

LIST OF POSTERS

MONDAY, April 10, 2017

FOYER + AURELIUS HALL

18:00 – 22:00 POSTER SESSION, WELCOME DRINK

Chairman: Hanika J. | Praha

We ask the authors to be present at their posters at least from 19:00 to 20:00.

The Best Poster Prize will be awarded in Aurelius Hall at 21:00.

INORGANIC TECHNOLOGY

- P1. Electrolytes for Aluminium Zirconium Alloys Production**
Kubiňáková E., Híveš J., Danielik V. | Bratislava
- P2. Synthesis and Possibilities of Utilization of Orthoferrites with Praseodymium**
Luxová J., Šulcová P. | Pardubice
- P3. The Effect of Mineralizers on Pigmentary Properties of Cassiterite Pigments Doped by Manganese Ions**
Karolová L., Dohnalová Ž. | Pardubice
- P4. The Mixed Oxide in Bi_2O_3 -ZnO-CeO₂ System Prepared by Solid State Reaction**
Těšitelová K., Šulcová P. | Pardubice
- P5. The Various Methods of Preparation of the Perovskite Compound SrCeO₃ by Liquid Methods**
Těšitelová K., Burkovičová A., Hablovičová B., Dohnalová Ž., Šulcová P. | Pardubice
- P6. Synthesis and Properties of Superabsorbent Copolymer of Acrylic Acid, Acrylamide and Konjac Glucomannan Polysaccharide**
Hermann P., Svoboda L., Bělina P. | Pardubice
- P7. Mechanical and Structural Properties of Metakaolin-Based Geopolmyer Mortar in Outdoor Environment**
Matulová L., Steinerová M. | Prague

SECURE MANAGEMENT PROCESSES, ACCIDENTS PREVENTION

- P8. Cerium Dioxide Nanoparticles – Ecological Risk Assessment**
Kobetičová K. | Prague
- P9. Inherently Safer Design of a Novel Industrial Scale Reactor for Alkylpyridine Derivatives Production**
Janošovský J., Kačmářová A., Danko M., Labovský J., Jelemenský L. | Bratislava

BIOTECHNOLOGY AND BIOREFINERY

- P10. Production Polyhydroxyalkanoates Using Hydrolysates of Spruce Sawdust**
Kučera D., Benešová P., Ladický P., Obruča S. | Brno
- P11. Use of Bacterial Autofluorescence as a Marker in Biotechnological Processes**
Müllerová L., Mravec F., Bílková K., Obruča S. | Brno
- P12. Food Additives – Yes or No?**
Morávková L., Matějková M., Petrusová Z., Šolcová O. | Prague
- P13. Biodegradation of Chicken Feather by Polyhydroxyalkanoates Accumulating Bacteria**
Pernicová I.¹, Šuráňová Z.¹, Innemanova P.^{2,3}, Obruča S.¹ | ¹Brno, ²Stehelčevy, ³Prague
- P14. Extraction of Antioxidants from Fresh Wine Grapes Marc**
Rouskova M., Jiru M., Krmela A., Hanika J., Solcova O. | Prague
- P15. Chicken Feather Hydrolysate as the Potential Complex Nitrogen Source for PHA Production**
Benešová P., Kučera D., Obruča S., Márová I. | Brno
- P16. Fatty Acids Profile Analysis in Fresh Suspension of *Japonochytrium Sp.***
Rouskova M., Maleterova Y., Hurkova K., Kastanek P., Hanika J., Solcova O. | Prague
- P17. Tertiary Structure Prediction of Potential Efflux-Pump Protein in *Clostridium Beijerinckii* NRRL B-598**
Koscova P.¹, Sedlar K.¹, Kupkova K.¹, Kolek J.², Patakova P.², Provaznik I.¹ | ¹Brno, ²Prague
- P18. Effect of Non-Thermal Plasma on *Pseudomonas Aeruginosa* Quorum Sensing System**
Paldrychová M., Scholtz V., Kvasničková E., Masák J. | Prague

