mg/Zn-Al HYDROTALCITES AS EFFICIENT CATALYSTS FOR BAEYER-VILLIGER
OXIDATION OF ALDEYDES WITH CYCLIC STRUCTURES: ROLE OF COMPOSITION AND
SURFACE PROPERTIES
- Po 26** Vojtech Varga, Martin Lamač, Michal Horáček, **Jiří Pinkas**
THE ROLE OF Fe–Si BOND ACTIVATION IN ETHYLENE POLYMERIZATION
- Po 27** **Martina Pitínová**, Iryna Danylo, Alica Krnáčová, Lukáš Koláčný, Jan Luxa, Martin Veselý
STYRENE HYDROFORMYLATION CATALYZED BY RHODIUM SUPPORTED ON 3D AND 2D
MOS₂ SUPPORTS
- Po 28** **Radka Pocklanová**, Manoj B. Gawande, Libor Kvítek
CARBON MATERIALS IN CATALYTIC PROCESSES: GRAPHENE OXIDE VS. NANODIAMONDS
- Po 29** **Tomáš Pokorný**, Ran Zhu, David Škoda, Lucie Simonikova, Yuriy Roman, Aleš Stýskalík
MOLYBDENUM-DOPED SILICA NANOFIBERS: SYNTHESIS, CHARACTERIZATION, AND
APPLICATION IN OLEFIN METATHESIS
- Po 30** **Anna Rejzková**, Marek Plachý, Eliška Vyskočilová
REACTIVITY OF MONOTERPENE OXIDES WITH ACETIC ANHYDRIDE
- Po 31** **Galina Sádovská**, Alena Vondrová, Radim Pilař, Jaroslava Morávková, Petr Klein, Dalibor
Kaucký, Petr Sazama
METHANOL-TO-HYDROCARBONS TRANSFORMATION: IMPACT OF STRUCTURAL DEFECTS
IN MICRO-MESOPOROUS H-ZSM-5 ZEOLITES ON CATALYTIC EFFICIENCY AND DURABILITY
- Po 32** **Sharmistha Saha**
DEVELOPMENT OF MULTIFUNCTIONAL TiO₂/SiO₂ MATERIAL AS A CATALYTIC SUPPORT
- Po 33** **Abdul Selim**, Zan Lavric, Ana Kroflic, Blaž Likozar, Jaroslav Kupcík, Esther de Prado, Jan
Plsek, Eliska Mikyskova, Jaroslava Moravkova, Matej Hus, Stefan Vajda and Joanna E.
Olszowka
STRUCTURE-ACTIVITY DEPENDENCE in Au/Pt NANOCATALYST SUPPORTED ON ZrO₂ FOR
GLUCOSE OXIDATION TO GLUCARIC ACID
- Po 34** **Rostislav Sponar**, Radek Cibulka
CATALYTIC SELECTIVE OXIDATIONS BY FLAVINS PHOTOCATALYSTS IN
ELECTROPHOTOCHEMICAL SETUP
- Po 35** Ondřej Moždiak, Roman Jambor, **Michael Srb**
THIN FILMS OF FUNCTIONALIZED HETEROBOROXINES
- Po 36** **Aleksandra Szymańska**, Jakub Szyling, Jędrzej Walkowiak
HYDROBORATION OF KETONES CATALYZED BY SIMPLE MANGANESE COMPLEXES
- Po 37** **Peter Šramel**, Jan Vrána, Aleš Růžička
EXPLORING THE CATALYTIC ACTIVITY OF THE ELECTRON-RICH CARBORANES IN ORGANIC
SYNTHESIS

- Po 38** **Abhishek Udnoor**, Aleš Stýskalík, Tomáš Zelenka, Roman Bulánek, Jan Demel
HIEARCHICAL CHARCOAL - ACTIVATED BORANE COMPOSITE AS CATALYST FOR
DEHYDRATION OF ETHANOL
- Po 39** **Béla Urbán**, Róbert Gyepes, Michal Horáček, Jiří Pinkas, Martin Lamač
SEMI-HYDROGENATION OF INTERNAL ACETYLENES CATALYSED BY
CATIONIC TITANOCENE HYDRIDE SPECIES
- Po 40** **Stanislav Valtera**, Mykhailo Vaidulych, Magda Zlámalová, Kevin Oldenburg, Ingo Barke,
Stephan Bartling, Scott L. Anderson, Štefan Vajda
SUPPORT-DEPENDENT CATALYTIC ACTIVITY OF ATOMICALLY PRECISE Pt CLUSTERS ON
TiO₂ AND SnO₂
- Po 41** **Klára Veselá**, Jun Xie, Jan Přečh
IMPACT OF BASE ADDITION ON THE MPV REDUCTION KINETICS
- Po 42** **Eva Vrbková**, Lucie Stoupová, Eliška Vyskočilová
STUDY ON ALDOL CONDENSATION IN SYNTHESIS OF SANDALWOOD-LIKE FRAGRANCE
- Po 43** **Dominic Walter**, Andreas Lišner, Bianca Störr, Florian Mertens
DEACTIVATION OF Cu/ZnO/Al₂O₃ CATALYSTS IN LIQUID PHASE ASSISTED METHANOL
SYNTHESIS FROM CO₂/H₂ AND A NEW WAY TO COUNTERACT IT
- Po 44** **Jun Xie**, Martin Kubů, Jan Přečh, Jiří Čejka
PALLADIUM/ZEOLITES SACs ARE EFFICIENT CATALYSTS FOR PARTIAL HYDROGENATION OF
ALKYNOLS
- Po 45** Tomasz Sokolnicki, Kinga Stefanowska – Kałna, Adrian Franczyk, Bartłomiej Janowski,
Radosław Kozak, **Jędrzej Walkowiak**
SYNTHESIS OF NEW SILICA MODIFIERS FOR THE TIRE INDUSTRY
- Po 46** **Martin Zapletal**, Eva Vrbková
CARVACRYL ESTER SYNTHESIS USING MONTMORILLONITE AS CATALYST – KINETIC
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