

**13:00 – 13:15 OPENING CEREMONY**

*Assoc. Prof. Ing. Jaromír Lederer, Ph.D. | ČSPCH President  
Ing. Jaromír Lubojacký, MBA | Program Committee President*

**13:15 – 13:30 VIKTOR ETTTEL AWARD**

*Assoc. Prof. Ing. Jaromír Lederer, CSc., ČSPCH President*

**13:30 – 17:55 PLENARY LECTURES**

*Chairman: Lederer J. | Litvínov*

*13:30 – 13:45*

**1. National Competence Centers – Chemistry**

*Ing. Ivan Souček, CSc., SCHP ČR*

*13:45 – 14:25*

**2. Present and Future of Electric Cars**

*Ing. Jaromír Marušinec, Ph.D., MBA  
President of the Association of the Electric Vehicle Industry*

*14:25 – 14:55*

**3. Hydrogen Drive (for Us) – Episode or Long-Term Perspective of Motorism**

*Ing. Jiří Hájek, MBA, UNIPETROL RPA, Litvínov*

*14:55 – 15:25*

**4. North Bohemian Lithium – A Chemical or Political Problem?**

*Assoc. Prof. Ing. Vlastimil Brožek, DrSc., UCT Prague*

*15:25 – 15:55 Coffee break*

*15:55–16:25*

**5. The Aluminum that Was, Is and Will Be Long ...**

*Prof. Ing. Ján Híveš, Ph.D., FCHPT STU Bratislava, SK*

*16:25–16:55*

**6. Design of Chemical Processes – General Approach and Practical Experience**

*Ing. Jiří Trejbal, Ph.D., UCT Prague*

*16:55–17:25*

**7. Production of Solid Pharmaceuticals Through the Eyes of (Chemical) Process Engineer**

*Assoc. Prof. Ing. Petr Zámotný, Ph.D., UCT Prague*

*17:25–17:55*

**8. Advances and Challenges in Processes with Heterogeneous Catalysts**

*Ing. Michal Horňáček, Ph.D., FCHPT STU, Bratislava, SK*

**MONDAY, April 16, 2018**

**FOYER + AURELIUS HALL**

**18:00 – 22.00 POSTER SESSION, WELCOME DRINK**

*Chairman: Hanika J. | Prague*

We ask the authors to be present at their posters at least from 19:00 to 20:00.  
The best poster will be awarded in Aurelius Hall at 21:00.

**8:30 – 10:10 MATERIAL ENGINEERING***Chairman: Vojtěch D. | Prague*

- MI1. Surface Nanostructures for Sers Detection**  
8:30 Švorčík V.<sup>1</sup>, Kalachyova Y.<sup>1</sup>, Lyutakov O.<sup>1</sup>, Kolská Z.<sup>2</sup> | <sup>1</sup>Prague, <sup>2</sup>Ústí nad Labem
- MI2. Research in the Field of Metal 3D Printing on UCT Prague**  
8:55 Fousová M., Dvorský D., Vojtěch D. | Prague
- MI3. 3D Printing of Magnesium Alloys by SLM Technology**  
9:20 Krištofová P., Vojtěch D. | Prague
- MI4. Fabrication of Diffractive Optical Elements for Photonic Applications**  
9:45 Vlcek M., Palka K., Slang S., Loghina L., Iakovleva A., Grinco M. | Pardubice

10:10 – 10:30 Coffee break

**10:30 – 12:10 MATERIAL ENGINEERING***Chairman: Vojtěch D. | Prague*

- MI5. Influence of Nonstoichiometry on Thermoelectric Properties of Single Crystalline SnSe**  
10:30 Šraitrová K., Kucek V., Drašar Č. | Pardubice
- MI6. Biodegradable Magnesium and Zinc Based Alloys for Applications in Medicine**  
10:55 Kubásek J., Dvorský D., Vojtěch D. | Prague
- MI7. Texture of Pure Zinc Wire Prepared by Direct Extrusion**  
11:20 Čapek J., Pinc J., Klimša L., Maňák J., Habr S. | Prague
- MI8. Characterization of Porous Biodegradable Zinc Prepared by Electric ARC Spraying**  
11:45 Pinc J., Čapek J., Msallamová Š., Vojtěch D. | Prague

