

**12:45–17:00 PLENARY SESSION**

*Chairs: Lederer J., Lubojacký J.*

**12:45–13:00 Opening**

*Assoc Prof. Ing. Jaromír Lederer, Ph.D., CSIC President  
Ing. Jaromír Lubojacký, MBA, President of the Program Committee*

**13:00–13:15 Viktor Ettel Award**

*Assoc Prof. Ing. Jaromír Lederer, Ph.D., CSIC President*

13:15–13:30

**1. Water: an ecological and acidic solvent for catalytic processes**

*Prof. Ing. Milan Hronec, DrSc., STU Bratislava (laureate of the Viktor Ettel Prize)*

13:30–13:55

**2. Development and implementation of dicyclopentadiene production in Litvínov**

*Prof. Ing. Tomáš Herink, Ph.D., ORLEN Unipetrol*

13:55–14:20

**3. Chemical industry transition pathway – new EU framework, Czech adaptation**

*Ing. Ivan Souček, Ph.D., Association of the Chemical Industry of the Czech Republic*

14:20–14:45

**4. News in EGD from the MIT perspective**

*Ing. Pavlína Kulhánková, Ministry of Industry and Trade of the Czech Republic*

**14:45–15:20 Coffee break**

15:20–15:45

**5. Decarbonisation of the chemical and steel industry from a process engineer's perspective**

*Prof. Ing. Kamil Wichterle, Ph.D., VŠB TU Ostrava*

15:45–16:10

**6. Strategic research agenda of CTP SusChem**

*Ing. Ladislav Novák, Ph.D., Ing. Martin Šilhan, Ph.D., MBA, Czech Technology Platform for Sustainable Chemistry*

16:10–16:35

**7. Sun and nanomaterials for CO<sub>2</sub>, H<sub>2</sub>O, N<sub>2</sub> utilization**

*Prof. Ing. Václav Švorčík, DrSc., UCT in Prague*

16:35–17:00

**8. Polyhydroxyalkanoates – renewable bacterial polymers with multiple biological functions and potential applications**

*Prof. Ing. Stanislav Obruča, Ph.D., Faculty of Chemistry, Brno University of Technology*

**8:05–18:10 MATERIALS ENGINEERING**

*Chair: Novák P., Prague*

8:05–8:30

**MI-1 Microstructure of aluminum single crystal after complex severe plastic deformation**

*Molnárová O., Školáková A., Habr S., Čapek J., Málek P., Lejček P., Prague*

8:30–8:55

**MI-2 Non-conventional applications of intermetallics**

*Novák P.<sup>1</sup>, Skotnicová K.<sup>2</sup>, Szurman I.<sup>2</sup>, Borkovcová K.<sup>1</sup>, Růžička J.<sup>1</sup>, Tsepeleva A.<sup>1</sup>, Michalcová A.<sup>1</sup>, Průša F.<sup>1</sup>, <sup>1</sup>Prague, <sup>2</sup>Ostrava-Poruba*

8:55–9:20

**MI-3 The influence of alloying elements distribution on degradation behaviour of tin-rich materials**

*Michalcová A.<sup>1</sup>, Msallamová Š.<sup>1</sup>, Friák M.<sup>2</sup>, <sup>1</sup>Prague, <sup>2</sup>Brno*

9:20–9:45

**MI-4 Easily tunable properties of high-entropy Cantor alloy by changing its composition**

*Průša F., Kratochvíl P., Thürlová H., Strakošová A., Karlík M., Čech J., Prague*

9:45–10:10

**MI-5 Microstructure and properties of the refractory high-entropy alloys**

*Thürlová H., Průša F., Sovadina M., Kratochvíl P., Ekrť O., Prague*

**10:10–10:30 Coffee break**

10:30–10:55

**MI-6 Influence of Mn and Al on advanced high-entropy alloys prepared by mechanical alloying**

*Kratochvíl P., Thürlová H., Průša F., Prague*

10:55–11:20

**MI-7 Micro and nanostructuring of amorphous chalcogenide thin films**

*Vlcek M., Palka K., Slang S., Jancalek J., Kurka M., Jemelka J., Pardubice*

11:20–11:45

**MI-8 Comprehensive characterization of carbon materials as possible catalytic supports using XRD, HR-TEM, SEM, N<sub>2</sub> adsorption and XPS analysis in relation to their thermal stability in air**