- P19. Effect of Amphotericin B and Chitosan on *Candida* Spp. Biofilm Formation**
Kvasničková E., Paldrychová M., Lokočová K., Masák J. | Prague
- P20. Antibiotická rezistence *Pseudomonas Aeruginosa***
Lokočová K., Masák J. | Praha
- P21. Vliv nanočástic platiny a palladia na nárůst bakterie *Pseudomonas Aeruginosa***
Koukalová M., Čejková A. | Praha
- P22. Stanovení stilbenoidů ve vzorcích moštu, vína a vinařském odpadu**
Gharwalová L., Koukalová M., Čejková A., Kolouchová I., Masák J. | Praha
- P23. Comparison of Metabolic Activity and Potential Uses of Microalgae and Yeast in Biotechnology Production of Lipid Substances**
Szotkowski M., Mikheichyk N., Byrtusová D., Rapta M., Hároniková A., Márová I. | Brno
- P24. Optimization of Cultivation of *Haematococcus Pluvialis* Strains and Astaxanthin Production Under Stress Conditions**
Byrtusová D.¹, Szotkowski M.¹, Kočí R.², Márová I.¹ | ¹Brno, ²Drásov
- P25. Application of Selected Fluorescence Techniques for Analysis of Metabolites Produced by Yeasts Using Waste Substrates**
Mikheichyk N., Szotkowski M., Byrtusová D., Rapta M., Hároniková A., Márová I. | Brno
- P26. Batch Drying of Sliced Tomatoes at Specific Ambient Conditions**
Royen M.J.^{1,2}, Noori A.W.^{1,2}, Haydary J.¹ | ¹Bratislava, ²Kabul (Afghanistan)
- P27. An Energy Independent Solar Drying System for Food Products Drying**
Noori A. W.^{1,2}, Royen M. J.^{1,2}, Haydary J.¹ | ¹Bratislava, ²Kabul (Afghanistan)

ECONOMY OF CHEMICAL INDUSTRY

- P28. Czech Public Attitudes to the Chemical Industry**
Lastakova H., Jelinkova M., Ostransky F. | Pardubice
- P29. Application of Project Management Methods Usable in the Implementation Phase from the Perspective of Selected Chemical Companies**
Kostalova J., Tetrevova L. | Pardubice

- P30. Corporate Philanthropy Activities and Their Communication by Czech Chemical Companies**
Tetrevova L. | Pardubice
- P31. The Demand Forecasting Process in Czech Chemical Companies**
Paták M., Branská L., Pecinová Z., Kvochová I. | Pardubice
- P32. CSR Activities of Chemical Company – a Case Study from Plastic Industry**
Vavra J., Bednarikova M., Munzarova S., Prochazkova K. | Pardubice
- P33. Use of Ecodesign Principles in Chemical Product Innovations**
Munzarová S., Vávra J., Bednaříková M. | Pardubice
- P34. The Full Factorial Design Case Studies from the Ammunition Performance Optimization**
Jadrna M., Macak T. | Prague
- P35. Consumer Chemicals Buying Process and Ways to Improve It**
Branská L., Pecinová Z., Paták M., Horecká K. | Pardubice

MATERIAL ENGINEERING

- P36. Mixed Alkali Effect in Lithium-Sodium Phosphate Glasses Modified with Tungsten Oxide**
Kalenda P.¹, Koudelka L.¹, Mošner P.¹, Nikolić J.², Mogoš-Milanković A.² | ¹Pardubice, ²Zagreb (Croatia)
- P37. Printed Visible Leak Detector of Low Oxygen Atmosphere**
Šabata S.¹, Kuncová G.¹, Obr T.² | ¹Prague, ²Svárov
- P38. Linear Gratings in Chalcogenide Glass Thin Films Prepared via Hot Embossing**
Buzek J.¹, Schroeter S.², Palka K.^{1,3}, Vlcek M.³ | ¹Pardubice, ²Jena (Germany), ³Pardubice
- P39. Study of Cation and Anion Doping of Polycrystalline SnS on Its Thermoelectric Properties – First Hint**
Čermák P., Plecháček T., Beneš L., Drašar Č. | Pardubice
- P40. Popis korozního chování biodegradovatelné slitiny Zn-1.5Mg-0.5Ca**
Pospíšilová I., Msallamová Š., Soukupová V., Vojtěch D. | Praha