12:10 – 13:40 Lunch

**13:40 – 15:20 MATERIAL ENGINEERING**

*Chairman: Vojtěch D. | Prague*

**MI9. Interaction of Titanium Alloys with Body Environment Models**

13:40 *Jarolímová P., Průchová E., Fojt J., Joska L. | Prague*

**MI10. A Method for *In-Situ* Biofilm Formation Monitoring on Metallic Biomaterials via Electrochemistry**

14:05 *Průchová E., Joska L., Míka P., Jarolímová P., Kosová M. | Prague*

**MI11. Optimalizace podmínek přípravy a kompaktizace slitin Fe-Al-Si**

14:30 *Průša F.<sup>1</sup>, Šesták J.<sup>1</sup>, Oceáne G.<sup>1</sup>, Cygan S.<sup>2</sup> | <sup>1</sup>Prague, <sup>2</sup>Krakow, PL*

**MI12. Microstructure and Mechanical Properties of TiAl15Si15 Alloy Prepared by Spark Plasma Sintering**

14:55 *Knaislová A.<sup>1</sup>, Novák P.<sup>1</sup>, Průša F.<sup>1</sup>, Cygan S.<sup>2</sup>, Jaworska L.<sup>2</sup> | <sup>1</sup>Prague, <sup>2</sup>Krakow, PL*

15:20 – 15:40 Coffee break

**15:40 – 17:45 MATERIAL ENGINEERING**

*Chairman: Vojtěch D. | Prague*

**MI13. Development of Materials Based on Iron Aluminides**

15:40 *Nová K., Novák P., Průša F. | Prague*

**MI14. Corrosion and Conservation of Lead Bulls Attached to Historical Documents**

16:05 *Strachotová K.Ch., Kouřil M. | Prague*

**MI15. Corrosion Protection of Reinforcement in Reinforced Concrete Structure Using Corrosion Inhibitor**

16:30 *Lovaši T., Kouřil M. | Prague*

**MI16. Preparation and Modifications of Fluorinated Graphene**

16:55 *Mazanek V., Pavlikova L., Szőkölóvá K., Sofer Z. | Prague*

**MI17. Heavy Metal Ions Uptake from Aqueous Solutions by Graphene Oxide**

17:20 *Szőkölóvá K., Pavlikova L., Mazanek V., Sofer Z. | Prague*

**10:20 – 10:40, 15:20 – 15:40**

**Presentation of CATPRO research infrastructure – opportunities, projects, equipment**

*The project Efficient Use of Energy Resources Using Catalytic Processes (project code LM2015039, acronym CATPRO) has been financially supported by the Ministry of Education, Youth and Sports of the Czech Republic within the targeted support of large infrastructures.*



**8:30 – 10:20    PETROCHEMICALS AND ORGANIC TECHNOLOGY***Chairmen: Lederer J., Krupka J. | Litvínov, Prague***PT1.    Catalytic Aspects of Industrial Hydrogenations of Nitriles***8:30    Krupka J. | Prague***PT2.    The Story of 4-Aminodiphenylamine***9:05    Králik M., Balko J., Wenchich Š., Végh Z., Muntágová L., Kučera M. | Bratislava, SK***PT3.    Mg-Fe Mixed Oxides in Aldol-Condensation of Furfural with Acetone***9:30    Kocík J.<sup>1</sup>, Scholze E.<sup>1</sup>, Kubička D.<sup>2</sup>, Horáček J.<sup>1</sup>, Tišler Z.<sup>1</sup> | <sup>1</sup>Litvínov, <sup>2</sup>Kralupy nad Vltavou***PT5.    Hydrogenolysis of Dimethyladipate over Copper Oxide-Zinc Oxide-Alumina Catalysts: Reaction Pathway, Products and Intermediates***9:55    Pospelova V.<sup>1</sup>, Aubrecht J.<sup>1</sup>, Kubička D.<sup>2</sup> | <sup>1</sup>Prague, <sup>2</sup>Kralupy nad Vltavou**10:20 – 10:40    Coffee break***10:40 – 11:55    PETROCHEMICALS AND ORGANIC TECHNOLOGY***Chairmen: Lederer J., Krupka J. | Litvínov, Prague***PT6.    Improvements in Temperature Control System of Residual Hydrocracker Unit***10:40    Janošovský J., Bartoš M., Labovský J. | Bratislava, SK***PT7.    Development of Laboratory Reactor and Its Use for the Study of Coke Formation During Pyrolysis of Hydrocarbon Feedstocks***11:05    Jambor B., Hájeková E. | Bratislava, SK***PT8.    Hydrogenation of C6 Dienic Compounds Using Ruthenium Catalysts***11:30    Kotova M., Vyskočilová E., Červený L. | Prague**11:55 – 13:40    Lunch*