*Sádovská G.<sup>1,2</sup>, Honcová P.<sup>2</sup>, Morávková J.<sup>1</sup>, Jirka I.<sup>1</sup>, Vorokhta M.<sup>1</sup>, Pilař R.<sup>1</sup>, Rathouský J.<sup>1</sup>, Kaucký D.<sup>1</sup>, Mikysková E.<sup>1</sup>, Sazama P.<sup>1</sup>, <sup>1</sup>Prague, <sup>2</sup>Pardubice*

11:45–12:10

**MI-9 Investigation of the structure of tin alloys in historical organ pipes by transmission electron microscopy**

*Kačenka Z., Michalcová A., Msallamová Š., Prague*

**8:05–18:10 MATERIALS ENGINEERING**

*Chair: Novák P., Prague*

**12:10–13:40 Lunch**

13:40–14:05

**MI-10 Economically available magnesium alloys with high resistance to ignition**

*Hosová K., Kubásek J., Vojtěch D., Prague*

14:05–14:30

**MI-11 Zinc materials prepared by powder metallurgy**

*Nečas D., Boukalová A., Pokorný J., Dvorský D., Kubásek J., Prague*

14:30–14:55

**MI-12 Hydrogen embrittlement of 3D printed high strength 1.2709 steel**

*Strakosova A., Roudnická M., Ekrt O., Vojtěch D., Michalcová A., Prague*

14:55–15:20

**MI-13 Technology of DED as new repair process of high pressure die casting**

*Borkovcova K.<sup>1,2</sup>, Novak P.<sup>1</sup>, Zajic J.<sup>2</sup>, <sup>1</sup>Prague, <sup>2</sup>Mladá Boleslav*

**15:20–15:40 Coffee break**

15:40–16:05

**MI-14 3D printed Ti-Ni alloys prepared by selective laser melting for solid-state cooling technologies**

*Straková M.<sup>1,2</sup>, Pilch J.<sup>1</sup>, O'Toole K.<sup>1</sup>, Brabazon D.<sup>1</sup>, Kubásek J.<sup>2</sup>, Vojtěch D.<sup>2</sup>, <sup>1</sup>Dublin (Ireland), <sup>2</sup>Prague*

16:05–16:30

**MI-15 Vintage Harley-Davidson motorcycle valve steel structure study**

*Růžička J.<sup>1,2</sup>, Novák P.<sup>1</sup>, Vogt J.-B.<sup>2</sup>, Bouquerel J.<sup>2</sup>, <sup>1</sup>Prague, <sup>2</sup>Lille (France)*

16:30–16:55

**MI-16 Reduced deep-sea nodules as an additive for aluminum alloys**

*Tsepeleva A., Novák P., Vlášek J., Simoniakin A., Prague*

16:55–17:20

**MI-17 Resistometric method for corrosion monitoring**

*Reiser M., Havíř Š.S., Kouřil M., Prague*

17:20–17:45

**MI-18 Surface treated titanium alloy for proton exchange membrane fuel cells bipolar plates**

*Ludvík J., Hala M., Kouřil M., Fojt J., Prague*

17:45–18:10

**MI-19 Preparation of titanium aluminides-based coatings using powder metallurgy**

*Teichmanová A., Michalcová A., Balejová V., Prague*

**8:05–15:20 BIOTECHNOLOGY AND BIOREFINERY**

*Chairs: Patáková P., Branská B., Prague*

8:05–8:30

**BI-1 The annotation and functional description of non-model bacteria for bio-based engineering and industry**

*Sedlář K., Munich (Germany)*

8:30–8:55

**BI-2 Genus *Aneurinibacillus* – a unique bacterium among thermophilic polyhydroxyalkanoate producers**

*Pernicová I., Kouřilová X., Řeháková V., Dyačilev D., Marková L., Sedlář K., Musilová J., Sedláček P., Obruča S., Brno*

8:55–9:20

**BI-3 Usefulness of thermophilic bacteria as biopolymer producers**

*Kouřilová X., Pernicová I., Musilová J., Sedlář K., Obruča S., Brno*

9:20–9:45

**BI-4 Robolector XL® – future of optimization and automatization of microfermentative processes for accelerated scale-up and streamlined research applications**

*Kašparová P., Šebo P., Prague*

9:45–10:10

**BI-5 Characterization of probiotic bacterium *Clostridium butyricum***

*Basarová D., Kaštánek P., Patáková P., Prague*

**10:10–10:30 Coffee break**

10:30–10:55

**BI-6 Innovative approaches for reusing animal by-products**

*Stiborová H., Kaštánek P., Száková J., Branská B., Patáková P., Kliková K., Demnerová K., Prague*

