



## Bažant Postgraduate Conference

*Large Conference Room of the ICPF*

*13 – 14 June 2022*

### Conference Programme

Monday, 13 June 2022

#### **9:00 Conference Opening**

**9:10** Ing. Jan Čížek: *Chiral membrane prepared by electrostatic modification of ion-exchange membrane*

**9:25** Ing. Matěj Hušek: *Removal of PFASs from sewage sludge by pyrolysis*

**9:40** Ing. Anastasia Shtukaturova: *Analysis of textile waste streams in the Czech Republic*

**9:55** Ing. Jiří Štěrba: *Application of hydrodynamic cavitation in brewing*

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

**10:20** Ing. Karolina Salvadori: *Multiplication of urea sites - impact on binding phosphates*

**10:35** Mgr. Lenka Suchánková: *A seven-years based characterization of aerosol light scattering properties at Central European rural site: Variability and source apportionment*

**10:50** Julaha Kajal, MSc.: *Vertical distribution of black carbon (BC)*

#### **11:05 Coffee Break**

**11:15** Mgr. Natálie Jaklová: *Continuous production of 1-methyl-10 $\alpha$ -methoxydihydrolysergic acid methyl ester via microreactors*

**11:30** Ing. Petra Mušálková: *Use of photoautotrophic microorganisms in bioremediation of surface waters*

**11:45** Mahasoia-Salina Souvenir-Zafindrajaona, MSc.: *Synthesis of biobased ionic liquids from the choline for lignin derivatization*

#### **12:00 Closing Remarks**



Tuesday, 14 June 2022

**9:00 *Opening Remarks***

**9:10** Ing. Jakub Crha : *Experimental study of bubble dynamics in aqueous solutions of simple alcohols: CFD validation data*

**9:25** Ing. Simona Lucáková: *Continuous electrocoagulation of Chlorella vulgaris in a novel channel-flow reactor*

**9:40** Ing. Markéta Spáčilová: *What happens to microplastics in nature*

**9:55** Susmita Dolai, MSc.: *Slit geometry microreactor for light induced photocatalysis with graphite carbon nitride thin films*

**10:10 *Coffee Break***

**10:25** Nirmal Parmar, MSc.: *The study on stability of ionanofluids; change in heat capacity of ionanofluids over a long period of time*

**10:40** Mahdi Bourassi, MSc.: *Tetracycline degradation using catalysts of platinum coated over CeO<sub>2</sub> and CeO<sub>2</sub>ZrO<sub>2</sub>*

**10:55** Ing. Radek Lhotka: *Ambient organic aerosol origin at rural background site in the Czech Republic*

**11:10** Ing. Lenka Michálková: *NMR-based metabolomic analysis of blood plasma as a pancreatic cancer diagnostic tool*

**11:25 *Lunch Break***

**13:00** Ing. Vít Šrámek: *Utilization of solid sorbents for high temperature removal of halogenated compounds from pyrolysis of waste plastic*

**13:15** Ing. Antonín Edr: *Adaptive synthesis of functional amphiphilic dendrons for drug nanocarrier assembly*

**13:30** Ing. Martin Kurfiřt: *Deoxyfluorinated N-acetyllactosamines as carbohydrate-based probes for human galectins*

**13:45** Ing. Vojtěch Hamala: *Hybrid organometallic galectin inhibitors*

**14:00 *Conference Closing***

**15:30 *Conference Winners Announcement***