Conference Programme

9:00–9:10 Conference Opening

9:10–9:25 Mgr. Adéla Holubová-Šmejkalová: Aerosol Particle Formation During Summer Campaign at Rural Background Site Košetice


9:40–9:55 Maja Čanji, MSc.: Thermodynamic Properties of Saccharinate-based Ionic Liquids: Comparison of Experimental Data to Prediction by means of COSMO-RS

9:55–10:10 Nikola Zdolšek, MSc.: New Porous Carbon Electrocatalysts Derived from Ionic Liquid for Oxygen Reduction Reaction

10:10 Coffee Break

10:30–10:45 Ing. Lubomír Váňa: Synthesis of Amidoazaphenacenes for Applications in Molecular Electronics


11:00–11:15 Ing. Martin Jakubec: Helicene-Based Thioureas

11:15–11:30 Ing. Tomáš Beránek: Transition-Metal Complexes with Helical Phosphines

11:30 Lunch Break


12:45–13:00 Ing. Jakub Bumba: Preparation of Magnesium Silicide and Magnesium Germanide from Waste for Material Recovery

13:00–13:15 Massimo Ujčić, Ing., Mgr.: Reaction kinetic study of heterogeneous hydrogenations for 3D-printed catalysts

13:15–13:30 Kingsley Ezeji, MSc.: Hydrodynamic Behavior of Bubbles in Slot Channels
13:30 **Coffee Break**

13:45–14:00 Ing. Jiří Brynda: *High-Temperature Desulfurization of a Producer Gas by La- and Ce-based Oxides*

14:00–14:15 Ing. Jaroslav Moško: *Preliminary Evaluation of Sewage Sludge Biochar Composition and Mass and Energy Balance of the Sludge Pyrolysis*

14:45–15:00 Ing. Boleslav Zach: *Dry Flue Gas Treatment: Preparation for Experimental Campaign and Preliminary Experiments*

15:00–15:15 Ing. Marie Cerhová: *Use of Water-Modified Supercritical Carbon Dioxide for Direct Preparation of Crystalline Monolithic TiO$_2$ Aerogels*

15:30 **Conference Closing**

16:30 **Conference Winners Announcement**