10:55–11:20

**BI-7 The potential of *Monascus* spp extracts as photosensitizers in antimicrobial photodynamic therapy**

*Husáková M.<sup>1</sup>, Orlandi V.<sup>2</sup>, Patáková P.<sup>1</sup>, <sup>1</sup>Prague, <sup>2</sup>Varese (Italy)*

11:20–11:45

**BI-8 Evaluation of packaging materials for biofilters: prediction and verification of biofilm development**

*Mach J.<sup>1</sup>, Halecký M.<sup>1</sup>, Pohořelý M.<sup>1</sup>, Zápotocký L.<sup>2</sup>, <sup>1</sup>Prague, <sup>2</sup>Stehelčevy*

11:45–12:10

**BI-9 Silver nanoparticles synthesized using viticultural waste – characterization and antimicrobial activity**

*Miškovská A., Mařátková O., Čejková A., Prague*

**8:05–15:20 BIOTECHNOLOGY AND BIOREFINERY**

*Chairs: Patáková P., Branská B., Prague*

**12:10–13:40 Lunch**

13:40–14:05

**BI-10 Antimicrobial activity of lignin-based nanosystems**

*Maršik D.<sup>1</sup>, Thoresen P.P.<sup>2</sup>, Masák J.<sup>1</sup>, Rova U.<sup>2</sup>, Christakopoulos P.<sup>2</sup>, Matsakas L.<sup>2</sup>  
<sup>1</sup>Prague, <sup>2</sup>Luleå (Sweden)*

14:05–14:30

**BI-11 Non-thermal plasma as a tool for fungal biofilms elimination**

*Kulišová M., Jarošová I., Prague*

14:30–14:55

**BI-12 Thermal radon springs as a source of extremophilic microorganisms**

*Timkina E., Jarošová I., Matátková O., Prague*

14:55–15:20

**BI-13 Epoxidation of esters from vegetable oils – reaction conditions and statistical evaluation**

*Hájek M., Kocián D., Douda M., Pardubice*

**15:20–15:40 Coffee break**

**15:40–16:55 SYNTHESIS AND PRODUCTION OF DRUGS**

*Chair: Kratochvíl B., Prague*

15:40–16:05

**SP-1 Antibody-drug conjugates, the combination of large and small therapeutic molecules in oncology. Electron diffraction**

*Kratochvíl B., Benešová E., Prague*

16:05–16:30

**SP-2 Roll compaction process development and transfer aided by compaction analyzer**

*Petr J., Stasiak P., Marinko N., Krpelan T., Zámostný P., Prague*

16:30–16:55

**SP-3 Rheological properties of pharmaceutical mixtures for orally disintegrating tablets and their effect on final tablet properties**

*Macho O., Pastorová N., Guštafík A., Gabrišová L., Bratislava*

8:05–10:55

**DECARBONISATION AND THE ECONOMICAL ASPECTS OF THE CHEMICAL INDUSTRY TRANSFORMATION***Chair: Souček I., Prague*

8:05–8:20

**D-1 Is green hydrogen competitive?***Hamza B., Souček I., Prague*

8:20–8:30

**D-2 CCU solutions vs. additional energy requirements***Šot O., Souček I., Prague*

8:30–8:55

**D-3 Optimizing steam power in industry– decarbonization opportunity***Variny M., Janošovský J., Červeňanský J., Furda P., Čerňanská B., Hucík M., Kállay D., Bratislava*

8:55–9:20

**D-4 Decarbonisation processes from the perspective of CO<sub>2</sub> capture and utilisation***Gál L., Prague*

9:20–9:45

**D-5 Better safe than sorry – are we rushing hydrogen?***Janošovský J., Kraviarová D., Detko J.S., Variny M., Bratislava*

9:45–10:10

**D-6 The logistics in the chemical industry***Košťálek J., Kořátková Stránská P., Prague***10:10–10:30 Coffee break**

10:30–10:55

**D-7 Possibilities of implementation of circular economy principles in SMEs of the chemical industry in the Czech Republic***Benda A., Munzarová S., Pardubice*