**13:40 – 15:20 OIL, GAS, COAL, FUEL, BIOFUELS**

*Chairmen: Blažek J., Mikulec J. | Prague, Bratislava, SK*

**RP1. How C<sub>4</sub> Hydrocarbons Can Be Exploited in the Current Crude Oil Refinery**

*13:40 Kittel H. | Prague*

**RP2. Analysis of a Refinery's Steam Network Operation**

*14:05 Variny M., Hanus K., Šupa I., Illés P. | Bratislava, SK*

**RP3. Comparative Model Study on Black Liquor IGCC Versus Modern Recovery Boiler Incorporation into the Utility System of a Paper Mill**

*14:30 Variny M., Hruška M., Mierka O. | Bratislava, SK*

**RP4. Assessment of Certain Industrial Biomass-Fired Steam Boiler Thermal Efficiency and Operation Reliability Related Aspects**

*14:55 Mierka O., Variny M., Janošovský J. | Bratislava, SK*

*15:20 – 15:40 Coffee break*

**15:40 – 18:10 OIL, GAS, COAL, FUEL, BIOFUELS**

*Chairmen: Blažek J., Mikulec J. | Prague, Bratislava, SK*

**RP5. Potential and Limitations of Modern Kraft Boilers Design Impact on Utility System of a Paper Mill – A Case Study**

*15:40 Blahušíak M., Variny M., Mierka O. | Bratislava, SK*

**RP6. Comparison of Hydrotreated Vegetable Oil and Rapeseed Oil Methyl Esters: Properties, Material and Energetic Balance and Sustainability Criterion**

