

## Poster session schedule

Monday, May 3, 18:00–19:00

Tuesday, May 4, 18:00–19:00

We ask the authors of the poster presentations to be present at the live chat during the poster session for any questions from the participants.

Oil, Petrochemicals, Biofuels	
P1	<i>Miroslava Mališová (STU in Bratislava)</i> <b>Heterogeneous transesterification of camelina sativa catalysed by potassium impregnated Mg/Al mixed oxides to prepare biodiesel</b>
P2	<i>Božena Vasilková (STU in Bratislava)</i> <b>Combined thermal and catalytic cracking of waste plastics in the presence of clinoptilolite</b>
P3	<i>Miroslav Variny (STU in Bratislava)</i> <b>Modeling oxygen production via cryogenic air separation</b>
P4	<i>Petr Jíša (Orlen UniCRE)</i> <b>Alternative usage of MSCR test for evaluation of type and content of the used polymer</b>
P5	<i>Dominik Schlehöfer (Orlen UniCRE)</i> <b>Compatibility of marine fuels containing alternative materials</b>
P6	<i>Karolína Dlasková Jaklová (Orlen UniCRE)</i> <b>Co-processing of pyrolysis products</b>
P7	<i>Héctor de Paz Carmona (Orlen UniCRE)</i> <b>Co-processing of atmospheric gas oil with furfural-acetone aldol condensation adducts</b>
P8	<i>Tomáš Cibulka (Slovnaft)</i> <b>Hydrogen production optimization in refining industry</b>

Gas, Coal, Fuel	
P9	<i>Petr Seghman (CTU in Prague)</i> <b>Mutual interaction of components during membrane separation of gases</b>
P10	<i>Miroslav Variny (STU in Bratislava)</i> <b>Industrial combined heat and power plant repowering proposal</b>
P11	<i>Jan Kulas (ÚJV Řež / UCT in Prague)</i> <b>Catalytic methanization biogas using catalysts based on Ni and Ni/Co</b>

Materials engineering	
P12	<i>Klára Kobetičová (CTU in Prague)</i> <b>Binding interactions of metylxanthines to beech wood</b>
P13	<i>Kateřina Strejcová (Orlen UniCRE)</i> <b>Influence of the addition of blast furnace slag to alkali-activated mixtures based on natural zeolites</b>
P14	<i>Aleš Imramovský (University of Pardubice)</i> <b>Substituted diphenylamino styryl benzenes as promissive materials with tunable intense solid state fluorescence – synthetic approach to key intermediate</b>
P15	<i>Halyňa Starukh (VSB TU, Ostrava)</i> <b>Precursor-reforming synthesis of mesoporous g-C<sub>3</sub>N<sub>4</sub> nanosheets for photocatalytic destruction of organic dye and pharmaceuticals</b>
P16	<i>Halyňa Starukh (VSB TU, Ostrava)</i> <b>TiO<sub>2</sub>-LDH nanocomposites for organic dye removal from aqueous media by adsorption and photocatalytic degradation</b>
P17	<i>Milan Olšovský (ZVS IMPEX)</i> <b>Development of ecological pyrotechnic compositions</b>

Organic technology	
P18	<i>Blažej Horváth (STU in Bratislava)</i> <b>Catalytic transformations of bioethanol</b>
P19	<i>Tomáš Soták (STU in Bratislava)</i> <b>Catalytic oxidation of furfural to maleic acid in the presence of iron based catalysts</b>
P20	<i>Tomáš Soták (STU in Bratislava)</i> <b>Effect of the support on manganese carbon catalysts for oxidation of cyclohexanone by molecular oxygen</b>
P21	<i>Eliška Pilařová (University of Pardubice)</i> <b>Preparation of pseudopeptide aldehydes and vinyl sulfones as a potential proteasome inhibitors</b>
P22	<i>Olga Gorlova (UCT in Prague)</i> <b>Selective Meerwein-Ponndorf-Verley reduction of cinnamaldehyde over Al-containing catalysts</b>
P23	<i>Roman Valeš (UCT in Prague)</i> <b>The effect of temperature and concentration of water on oxidation of dicyclohexylamine with air</b>

Polymers, composites	
P24	<i>Silvie Duřpeková (Tomáš Baťa University in Zlín)</i> <b>A comparative study of different polymer matrix with photoactive pigment on thermal and antibacterial properties</b>
P25	<i>Silvie Duřpeková (Tomáš Baťa University in Zlín)</i> <b>Swelling properties and biodegradability of a new agro-hydrogel based on renewable materials for agricultural use</b>
P26	<i>Elena Hájeková (STU in Bratislava)</i> <b>Two stage catalytic cracking of HDPE and PP in the presence of natural and synthetic zeolites</b>
P27	<i>Kateřina Setničková (ICHP CAS, Prague)</i> <b>Amine-functionalized porous polymers for selective CO<sub>2</sub> adsorption</b>

