



## Bažant Graduate Conference

*Large Conference Room of the ICPF*

*31 May and 1 June 2023*

### Conference Programme

Wednesday, 31 May 2023

#### **14:30 *Conference Opening***

**14:40** RNDr. Radek Lhotka: *Ambient organic aerosol origin at rural background site in the Czech Republic*

**14:55** Mahdi Bourassi, MSc.: *How can we best eliminate pharmaceuticals from wastewater?*

**15:10** Ing. Martin Kurfiřt: *Detailed Investigation of Human Galectins -1 and -3 by employing selectively deoxyfluorinated N-acetyllactosamines*

**15:30** Ing. et Ing. Vojtěch Hamala: *Organoruthenium glycomimetics as selective galectin-1 inhibitors*

#### **15:45 *Closing Remarks***

Thursday, 1 June 2023

#### **9:00 *Opening Remarks***

**9:05** Ing. Karolina Salvadori: *Utilization of electrochemically induced cleavage of various sulfonimides*

**9:20** Mahasoa-Salina Souvenir-Zafindrajaona, MSc.: *Green approach for the preparation of biosourced ionic liquids and the study of their thermodynamic properties*

**9:35** Ing. Aleš Krčil: *Synthesis and cytotoxicity of fluorinated mannosamines*

#### **9:50 *Coffee Break***

**10:00** Ing. Jan Čížek: *Chiral anion exchanger based on  $\alpha$ -methylbenzylamine for enantioselective separation of racemic acids*

**10:15** Ing. Jiří Štěřba: *Application of hydrodynamic cavitation in brewing*



**10:45** Ing. Claudia Vásquez: *Cultivation of Limnospira maxima and utilization of its fresh biomass in human nutrition*

**11:00** Mgr. Petra Mušálková: *Use of photoautotrophic microorganisms in the bioremediation of surface waters*

**11:10** *Coffee Break*

**11:15** Ing. Matěj Hušek: *Organic fluorine content and change during thermal treatment*

**11:30** Ing. Anastasia Shtukaturova: *Hazardous components: A case study in textile waste management*

**11:45** Ing. Antonín Šperlich: *Investigation of recycling possibilities of discarded photovoltaic solar panels*

**12:00** Ing. Anežka Sedmihradská: *Properties and use of high-temperature biochar*

**12:15** *Lunch Break*

**13:00** Kajal Julaha, MSc.: *Intercomparison of Boundary layer and Mixing layer height from models and ground-based measurements*

**13:15** Ing. Jiří Kovářík: *Vertical gradients of atmospheric aerosols chemical composition*

**13:30** Mgr. Lenka Suchánková: *The effect of meteorology and aerosol size distribution on light scattering properties at a rural background site in Central Europe*

**13:45** *Coffee Break*

**13:50** Mgr. Natalie Jaklová: *N-alkylation of a lysergic acid derivative under PTC conditions in a continuous arrangement using sonication*

**14:05** Mgr. Anna Paříková: *Separation of nanoparticles from polydisperse suspensions in microfluidic devices*

**14:20** Ing. Mark Terentyak: *Liquid mixing time and gas holdup in a bubble column bioreactor*

**14:35** Mgr. Václav Harrantdt: *The electrodiffusional theory for wall shear stress measurement by the two-strip probe: journey to near-wall region hydrodynamics*

**14:50** *Conference Closing*

**15:45** *Conference Winners Announcement*