*16:05 Kittel H., Šimáček P., Pospíšil M., Souček I. | Prague*

**RP7. Comparison of Sulfidic and Non-Sulfidic Catalysts for Pyrolysis Bio-Oil Hydrotreating**

*16:30 Shumeiko B., Vrtiška D., Šimáček P., Kubička D. | Prague*

**RP8. Petroleomic Characterization of Pyrolysis Bio-Oils**

*16:55 Staš M. | Prague*

**RP9. Properties and Composition of Bio-Oil Hydrodeoxygenation Products**

*17:20 Auersvald M., Staš M., Šimáček P. | Prague*

**RP10. Comparison of Sulfidic and Non-Sulfidic Catalysts for Hydrotreating of Rapeseed Oil**

*17:45 Straka P., Váchová V., Šimáček P. | Prague*

**8:30 – 10:10 PHARMACEUTICAL TECHNOLOGY***Chairman: Kratochvíl B. | Prague***L1. Photochemistry in Pharmaceutical Industry***8:30 Cvak L. | Opava***L2. Study of Interactions in API-Excipient Binary Systems Based upon Surface***8:55 Patera J., Školáková T., Zámotný P., Součková L. | Prague***L3. Problems with Polymorphism in Crystallization of Pharmaceutical Substances***9:20 Gabriel R. | Opava***L4. Modification of Silver Nanoparticles for Bioanalytical Applications***9:45 Khristunova Ye.<sup>1,2</sup>, Berek J.<sup>1</sup>, Kratochvíl B.<sup>1</sup>, Vyskocil V.<sup>1</sup>, Korotkova E.<sup>2</sup>, Dorozhko E.<sup>2</sup> | <sup>1</sup>Prague, <sup>2</sup>Tomsk, RU**10:10 – 10:30 Coffee break***10:30 – 12:10 PHARMACEUTICAL TECHNOLOGY***Chairman: Kratochvíl B. | Prague***L5. Coating of Magnetic Nanoparticles by Silica Layer and Further Functionalization for Isolation of DNA from PCR Products***10:30 Zolal A., Šuchmová K., Syslová K. | Prague***L6. High-Throughput Salt Screening of Active Pharmaceutical Compounds***10:55 Babor M.<sup>1</sup>, Čejka J.<sup>1</sup>, Spingler B.<sup>2</sup> | <sup>1</sup>Prague, <sup>2</sup>Zurich, CH***L7. Extended Release of Pentoxifylline – Dual Matrix Tablets Containing Polyvinyl Alcohol and Glyceryl Dibehenate***11:20 Komersová A.<sup>1</sup>, Lochař V.<sup>1</sup>, Slezáková B.<sup>1</sup>, Mužíková J.<sup>2</sup> | <sup>1</sup>Pardubice, <sup>2</sup>Hradec Králové***L8. Purification of Crude Methylene Blue as API***11:45 Juhás E.<sup>1</sup>, Hronec M.<sup>2</sup> | <sup>1</sup>Pezinok, <sup>2</sup>Bratislava, SK**12:10 – 13:40 Lunch*



**13:40 – 14:05 PHARMACEUTICAL TECHNOLOGY**

*Chairman: Kratochvíl B. | Prague*

**L9. New Technologies and Applications of Vibrational Spectroscopy in the Field of Pharmaceutical Analysis**

13:40 *Matoušek D., Neuman J. | Brno*

**14:05 – 15:20 BIOTECHNOLOGY AND BIOREFINERY**

*Chairman: Patáková P. | Prague*

**B11. Transport Biofuels and Their Perspectives**

14:05 *Kastanek F., Maleterova Y., Hanika J., Kastanek P., Solcova O. | Prague*

**B12. Conceptual Design of Lignocellulosic Bioethanol Biorefinery – A Rentability Study**

14:30 *Seghman P., Krátký L., Jirout T. | Prague*

**B13. Utilization of Agricultural Waste for Biobutanol Production**

14:55 *Branská B., Dvořáková M., Drahokoupil M., Paulová L., Melzoch K., Patáková P. | Prague*

15:20 – 15:40 *Coffee break*

**15:40 – 17:45 BIOTECHNOLOGY AND BIOREFINERY**

*Chairman: Patáková P. | Prague*

**B19. Study of Wine Region Identity**

15:40 *Fiala J.<sup>1</sup>, Kubizniaková P.<sup>1</sup>, Matoulková D.<sup>1</sup>, Liček J.<sup>2</sup>, Sochor J.<sup>2</sup> | <sup>1</sup>Praha, <sup>2</sup>Brno*

**B15. Waste Materials in the Microbial Production of Lactic Acid and Butanol**

16:05 *Drahokoupil M., Patakova P. | Prague*

**B16. Exploring Transcriptome of *Clostridium Beijerinckii* NRRL B-598 Using RNA-SEQ**

16:30 *Sedlar K.<sup>1</sup>, Kupkova K.<sup>1</sup>, Koscova P.<sup>1</sup>, Jureckova K.<sup>1</sup>, Provaznik I.<sup>1</sup>, Vasilkyvska M.<sup>2</sup>, Branska B.<sup>2</sup>, Kolek J.<sup>2</sup>, Raschmanova H.<sup>2</sup>, Patakova P.<sup>2</sup> | <sup>1</sup>Brno, <sup>2</sup>Prague*

**B17. Tolerance Levels to Substrates of Efflux Pumps in *Clostridium Beijerinckii* NRRL B-598 and Its Butanol Resistant Mutants**

16:55 *Vasylykivska M., Dobešová P., Patáková P. | Prague*

**B18. Use of Maldi-Tof Mass Spectrometry in Biotechnology Research**

17:20 *Kolek J.<sup>1,2</sup>, Drahokoupil M.<sup>1</sup>, Vasylykivska M.<sup>1</sup>, Patáková P.<sup>1</sup> | <sup>1</sup>Prague, <sup>2</sup>České Budějovice*