**10:55–14:55 ECONOMICS OF THE CHEMICAL INDUSTRY**

*Chair: Vávra J., Pardubice*

10:55–11:20

**E-1 Evaluation of the benefits of the implementation of CSR concept in enterprises**

*Vlčková V., Horáková M., Pardubice*

11:20–11:45

**E-2 Ways to improve the collection and recycling of separate waste in the selected region – case study**

*Branská L., Paták M., Dostálová A., Pecinová Z., Pardubice*

11:45–12:10

**E-3 Indicators of sustainable production in chemical enterprises**

*Vávra J., Vrbická T., Pardubice*

**12:10–13:40 Lunch**

13:40–14:05

**E-4 Sustainable human resources management**

*Botek M., Charvátová D., Prague*

14:05–14:30

**E-5 Online reputation management in companies of the chemical industry in the Czech Republic**

*Poppelová E., Jelínková M., Hradec Králové*

14:30–14:55

**E-6 Circular economy in enterprises of the Czech chemical industry**

*Kutnohorská O., Strachotová D., Prague*

**15:20–15:40 Coffee break**



**15:40–18:10 CHEMICAL PROCESSES AND DEVICES**

*Chair: Jirout T., Prague*

15:40–16:05

**CP-1 LRI ENREGAT... from fundamental to applied research... continues in 2023–2026**

*Grycová B., Obalová L., Ostrava-Poruba*

16:05–16:30

**CP-2 New technologies of infrared spectrometers dedicated for process monitoring**

*Matoušek D., Novotný M., Brno*

16:30–16:55

**CP-3 Experiential education in process engineering**

*Bělohav V.<sup>1</sup>, Herink T.<sup>2</sup>, Jirout T.<sup>1</sup>, Bělohav Z.<sup>1</sup>, <sup>1</sup>Prague, <sup>2</sup>Litvínov*

16:55–17:20

**CP-4 Flue gas condenser of biomass-fired heating plant**

*Hlaváček O., Lodiňánek P., Prague*

17:20–17:45

**CP-5 Mettler-Toledo sets up new technology levels to chrySTALLIZATION studies**

*Leppänen K.K., Schwerzenbach (Switzerland)*

17:45–18:10

**CP-6 Exploring novel connections between Raman spectroscopy, microwave reactors, and rheometers**

*Rapta M., Anton Paar Czech Republic*

**8:30–12:10 ZELENÁ DOHODA RECYKLACE PLASTŮ**

*Chair: Reiss J., Prague*

8:30–8:55

**Zelená a digitální transformace z pohledu ČTP Plasty**

*Reiss J., ČTP Plasty*

8:55–9:20

**Chemická recyklace plastů**

*Souček I., Reiss J., SCHP ČR*

9:20–9:45

**Evropská regulace a recyklace plastů**

*Kulháňková P., MPO*

9:45–10:10

**Chemická recyklace: cesta k vyšší míře materiálového využití odpadních plastů**

*Snow J., Brablíková M., ORLEN UniCRE*

*Suchopa R., ORLEN Unipetrol*

**10:10–10:30 Coffee break**

10:30–10:55

**Využití produktů termochemické recyklace v chemickém průmyslu**

*Bačiak M., ENRESS*

10:55–11:20

**Využití odpadních plastů**

*Hausner D., Plastikářský klastr*

11:20–11:45

**OPTIMUS – efektivní recyklace plastů**

*Wipplinger E., Plastoil*

11:45–12:10

**Chemická recyklace textilu na bázi polyesterových vláken a bavlny**

*Kuráň P., Oravová L., Midula P., Krystyník P., Adamec S., Bůžek D., UJEP*

**12:10–13:40 Lunch**

**13:40–17:45      POLYMERS, COMPOSITES**

*Chair: Kuta A., Prague*

13:40–14:05

**PC–1      The influence of zinc oxide and zinc stearate on vulcanization**

*Čadek D., Manligová E., Kuta A., Prague*

14:05–14:30

**PC–2      Production and application of ground tyre rubber: a way to increase the circularity of rubber materials**

*Hrdlička Z.<sup>1</sup>, Brejcha J.<sup>1,2</sup>, <sup>1</sup>Prague, <sup>2</sup>Ústí nad Labem*

14:30–14:55

**PC–3      Enhancing properties of thermoplastic material: investigating natural rubber/thermoplastic starch composites using multiple techniques**

*Cai Z., Čadek D., Kuta A., Kadeřábková A., Jindrová M., Prague*

14:55–15:20

**PC–4      Polyolefin structure modification: from basic materials to polymer specialities**

*Kotyzá O., Sokolohorskyj A., Merna J., Prague*

15:40–16:05

**PC–5      Processing of PTFE-PEEK polymer blend in air atmosphere and its final properties**

*Melichar J., Foitlová A., Mészáros M., Steiner V., Čelákovice*

16:05–16:30

**PC–6      Chiral composite membrane for enantiomer separation**

*Izak P.<sup>1</sup>, Yalcinkaya F.<sup>2</sup>, Kohout M.<sup>1</sup>, <sup>1</sup>Prague, <sup>2</sup>Liberec*