Economics of chemical industry	
P28	<i>Jan Vávra (University of Pardubice)</i> <b>Limits and barriers to product life cycle monitoring for chemicals – a case study</b>
P29	<i>Jana Košťálová (University of Pardubice)</i> <b>Green human resource management in companies of Czech chemical industry</b>
P30	<i>Michal Paták (University of Pardubice)</i> <b>Sustainable packaging innovations for cosmetic products</b>
P31	<i>Josef Košťálek (UCT in Prague)</i> <b>Identification of factors influencing oil and gas prices and their mutual correlations</b>
P32	<i>Josef Košťálek (UCT in Prague)</i> <b>Identification of factors influencing oil and gas prices and their mutual correlations</b>

Synthesis and production of drugs	
P32	<i>Jana Brokešová (Charles University, Hradec Králové)</i> <b>Preparation of meloxicam interactive powder mixtures by mixing and co-milling: Surface energy and dissolution rate study</b>
P33	<i>Aleš Imramovský (University of Pardubice)</i> <b>A stereoselective study of alfaprostol omega chain synthesis – application possibilities in the synthesis of intermediates</b>
P34	<i>Radim Bittner (UCT in Prague)</i> <b>Dissolution kinetics of commercially available tablets using an optical microscopy technique</b>
P35	<i>Jan Petr (UCT in Prague)</i> <b>Monitoring the roll compaction process via ribbon stiffness measurement</b>
P36	<i>Nikita Marinko (UCT in Prague)</i> <b>Technique of pharmaceutical powder compressibility measurement for utilization in predictive mathematical modelling of compaction processes</b>

Waste treatment, water protection	
P37	<i>Lucie Šudomová (Brno University of Technology)</i> <b>PET-G as a PET contaminant</b>
P38	<i>Lukáš Krátký (CTU in Prague)</i> <b>Modelling particle size characteristics and specific energy demand for knife-milled beech chips at different moistures</b>
P39	<i>Amer Inayat (VSB-TU Ostrava)</i> <b>Resource recovery from waste polystyrene via thermo-catalytic depolymerization</b>
P40	<i>Klára Pulcová (UCT in Prague)</i> <b>Resistance of mixtures of Czech high temperature ash associates to alternative freezing and thawing</b>

Air protection, technologies for soil decontamination	
P41	<i>Petr Praus (VSB TU, Ostrava)</i> <b>Photocatalytic decomposition of nitrous oxide over sulphur modified graphitic carbon nitride</b>

**Biotechnology and biorefinery**

P42	<i>Vojtěch Bělohav (CTU in Prague)</i> <b>Homogenization and mixing of flow in flat panel photobioreactor</b>
P43	<i>Jana Schwarzerová (Brno University of Technology)</i> <b>Operon structure inference in Clostridium beijerinckii NRRL B-598 using RNA-SEQ</b>
P44	<i>Kateřina Heřmanová (UCT in Prague)</i> <b>Effects of furan derivatives and phenolic compounds on ABE production by Clostridium beijerinckii</b>
P45	<i>Jana Michailidu (UCT in Prague)</i> <b>Metal nanoparticle synthesis mediated by cannabis sativa extract and their antimicrobial activity</b>
P46	<i>Elizaveta Timkina (UCT in Prague)</i> <b>Biodiversity of prokaryotes of radon springs in Jáchymov</b>
P47	<i>Barbora Branská (UCT in Prague)</i> <b>Cultivation strategy as a tool to mitigate the negative effect of lignocellulose derived inhibitors</b>
P48	<i>Pavel Diviš (Brno University of Technology)</i> <b>Isolation of ferulic acid from wheat bran using various adsorbents</b>
P49	<i>Jaromír Pořizka (Brno University of Technology)</i> <b>Production and analysis of crude biochar produced from wheat bran</b>
P50	<i>Valentína Kafková (Združenie Energy 21)</i> <b>Circular biodiesel downstream side-products utilization for upstream biodiesel valorization</b>

**Chemical processes and devices**

P51	<i>Martin Mullenko (CTU in Prague)</i> <b>Experimental assessment of ceramzite particle characteristics for dem simulation</b>
P52	<i>Viktor Vajc (CTU in Prague)</i> <b>How does uncertainty of thermal conductivity impact measurements of pool boiling heat transfer coefficient?</b>
P53	<i>Mehmet Ayas (CTU in Prague)</i> <b>Investigation of mixing time of shear-thinning fluids</b>
P54	<i>Michaela Kohútová (STU in Bratislava)</i> <b>The influence of process parameters on the impregnation stage of beech wood chips</b>

**Inorganic technology**

P55	<i>Vojtěch Galek (Centrum výzkumu Řež)</i> <b>Use of MSO technology for disposal of tetrachlorethylene</b>
P56	<i>Martina Novotná (UCT in Prague)</i> <b>Geopolymers: influence of alkaline activator cations on efflorescence</b>
P57	<i>Miloslav Lhotka (UCT in Prague)</i> <b>Cooperation with Austin Detonator, s.r.o. – from research to technology</b>