**8:30 – 10:10 WASTE PROCESSING, AIR AND WATER PROTECTION,  
TECHNOLOGIES FOR THE DECONTAMINATION OF SOILS***Chairman: Slezák M. | Pardubice***ZO1. Lithium Separation from Zinnwaldite; Economy and Environmental Issue***8:30 Wichterle K. | Ostrava***ZO2. Reduction of Wastes from the Production of Sulfenamides***8:55 Muntágová L., Wenchich Š., Kučera M., Jurkovič M. | Bratislava, SK***ZO3. Zpracování odpadů z těžby ropy metodou mechanicko-gravitační  
předúpravy a následná biodegradace***9:20 Raschman R., Najmanová P., Otevřel M. | Stehelčeves***ZO4. Recovery of Waste Semiconductors for CVD Precursors***9:45 Bumba J., Dytrych P., Fajgar R., Solcova O. | Prague**10:10 – 10:30 Coffee break***10:30 – 12:10 WASTE PROCESSING, AIR AND WATER PROTECTION,  
TECHNOLOGIES FOR THE DECONTAMINATION OF SOILS***Chairman: Slezák M. | Pardubice***ZO5. Racionalizace nakládání s použitými uhlíkatými sorpčními materiály***10:30 Šváb M.<sup>1</sup>, Švábová M.<sup>2</sup>, Štěpánová B.<sup>1</sup> | <sup>1</sup>Stehelčeves, <sup>2</sup>Prague***ZO6. Nakládání s odpadními farmaceutickými blistry z pohledu uhlíkové stopy***10:55 Šerešová M., Polák M., Kočí V. | Prague***ZO7. Cleaning of Coloured Waste Water Using Quaternary Phosphonium Salts***11:20 Weidlich T.<sup>1</sup>, Václavíková J.<sup>1</sup>, Kamenická B.<sup>1</sup>, Ivančák O.<sup>2</sup>, Schmutzerová L.<sup>2</sup> |  
<sup>1</sup>Pardubice, <sup>2</sup>Hradec Králové***ZO8. Comparison of Sorbents for Caesium Removal from Aqueous Enviroment***11:45 Foubíková A.<sup>1,2</sup>, Kůs P.<sup>1</sup>, Kotowski J.<sup>1</sup>, Skala M.<sup>1</sup>, Parschová H.<sup>2</sup>, Gáliková E.<sup>1</sup> |  
<sup>1</sup>Husinec-Řež, <sup>2</sup>Prague**12:10 – 13:40 Lunch*

**13:40 – 15:20 WASTE PROCESSING, AIR AND WATER PROTECTION,  
TECHNOLOGIES FOR THE DECONTAMINATION OF SOILS**

*Chairman: Slezák M. | Pardubice*

**ZO9. The Reduction of COD in Wastewater from Regeneration of ION Exchangers**

13:40 *Dušek L.<sup>1</sup>, Kovač D.<sup>2</sup> | <sup>1</sup>Pardubice, <sup>2</sup>Lovosice*

**ZO10. Total Low-Temperature Chemical Regeneration of Waste Pickling Liquor Using Microwave Heating**

14:05 *Váňa P.<sup>1</sup>, Mec K.<sup>1</sup>, Čmelík J.<sup>1,2</sup> | <sup>1</sup>Frýdek–Místek, <sup>2</sup>Ústí nad Labem*

**ZO11. Zachytávání iontů kovů z důlních vod**

14:30 *Slezák M., Palarčík J. | Pardubice*

**ZO12. Pilot Scale Testing of Electrocoagulation to Remove Cr<sup>6+</sup>, Ni and Zn from Contaminated Groundwater**

14:55 *Mašín P.<sup>1</sup>, Krystyník P.<sup>2</sup>, Klusoň P.<sup>2</sup>, Krušinová Z.<sup>2</sup> | <sup>1</sup>Stehelčevy, <sup>2</sup>Prague*