16:30–16:55

**PC–7      CO<sub>2</sub> separation using polyimide-based membranes**

*Iablochkin K., Melzerová J., Fila V., Bernauer M., Prague*

16:55–17:20

**PC–8      Volatile organic compounds released from PVC wire coating**

*Uříčář J., Pilňaj D., Kalousková R., Veselý P., Brožek J., Prague*

17:20–17:45

**PC–9      Surface and biological properties of polyetheretherketone with silver-doped domains as advanced biomaterial**

*Pryjmaková J.<sup>1</sup>, Vokatá B.<sup>1</sup>, Šlouf M.<sup>1</sup>, Hubáček T.<sup>2</sup>, Siegel J.<sup>1</sup>, <sup>1</sup>Prague, <sup>2</sup>České Budějovice*

**8:05–12:10 INORGANIC TECHNOLOGY**

*Chair: Lhotka M., Fila V., Prague*

8:05–8:30

**IT-1 Analysis of selected properties of hydroxyapatite powder for the production of granulate used for filament for 3D printing**

*Peciar P., Jezsó K., Guštafik A., Úradníček J., Veteška P., Bača L., Thurzo A., Janek M., Bratislava*

8:30–8:55

**IT-2 Mineral fertilizer with natural anhydrite – connection of laboratory and production practice**

*Štefancová R., Herencsárová G., Kučera M., Bratislava*

8:55–9:20

**IT-3 The stability monitoring of solid ferrates(VI)**

*Benköová M., Mališová E., Híveš J., Bratislava*

9:20–9:45

**IT-4 Intrinsic nature and active surface sites affecting the effectivity of Ni-Fe-W catalyst**

*Záchenská J., Mičiaková J., Lokaj J., Zemanová M., Bratislava*

9:45–10:10

**IT-5 Effect of the membrane and catalyst binder on the performance of membrane-electrode assembly in alkaline water electrolysis**

*Plevová M., Hnát J., Žitka J., Bouzek K., Prague*

10:10–10:35

**IT-6 2D and 3D mathematical model of the alkaline fuel cell stack – design optimization and parasitic current analysis**

*Zejmon M., Kodým R., Paidar M., Bouzek K., Prague*

**10:10–10:30 Coffee break**

10:55–11:20

**IT-7 Alkaline water electrolysis for energy conversion – impact of the separator type on the cell operational conditions**

*Denk K., Kodým R., Hnát J., Paidar M., Bouzek K., Prague*

11:20–11:45

**IT-8 Modelling hydrogen production from renewable sources of energy using alkaline water electrolysis**

*Denk K., Paidar M., Hnát J., Bouzek K., Prague*

11:45–12:10

**IT-9 3D printed flow cell for the electrochemical determination of antibiotics**

*Dakošová O.<sup>1</sup>, Kolivoška V.<sup>2</sup>, Gál M.<sup>1</sup>, <sup>1</sup>Bratislava, <sup>2</sup>Prague*

**8:05–10:35 ORGANIC TECHNOLOGY**

Chair: Zámostný P., Prague

8:05–8:30

**OT-1 Study of the properties of the cobalt catalyst used for the hydrogenation of aniline to cyclohexylamine**

Valeš R., Krupka J., Dvořák B., Prague

8:30–8:55

**OT-2 Preparation of esters of tertiary alcohols**

Kotova M., Šnebergerová A., Vargina T., Prague

8:55–9:20

**OT-3 New anti-corrosion colorants**

Hrdina R., Kalendová A., Burgert L., Krejčová A., Fouzy A., Michaličková L., Kohl M., Bouška M., Raycha Y., Pardubice

9:20–9:45

**OT-4 Organic electrolytes for flow batteries**

Kubáč L.<sup>1</sup>, Akrman J.<sup>1</sup>, Černý J.<sup>1</sup>, Mazúr P.<sup>2</sup>, <sup>1</sup>Rybitví, <sup>2</sup>Prague