- P41. Synthesis of New Dipole-Type Molecules as Materials for Two-Photon Microscopy Bioimaging**
Pauk K.¹, Imramovský A.¹, Vala, M.², Luňák, S.² | ¹Pardubice, ²Brno
- P42. Vliv rychlosti ohřevu na vznik intermetalických fází v systému Ti-Al**
Školáková A., Salvetr P., Novák P. | Praha
- P43. Structural Investigation of Iron Zinc-Metaphosphate Glasses**
Hejda P., Holubová J., Černošek Z., Schwarz J., Černošková E. | Pardubice
- P44. Nanostructured ITO Layers for QCM Gas Sensors**
Seidl J. | Prague
- P45. Vliv technologie zpracování na vlastnosti slitin Ni-Ti-X**
Salvetr P., Školáková A., Novák P. | Praha
- P46. Study on Thermoelectric Properties of Polycrystalline SnSe Doped with As**
Šraitrová K., Kucek V., Ruleová P., Plecháček T., Drašar Č. | Pardubice
- P47. Vliv desinfekčních prostředků na korozní rychlost olověných bul**
Msallamová Š., Kouřil M., Popova K., Pecenová Z., Drábková K. | Praha
- P48. Structure and Mechanical Properties of High-Strength Metals Prepared by Powder Metallurgy**
Marek I., Vojtěch D., Michalcová A., Kubatík T. F. | Prague
- P49. Preparation of Magnetic Nanoparticles for Isolation of DNA from PCR Products**
Zolal A., Štika M., Syslová K. | Prague
- P50. Phase Engineering in Tantalum Sulfide and Its Implications for Electrocatalysis**
Luxa J., Libánská A., Mazánek V., Sofer Z. | Prague
- P51. Fluorographene Modified by Grignard Reagents**
Libánská A., Mazánek V., Sofer Z. | Prague
- P52. Transition Metal Dichalcogenides Nanoparticles as a Label for Magneto-Immuno-sandwich Assay**
Mazánek V., Libánská A., Bouša D., Luxa J., Sofer Z. | Prague
- P53. Využití SPS při přípravě intermetalických sloučenin**
Knaisslová A.¹, Novák P.¹, Průša F.¹, Cygan S.², Jaworska L.² | ¹Praha, ²Krakow (Polsko)

PETROCHEMICALS AND ORGANIC TECHNOLOGY

- P54. Hydrogenation of C6 Dienic Compounds Using Ruthenium Catalysts**
Kotova M., Karlíčková A., Vyskočilová E., Červený L. | Prague
- P55. Phenylacetylene as an Acid Catalyst for Organic Reactions**
Sekerová L., Frýbová M., Vyskočilová E., Červený L. | Prague
- P56. Synthesis of Several New Fulgides and Their Spectral Characteristics**
Kišac M., Machalický O. | Pardubice
- P57. Influence of Rehydration of Mixed Oxides on Their Activity in Aldol Condensation**
*Kocík J.¹, Frolich K.², Kadlec D.¹, Kolena J.¹, Velvarská R.¹, Horáček J.¹ |
¹Litvínov-Záluží, ²Pardubice*
- P58. Pd Modified Layered Double Hydroxides as Bifunctional Catalysts for 4-Tert-Butyl-A-Methylhydrocinnamic Aldehyde Preparation**
Paterová I., Makovcová L., Červený L., Kovanda F. | Prague
- P59. Substitution of Trichlorethylene as Extraction Solvent in Crude Caprolactam Refining**
*Obalová L.¹, Fojtášková J.¹, Koumar J.², Leštinský P.¹, Maršolek P.¹, Maxa M.² |
¹Ostrava, ²Prague*
- P60. Regeneration of II Solvents Used for Separation of Tert-Butyl Alcohol–Water Mixture**
Graciová E., Šulgan B., Steltenpohl P. | Bratislava
- P61. The Impact of Biodiesel on the Thermal-Oxidative Stability of Motor Oil**
Korobeynikov A. V., Stakhiv V. I., Esin E. V. | Moscow (Russia)
- P62. Development of Competitive Compoundings of Miscible Cutting Fluids**
Esin E. V., Korobeynikov A. V., Stakhiv V. I. | Moscow (Russia)
- P63. Experience of Import Coolant Oils in the Example of Oil Based in Products Hydroisomerization of Paraffins**
Stakhiv V., Bagdasarov L., Agabekov S. | Moscow (Russia)
- P64. Mg-Al-Zn Mixed Oxides as Effective Catalysts in Aldol Condensations**
*Vrbková E.^{1,2}, Varlamov A.¹, Tišler Z.², Vyskočilová E.¹, Červený L.¹ |
¹Prague, ²Záluží-Litvínov*