15:20 – 15:40 Coffee break

**15:40 – 16:55 WASTE PROCESSING, AIR AND WATER PROTECTION,  
TECHNOLOGIES FOR THE DECONTAMINATION OF SOILS**

*Chairman: Slezák M. | Pardubice*

**ZO13. K-Promoted Co-Mn-Al Mixed Oxides as Catalysts for Direct NO Decomposition**

15:40 *Bílková T.<sup>1</sup>, Pacultová K.<sup>1</sup>, Nogolová M.<sup>1</sup>, Fridrichová D.<sup>1</sup>, Karásková K.<sup>1</sup>, Martaus A.<sup>1</sup>, Buček P.<sup>1</sup>, Kaspera W.<sup>2</sup>, Kotarba A.<sup>2</sup>, Obalová L.<sup>1</sup> | <sup>1</sup>Ostrava, <sup>2</sup>Kraków, PL*

**ZO14. Thermophilic Population Usage for Hot Waste Air Treatment – Feasibility Assessment**

16:05 *Chalupa J., Halecký M. | Prague*

**ZO15. Life Cycle Assessment of Carbon Dioxide Capture Technology Based on Adsorption by Activated Carbon**

16:30 *Zakuciová K.<sup>1</sup>, Smutná J.<sup>2</sup>, Kočí V.<sup>1</sup>, Štefanica J.<sup>1</sup> | <sup>1</sup>Husinec-Řež, <sup>2</sup>Prague*

**16:55 – 17:45 POLYMERS, COMPOSITES**

*Chairman: Kalenda P. | Pardubice*

**PK1. Pertraction Using Chiral Membranes for Racemic Mixture Separation**

16:55 *Gaállová J., Stibor I., Cuřínová P., Izák P. | Prague*

**PK2. Selective Sorption Composites for Cesium Capture**

17:20 *Kůs P., Foubíková A., Skala M., Kotowski J. | Husinec-Řež*

**8:05 – 10:10 ECONOMY OF CHEMICAL INDUSTRY***Chairman: Baran D. | Prague***E1. Verification of Predictive Model Barpas in Chemical and Plastic Industry in the Slovak Republic***8:05 Baran D.<sup>1</sup>, Pastýr A.<sup>2</sup> | <sup>1</sup>Prague, Bratislava, SK, <sup>2</sup>Trnava, SK***E2. The Attractiveness of Chemistry Study and Employment in the Chemical Industry from the Point of View of the East Bohemian Public***8:30 Lostakova H., Jelinkova M., Petrik D. | Pardubice***E3. Management of Liquidity with a Chemical Company Specific***8:55 Kajanová J. | Bratislava, SK***E4. Objektivizace fuzzy množin pro kvantitativní analýzu rizik chemického procesu***9:20 Macák T. | Prague***E5. Maintenance and Environmental Safety***9:45 Strachotová D., Rančák J., Souček I. | Prague**10:10 – 10:30 Coffee break***10:30 – 12:10 ECONOMY OF CHEMICAL INDUSTRY***Chairman: Baran D. | Prague***E6. Relationship of Czech Consumers to Food Quality Labels***10:30 Kutnohorská O. | Prague***E7. Experiences with New Steam Source Integration into a Refinery's Steam Network***10:55 Variny M., Illés P., Hanus K., Šupa I., Mierka O. | Bratislava, SK***E8. Vývoj ekonomických charakteristik využívání výrobního faktoru práce na prahu čtvrté průmyslové revoluce v chemii a v dalších vybraných oborech průmyslu ČR***11:20 Klečka J. | Prague***E9. Product Portfolio Optimization***11:45 Zemanová P., Ottensschläger J., Vondruška F. | Prague**12:10 – 13:40 Lunch*

**13:40 – 15:20 ECONOMY OF CHEMICAL INDUSTRY**

*Chairman: Baran D. | Prague*

15:20 – 15:40 *Coffee break*

**15:40 – 16:55 CHEMICAL PROCESSES AND DEVICES**

*Chairman: Jirout T. | Prague*

**CHP1. Impact of Maintenance on Health and Safety Management at Work**

15:40 *Botek M., Strachotová D. | Prague*

**CHP2. Optimization of Viscose Homogenizing**

16:05 *Mrázek D.<sup>1</sup>, Kovač D.<sup>1</sup>, Jirout T.<sup>2</sup>, Krátký L.<sup>2</sup> | <sup>1</sup>Lovosice, <sup>2</sup>Prague*