9:45–10:10

**OT-5 Production of 4-Amino-4H-1,2,4-triazole and its application as the nitrification inhibitor**

Kelemen P., Majerníková J., Tokár Z., Kučera M., Bratislava

10:10–10:35

**OT-6 Heterogeneous catalysis of ethanol transformation by Li-Al mixed oxides doped by transition metal**

Malina J., Hájek M., Frolich K., Pardubice

**10:10–10:30 Coffee break**

**8:05–12:10 OIL, PETROCHEMICALS, BIOFUELS**

*Chair: Kittel H., Prague*

8:05–8:30

**OP-1 Key trends and strategies in the oil and petrochemical industry**

*Kittel H., Prague*

8:30–8:55

**OP-2 Development of fuel and biofuel technologies at PKN ORLEN: Co-BIO and GASSTO projects**

*Majoch A., Warszawa (Poland)*

8:55–9:20

**OP-3 Zero emission refinery: reality or dream?**

*Souček I., Kittel H., Minařík Z., Prague*

9:20–9:45

**OP-4 Potential for use of side streams in the production of dicyclopentadiene**

*Waňousová S.<sup>1</sup>, Herink T.<sup>1</sup>, Perrot A.<sup>2</sup>, Hyršl J.<sup>2</sup>, Bandžuch J.<sup>2</sup>, Černý R.<sup>1</sup>, Kunrtová D.<sup>1</sup>  
<sup>1</sup>Litvínov, <sup>2</sup>Pardubice*

9:45–10:10

**OP-5 High temperature removal of halogenated compounds from pyrolysis of waste plastic on solid sorbents**

*Šrámek V., Skoblia S., Pohořelý M., Prague*

**10:10–10:30 Coffee break**

10:10–10:35

**OP-6 Coffee waste as a source of oil for biodiesel preparation by heterogeneous transesterification over La-Ni/MgAl mixed oxides**

*Mališová M., Hornáček M., Peller A., Bratislava*

10:55–11:20

**OP-7 Effect of carbon chain length and shape of hydrocarbons molecules on catalytic cracking and aromatization over HZSM-5 catalysts during catalytic pyrolysis of polyolefins**

*Lestinsky P.<sup>1</sup>, Klemencova K.<sup>1</sup>, Grycova B.<sup>1</sup>, Inayat A.<sup>2</sup>, Schwieger W.<sup>2</sup>, Inayat A.<sup>1</sup>  
<sup>1</sup>Ostrava, <sup>2</sup>Erlangen Nuremberg (Germany)*

11:20–11:45

**OP-8 Sludge formation during long-term storage of various types of crude oil**

*Lyko Vachková E., Váchová V., Maxa D., Straka P., Prague*

11:45–12:10

**OP-9 Potential of mixed oxides in valorization of ethanol to higher add value chemicals**

*Kocík J.<sup>1</sup>, Mück J.<sup>2</sup>, Tišler Z.<sup>1</sup>, <sup>1</sup>Litvínov, <sup>2</sup>Pardubice*

**8:05–11:20 CIRCULATING ECONOMY**

*Chair: Weidlich T., Pardubice*

8:05–8:30

**CE-1 Treatment of wastewater contaminated with halogenated aromatic chemicals, the circular economy approach**

*Weidlich T.<sup>1</sup>, Borovská L.<sup>1</sup>, Kamenická B.<sup>1</sup>, Malý J.<sup>1</sup>, Maňásková K.<sup>1</sup>, Hegedüs M.<sup>2</sup>  
<sup>1</sup>Pardubice, <sup>2</sup>Blansko*

8:30–8:55

**CE-2 Zinc ash waste transformation to fertilizers – suitable form for plants**

*Foltinovič T., Štefancová R., Kučera M., Bratislava*

8:55–9:20

**CE-3 The waste recycling**

*Koštálek J., Vlachý J., Prague*

9:20–9:45

**CE-4 Removal of chlorine during pyrolysis of plastic waste**

*Snow J., Lederer J., Kuráň P., Ústí nad Labem*

9:45–10:10

**CE-5 A process for recycling mixed textiles containing pes by solvent extraction of polymers**

*Skuhrovcová L., Lederer J., Ústí nad Labem*

10:10–10:30

**CE-6 Chemical recycling of a mixture of waste LDPE and PP into an aviation fuel component**

*Ondrovič T., Mikulec J., Peller A., Hájeková E., Bratislava*

10:55–11:20

**CE-7 Chemical recycling of waste polyolefins via thermo-catalytic pyrolysis over HZSM-5 zeolites: a description for different feedstocks and reactor configurations**

*Inayat A.<sup>1</sup>, Klemencova K.<sup>1</sup>, Inayat A.<sup>2</sup>, Schwieger W.<sup>2</sup>, Lestinsky P.<sup>1</sup>  
<sup>1</sup>Ostrava, <sup>2</sup>Erlangen Nuremberg (Germany)*