POLYMERS, COMPOSITES

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Bohacik P., Podzimek S., Spacek V., Bandzuch J. | Pardubice
- P66. Rheological Properties of the Polyurethane Adhesives**
Palarczyková Z., Šiška B., Machač I. | Pardubice
- P67. "Smart" Coating Binders Based on Self-Crosslinking Acrylic Latexes**
Rückerová A., Machotová J., Puková K., Kalendová A. | Pardubice
- P68. Eco Friendly Polymer Systems Based on Polyvinyl Acetate and Saccharides**
Puková K., Machotová J., Mikulášek P., Rückerová A. | Pardubice
- P69. Investigation of the Autoxidation Process by Time-Resolved Infrared Spectroscopy**
Honzíček J., Vinklárek J., Kalenda P. | Pardubice
- P70. Drying Activity of Benzoyl Ferrocene in Solvent-Borne Alkyd Resin**
Vinklárek J., Schejbal J., Kalenda P., Honzíček J. | Pardubice
- P71. Use of Ionic Dyes with Ion Exchangers**
Kůs P., Kunešová K., Skala M., Kotowski J. | Husinec – Řež
- P72. Preparation of Nanostructured Surfaces Using UV Radiation and Their Analysis**
Knapová T., Neubertová V., Kolská Z. | Ústí nad Labem
- P73. Analysis of Impurities in Pigments**
Fischer J., Kulhavá I., Vilišová P., Česla P., Česlová L. | Pardubice
- P74. Synthesis of Star Polymers Applicable as Fillers for Polyurethane Coatings by Ionic Polymerization**
Bohacik P., Podzimek S., Spacek V., Bandzuch J. | Pardubice
- P75. Chlorine Dioxide Bleaching of Soda Rapeseed Pulp**
Potůček F., Říhová M. | Pardubice
- P76. Displacement Washing of Kraft Spruce Pulp Cooked to Low Kappa Number**
Potůček F., Rahman M. M. | Pardubice

- P77. Living/Controlled Olefin Polymerization by Nickel Complexes with Perfluoroalkyl Substituted Diimine Ligands**
Sokolohorský A., Mundil R., Hošek J., Čiśařov I., Kvcala J., Merna J. | Prague

OIL, GAS, COAL, FUEL, BIOFUELS

- P78. S-Value: A Practical Approach to the Procedure for Quantifying the Intrinsic Stability of Asphaltenes in Residual Fractions**
ern R., Hamernkov J., Hidalgo J.M., Vrblk A., Jřa P. | Litvnov
- P79. Porovnanie fyziklnochemickch vlastnost alkohol/benznovch zmes**
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- P80. The Theoretical Principles of Pyrolysis of Lignocellulosic Biomass**
Shumeiko B., Auersvald M., Stař M. | Prague
- P81. The Effect of Pressure on Hydrotreating of Rapeseed Oil**
Vchov V.¹, Straka P.¹, Blařek J.¹, Kubika D.^{1,2}, řimcek P.¹ | ¹Prague, ²Kralupy nad Vltavou
- P82. Influence of Reaction Conditions and Addition of Waste Cooking Oil to Feedstock for Bitumen Semi-Blowing on Properties of Products**
Jřa P., ern R., Matouřek L. | Litvnov
- P83. Catalytic Hydrotreating of Light Cycle Oil and Its Mixture with Atmospheric Gas Oil**
Hidalgo J. M., Vajglov Z., Vrblk A., ern R., Lederer J. | Litvnov-Zluř
- P84. Potential of Mixed Oxides as Catalyst for Methyl ester Production**
Hjek M.¹, Kock J.^{1,2}, Vvra A.¹, Jlkov A.¹ | ¹Litvnov-Zluř, ²Pardubice
- P85. Diesel Fuels from Renewable Sources**
Slezckov M., Bratsk D. | Bratislava
- P86. Ageing of Bituminous Binders in Mixture with Different Types of Mastic**
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- P87. Mathematical Model of Fischer-Tropsch Synthesis**
Filip L.¹, Zmostn P.¹, Rauch R.^{2,3} | ¹Prague, ²Vienna (Austria), ³Gssing (Austria)
- P88. Adsorption Drying of Natural Gas**
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- P89. Propargylic Moiety in Prostaglandins – Interesting Target of Synthesis Focused on Technological Aspects**
Imramovský A.¹, Pauk K.¹, Monteiro S.¹, Pavlík J.² | ¹Pardubice, ²Neratovice
- P90. Technology of 4th Generation Platinum Cytostatics with Adamantyl Ligands**
Svoboda J., Syslová K. | Prague
- P91. Rozpuštěnost pevných léčiv v polymerech: Kalorimetrické stanovení a aplikace termodynamických modelů**
Velas J., Řehák K. | Praha
- P92. Synthesis and Stereoselective Study of Alfaprostol Omega-Chain**
Monteiro S.¹, Imramovský A.¹, Pauk K.¹, Pavelová R.², Pavlík J.² | ¹Pardubice, ²Neratovice
- P93. Self-Emulsifying Drug Delivery Systems for Drug Solubility Enhancement**
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- P94. Dissolution of Candesartan Cilexetil in Fasted State Simulated Media**
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- P95. Novel Derivatives of Substituted 6-Fluorobenzothiazole Diamides: Synthesis, Antifungal Activity and Cytotoxicity**
Pejchalová M., Královec K., Pejchal V., Růžičková Z. | Pardubice
- P96. Synthesis of Substituted 6-Fluorobenzothiazole Sulfonamides as Potential Antimicrobial Agents**
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- P97. Structural Characterization of 3 Sodium Aspirin Forms**
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- P98. Vliv hydrofilních polymerů na disoluční profily binárních směsí**
Školáková T., Slámová M., Patera J., Zámotný P. | Praha

