

StudKon 2023 programme:

MONDAY 26. 6. 2023	
Registration	8 – 9 a.m.
Morning sessions	9 a.m. – 1:50 p.m.
9:00 – 9:20 a.m.	Opening and welcome session, introduction of guests
	Talks session 1
9:20 – 10:40 a.m.	9:20 Štěpanovská Eva 9:40 Syrový Michal 10:00 Šulc Martin 10:20 Dušková Tereza
10:40 – 11:10 a.m.	Coffee break
	Talks session 2
11:10 a.m. – 12:30 p.m.	11:10 Štěpka Jan 11:30 Bílková Gabriela 11:50 Boonen Katrien 12:10 Kwoczynski Zdeňka
12:30 – 1:50 p.m.	Lunch break
Afternoon sessions	1:50 – 6:00 p.m.
1:50 – 2:00 p.m.	Jiří Orava: Introduction of UJEP research equipment database
	Talks session 3
2:00 – 3:20 p.m.	2:00 Harrandt Václav 2:20 Paříková Anna 2:40 Panuška Petr 3:00 Snow Jan
3:20 – 3:30 p.m.	Taking photo together
3:30 – 5:30 p.m.	Poster session + secret quiz for the audience + light refreshment
5:30 – 6:00 p.m.	Technical break
Evening programme	6:00 – 10:00 p.m.
6:00 – 6:30 p.m.	Feedback to students (presentation skills and scientific content)
6:30 – 7:00 p.m.	The Miroslav Broul award ceremony
7:00 – 10:00 p.m.	Barbecue

List of participating PhD students and their contributions:

Talk session 1

- **Štěpanovská Eva** (PřF): Modification of graphene oxide and polymer films with energetic ion beams for their use in lithium battery applications
- **Syrový Michal** (PřF): Simple one-step preparation of functional nanofibrous materials for CO₂ capture
- **Šulc Martin** (FŽP): Gypsum technology of separation Li₂CO₃ from Zinnwaldite mineral
- **Dušková Tereza** (PřF): Metal complexes with polyfluorinated NHCS

Talk session 2

- **Štěpka Jan** (PřF): Analysis of the effect of CeO₂ nanoparticles on microbial communities in anaerobic digestion process of biogas plant
- **Bílková Gabriela** (FŽP): Factors controlling Mn contents in leaves of silver and downy birch in acid soils of central Europe and Norway
- **Boonen Katrien** (FŽP): Which factors influence mercury accumulation in tree rings?
- **Kwoczynski Zdenka** (FŽP): Biochar from local biomass waste as a soil amendment - The effect on the bioavailability of elements

Talk session 3

- **Harrandt Václav** (PřF): The electrodiffusional theory for wall shear stress measurement by two-strip probe: a journey to near-wall region hydrodynamics
- **Paříková Anna** (PřF): Condensational growth of submicrometer particles for targeted high-efficiency pulmonary delivery
- **Panuška Petr** (PřF): A microfluidic chip for generation and cultivation of tumor spheroids fabricated from OSTE+ polymer.
- **Snow Jan** (FŽP): Removal of chlorine during pyrolysis of plastic waste

Poster session

- **Aubrecht Petr** (PřF): non-public title and abstract
- **Dědičová Šárka** (PřF): Effects of external electric fields on the structure of oligo(ethylene glycol) in explicit solvents by molecular dynamics simulations
- **Fales Alexandr** (FSI): Educational robotics
- **Greguš Viktor** (PřF): Association of cobaltacarborane derivative in aqueous solutions: Light scattering study
- **Hamalová Kateřina** (PřF): Amine-doped PEBA membrane for CO₂ capture
- **Hoskovec Jakub** (PřF): Polyurethane nanofiber membranes modified by amines for CO₂ capture
- **Kocholatá Michaela** (PřF): Isolation and characterization of plant exosomes for biomedical applications
- **Mamirova Aigerim** (FŽP): Biochar-driven phytoremediation of complex contaminated sediments: Case study of Paulownia tomentosa
- **Matysová Pavlína** (PřF): Molecular simulations of salts hydrates
- **Newton Robert Ato** (FŽP): Impact of soil amendments on the production of Miscanthus × giganteus biomass at the slightly contaminated post-mining areas
- **Poustka David** (PřF): Straight channel microfluidics for viscoelastic exosome separation – Influence of geometry and materials
- **Vaněk Martin** (FŽP): Determination of Mercurialis ovata and Mercurialis perennis hybrids according to morphological features and genome size