



Bažant Postgraduate Conference

*ICPF Large Meeting Room
Tuesday, 18 June 2019*

Conference Programme

9:00 Conference Opening

9:10 Kingsley Ezeji, MSc.: *Hydrodynamic Behavior of Large Bubbles in Slot Channels*

9:25 Ing. Jakub Crha: *Single Rising Bubble – COMSOL and Fluent Comparison*

9:40 Ing. Simona Lucáková: *Electrocoagulation of Microalga *Chlorella vulgaris**

9:55 Ing. Markéta Spáčilová: *Sorption Materials with Specific Properties for Water Cleaning*

10:10 Ing. Jakub Bumba: *Magnesium Silicide and Germanide from Electronic Waste as a Source of CVD Precursors for Potential Catalysts Preparation*

10:25 Coffee Break

10:40 Mgr. Adéla Holubová-Šmejkalová: *Five years of Aerosol Particles Growth Rate Measurements at Four Background Stations in the Czech Republic*

10:55 Nirmal Parmar, MSc.: *Measurements of Heat Capacity of Carbon Nanotube Ionanofluids and Data Analysis by Mathematical Gnostics*

11:10 Maja Čanji, MSc.: *Comparison of Experimental Heat Capacity Data of Ionic Liquids with Prediction Methods and Advanced Data Analysis*

11:25 Ing. Ema Kosović: *Stability Testing of Active Substances from Wine Waste Determined by HPLC-MS*

11:40 Ing. Lenka Michálková: *^1H NMR Metabolomic Blood Plasma Analysis for Early Detection of Pancreatic Cancer*

11:55 Lunch Break



13:30 Ing. Tomáš Beránek: *Synthetic Pathways Leading to Phosphahelicenes*

13:45 Ing. Martin Jakubec: *Photochemical Derivatization of Helicenes*

14:00 Ing. Jaroslav Váňa: *Transition Metal Complexes with Aza[n]phenacene Ligands*

14:15 Ing. Monika Müllerová: *Carbosilane Building Blocks for Synthesis of Dendritic Macromolecules*

14:30 Ing. Antonín Edr: *Amphiphilic Dendritic Compounds as Drug Delivery Systems*

14:45 *Coffee Break*

15:00 Sneha Bhattarai, MSc.: *Importance of Ageing in MSWI Bottom Ash Utilization*

15:15 Ekaterina Korotenko, MSc.: *Zinc Recovery Potential of MSWI Fly Ash Acid Extraction*

15:30 Ing. Tomáš Ružovič: *Advanced System for Reduction of Mercury Emissions in Model Gases by Modified Sorbents*

16:00 Ing. Jaroslav Moško: *Physico-Chemical Properties of Sludge-Char*

16:15 *Conference Closing*

17:15 *Conference Winners Announcement*