WASTE PROCESSING, AIR AND WATER PROTECTION, TECHNOLOGIES FOR THE DECONTAMINATION OF SOILS

- P099. Autotrophic Denitrification Using Bacteria *Thiobacillus Denitrificans* and Elemental Sulfur in Flow-Through System**
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- P100. Photocatalytic Removal of Emerging Pollutants**
Trousil V., Blažková Z., Palarčík J., Machalický O., Cakl J. | Pardubice
- P101. Permeability of Fumasep-FAD Membrane for Inorganic Acids**
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- P102. Preparation and Characterization of Catalysts for Tar Decomposition**
Husár J., Steltenpohl P., Haydary J. | Bratislava
- P103. Sorption of Selected Heavy Metals from Oxalic Acid Solution Using Different Types of Sorbents**
Chlupáčová M.^{1,2}, Kůs P.¹, Parschová H.² | ¹Husinec - Řež, ²Prague
- P104. Odstraňovanie chlórovaných zlúčenín pri pyrolýze odpadných plastov**
Hájeková E., Andrejkovicsová K., Peller A., Jambor B. | Bratislava
- P105. Use of Water- And Ethanol-Modified Supercritical Carbon Dioxide for Direct Preparation of Crystalline Monolithic TiO₂ Aerogels**
Cerhová M.¹, Sajfrtová M.¹, Matějová L.², Dřínek V.¹, Daniš S.¹, Jandová V.¹ | ¹Prague, ²Ostrava
- P106. Cesium Doped CO₃O₄ Spinel for N₂O Decomposition**
Obalová L., Michalík S. | Ostrava
- P107. Purification of Flue Gases by Membrane Processes**
Červenka V.¹, Žitková A.¹, Vejražka J.¹, Bobák M.², Izák P.¹ | ¹Prague, ²Stráž pod Ralskem
- P108. Stability and Sorption Efficiency of Mg-Fe Layered Double Hydroxides and Mixed Oxides in Soils Contaminated by Zinc and Arsenate**
Hudcová B., Komárek M. | Prague
- P109. Direct NO Decomposition Over K-Promoted Co-Mn-Al Mixed Oxides**
Bílková T., Pacultová K., Obalová L. | Ostrava

- P110. Vplyv podmienok syntézy na vlastnosti Co-hydrotalcitov pre NSR-reakciu znižovania obsahu NO_x v emisiách dieselových motorov**
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- P111. Multispecies Aquatic Microcosm as a Tool for Chemical Assessment**
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- P112. Comparison of Microwave and Direct Burner Heating During *In-Situ* Pilot Scale Remediation on the Area of Machinery Company**
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- P113. Treatment of Industrial Effluents by Electrocoagulation**
Krystyník P.¹, Klusoň P.¹, Mašín P.², Kroužek J.² | ¹Prague, ²Stehelčevy
- P114. Ceria-Titania Support of Cobalt Oxide Catalysts: The Effect of Surfactant Addition on Physical-Chemical and Catalytic Properties**
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