**CHP3. Catalytic Process for Total Elimination of NO<sub>x</sub> for Technology of Nitric Acid Production**

16:30 *Sazama P.<sup>1</sup>, Bortnovskiy O.<sup>2</sup>, Fronk M.<sup>1</sup>, Pilař R.<sup>1</sup>, Sádovská G.<sup>1</sup>, Vondrová A.<sup>1</sup>, Svoboda K.<sup>2</sup>, Magula T.<sup>2</sup>, Kuželová P.<sup>2</sup>, Škoda A.<sup>1</sup> | <sup>1</sup>Prague, <sup>2</sup>Litvínov*

**16:55 – 17:20 SECURE MANAGEMENT PROCESSES, ACCIDENTS PREVENTION**

*Chairman: Babinec F. | Brno*

**BR1. Challenges in Hazard Identification Automation**

16:55 *Janošovský J., Danko M., Labovský J., Jelemenský Ľ. | Bratislava, SK*

**8:30 – 10:35 INORGANIC TECHNOLOGY***Chairmen: Híveš J., Dohnalová Ž. | Bratislava, SK, Pardubice***AT1. Composite Photocatalyst Based on TiO<sub>2</sub>-Active Carbon and Their Application in Air Treatment***8:30 Baudys M., Lhotka M., Krýsa J. | Prague***AT2. Textural Characteristics of Composite Photocatalyst Based on TiO<sub>2</sub>-Active Carbon***8:55 Lhotka M., Baudys M., Krýsa J. | Prague***AT3. Factors Affecting Infrared Reflectivity of Pigments***9:20 Dohnalová Ž., Šulcová P. | Pardubice***AT4. Absorption of Ammonia in Sulphur-Nitrogen Fertilizer***9:45 Danielik V., Jurišová J., Fellner P., Štefancová R., Kučera M. | Bratislava, SK***AT5. Utilization of Ammonium Sulphate Prepared from Flue Gas Desulphurization Gypsum***10:10 Lencsés M., Foltinovič T., Štefancová R., Lencsés L., Kučera M., Králik M. | Bratislava, SK**10:35 – 10:55 Coffee break***10:55 – 12:35 INORGANIC TECHNOLOGY***Chairmen: Híveš J., Dohnalová Ž. | Bratislava, SK, Pardubice***AT6. Utilization of Calcium Carbonate Prepared from Flue Gas Desulphurization Gypsum***10:55 Foltinovič T., Lencsés M., Štefancová R., Lencsés L., Kučera M., Králik M. | Bratislava, SK***AT7. Electrical Conductivity of Mixture NaF-KFAIF<sub>3</sub> MELTS***11:20 Kubiňáková E., Danielik V., Híveš J. | Bratislava, SK***AT8. The Effects of Grain Size and Tungsten on the Corrosion of Nanocrystalline Ni-W Alloys***11:45 Zemanová M., Šišová L., Dobročka E. | Bratislava, SK***AT9. Influence of Model Organic Air Pollutants on the PEM Type Fuel Cell Performance and Development of Suitable Air Treatment System***12:10 Mališ J., Šmíd M., Paidar M., Bouzek K. | Prague**12:35 Lunch*

