



## Bažant Postgraduate Conference

*ICPF Large Meeting Room  
Monday, 6 June 2016*

### Conference Programme

#### **9:00–9:10 *Conference Opening***

**9:10–9:25** Ing. Jan Rotrekl: *Study of Impurities and their Effect on the Physico-Chemical Properties of Ionic Liquids*

**9:25–9:40** Maja Čanji, MSc: *Solute-Solvent Interaction in Systems of Ionic Liquids with Molecular Solvents*

**9:40–9:55** Ing. Štěpán Horník: *NMR Aerosolomics: A Convenient Route to Organic Aerosol Analysis*

**9:55–10:10** Ing. Holubová-Šmejkalová: *Formation and Transformation of Atmospheric Aerosol in Atmospheric Boundary Layer*

**10:10–10:25** Ing. Michal Žák: *Separation of Raw Biogas by Membrane Processes*

#### **10:25 *Coffee Break***

**10:45–11:00** Ing. Lubomír Váňa: *Synthesis of Amidoazahelicenes by Photocyclization of Aromatic Amides*

**11:00–11:15** Ing. Martin Kos: *Photochemical Synthesis of Novel Bidentate Aromatic Ligands*

**11:15–11:30** Ing. Tomáš Beránek: *Transition-Metal Complexes Bearing Helical Phosphines and their Catalytic Activity*

**11:30–11:45** Ing. Martin Jakubec: *Preparation of New Helically Chiral Flavins as Possible Photocatalysts*

**11:45–12:00** Ing. Pavel Jakubík: *Flow Photoreactor for Cyclization Reactions*

#### **12:00 *Lunch Break***



**13:00–13:15** Ing. Marie Cerhová: *Preparation of Nanocrystalline Titania Thin Films and Aerogels by using Modified Supercritical Carbon Dioxide*

**13:15–13:30** Ing. Boleslav Zach: *Comparison of  $\text{Ca}(\text{OH})_2$  and  $\text{NaHCO}_3$  as Sorbents Suitable for Dry Flue Gas Treatment at Temperatures Below 250 °C*

**13:30–13:45** Ing. Jiří Brynda: *Possibilities of High Temperature Desulphurization of a Producer Gas*

**13:45–14:00** Ing. Aneta Krausová: *Characterization of Bottom Ash from Czech Waste-to-Energy Plants*

**14:00–14:15** Ing. Jakub Bumba: *Preparation of magnesium silicide from scrap for hydrogen and pure silicon production*

**14:30** *Conference Closing*

**16:00** *Conference Winners Announcement*



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