**8:30 – 10:35 OIL, GAS, COAL, FUEL, BIOFUELS***Chairmen: Blažek J., Mikulec J. | Prague, Bratislava, SK***RP11. Hydrodeoxygenation Efficiency of Molybdenum Carbides, Nitrides, and Phosphides in Stearic Acid Conversion***8:30 Akhmetzyanova U.<sup>1</sup>, Sharkov N.<sup>1</sup>, Skuhrovcová L.<sup>1</sup>, Tišler Z.<sup>1</sup>, Kikhtyanin O.<sup>2</sup> |  
<sup>1</sup>Litvínov, <sup>2</sup>Kralupy nad Vltavou***RP12. Single-Stage Transesterification and Partial Hydrogenation of Camelina Oil on Biodiesel***8:55 Mikulec J., Slezáčková M., Tholtová A., Hornáček M., Hájeková E. | Bratislava, SK***RP13. The Effect of Growing Conditions on Camelina (*Camelina Sativa L.*) Oil Content – Sustainable Feedstock for Biofuels Production***9:20 Ševčík P.<sup>1</sup>, Joríková L.<sup>2</sup>, Hozlár P.<sup>3</sup>, Hájeková E.<sup>2</sup>, Ondrejčíková P.<sup>1</sup> | <sup>1</sup>Leopoldov,  
<sup>2</sup>Bratislava, <sup>3</sup>Detva, SK***RP14. The Influence of Temperature to the Hydrotreating of Rapeseed Oil and Its Co-Processing with Middle Distillates***9:45 Váchová V.<sup>1</sup>, Straka P.<sup>1</sup>, Palomo de la Fuente J.F.<sup>1,2</sup> | <sup>1</sup>Prague, <sup>2</sup>Zaragoza, ES***RP15. Power-to-Gas Process Application for Biomethane Production***10:10 Tenkrát D., Hlinčík T. | Prague**10:35 – 10:55 Coffee break***10:55 – 11:45 OIL, GAS, COAL, FUEL, BIOFUELS***Chairmen: Blažek J., Mikulec J. | Prague, Bratislava, SK***RP16. Liquid Adsorption Chromatography Optimization for Group Type Analysis of High Boiling Petroleum Fractions***10:55 Kroufek J., Šebor G. | Prague***RP17. Mixed Oxide Catalysts Derived from Hydrotalcite-Like Compounds for NO/NO<sub>x</sub> Storage and Reduction***11:20 Mikulec J., Hudec P., Hornáček M., Pokorná L. | Bratislava, SK**11:45 Lunch*

**8:30 – 10:35 BIOTECHNOLOGY AND BIOREFINERY***Chairman: Patáková P. | Prague***B14. Preparation of Chitosan-Based Films for Food Packing***8:30 Solcova O.<sup>1</sup>, Soukup K.<sup>1</sup>, Hanika J.<sup>1</sup>, Cruz G.J.F.<sup>2</sup> | <sup>1</sup>Prague, <sup>2</sup>Tumbes, Peru***B110. Isolation and Characterisation of Endophytes from *Vitis Vinifera****8:55 Gharwalová L., Skotková M., Lovecká P., Kolouchová I. | Prague***B111. Platinum Nanoparticles vs. Bacteria***9:20 Koukalová M., Čejková A., Slepíčka P. | Prague***B112. Stress Response to Biotechnological Production of Recombinant Proteins in *Pichia Pastoris****9:45 Raschanová H.<sup>1</sup>, Knejzlík Z.<sup>1</sup>, Borčinová M.<sup>1</sup>, Glieder A.<sup>2</sup>, Melzoch K.<sup>1</sup>, Kovar K.<sup>3</sup> | <sup>1</sup>Prague, <sup>2</sup>Graz, AU, <sup>3</sup>Wädenswil, CH***B113. Prevention of *Candida* Biofilm Formation on Ti6Al4V Alloy by Chitosan***10:10 Lokočová K., Masák J. | Prague**10:35 – 10:55 Coffee break***10:55 – 12:35 BIOTECHNOLOGY AND BIOREFINERY***Chairman: Patáková P. | Prague***B114. Effect of Pterostilbene in Combination with Antibiotics on Growth of *Staphylococcus Epidermidis****10:55 Kašparová P., Matátková O., Masák J. | Prague***B115. The Inhibition of *Pseudomonas Aeruginosa* Growth by Chitosan***11:20 Michailidu J., Čejková A. | Prague***B116. Fourier-Transformation Infrared Spectroscopy in Optimization of Red Yeast Lipid Production***11:45 Rapta M.<sup>1</sup>, Shapaval V.<sup>2</sup>, Kohler A.<sup>2</sup>, Zimmermann B.<sup>2</sup>, Byrtusová D.<sup>1</sup>, Sztokowski M.<sup>1</sup>, Márová I.<sup>1</sup> | <sup>1</sup>Brno, <sup>2</sup>Drøbakveien, NO***B117. Production of 2-Phenylethanol and Phenylacetic Acid in Silicone Rubber Membrane Hybrid System***12:10 Mihal'M., Červeňanský I., Markoš J. | Bratislava, SK**12:35 Lunch*