

SEMINÁŘ STUDENTŮ 2025
PROGRAM – středa 21. května 2025

STUDENT SEMINAR 2025
PROGRAM - Wednesday May 21, 2025

	<i>Předseda- jící/ chairman</i>	<i>Přednášející/ lecturer</i>	<i>Název/ presentation title</i>
9:00-9:10	Zahájení konference „Seminář studentů 2025“ <i>Opening of Annual conference "Seminar of Students 2025"</i>		
9:10-9:25	Valerie Smeliková	Karolina Fárníková (VŠCHT Praha, školitelka E. Krupičková Pluhařová)	MOLECULAR MODELLING OF CATALYSTS FOR CO ₂ REDUCTION
9:25-9:40		David Gabaj (VŠCHT Praha, školitelky: L. Šimková a K. Salvadori)	(SPEKTRO) ELEKTROCHEMICKÁ STUDIE DIFENYLIZOBENZOFURANŮ, NADĚJNÝCH KANDIDÁTŮ PRO ZVÝŠENÍ ÚČINNOSTI SOLÁRNÍCH ČLÁNKŮ
9:40-9:55		Daniel Myšák (VŠCHT Praha, školitelka E. Krupičková Pluhařová)	COMPUTATIONAL MODELLING OF GLUTAMATE DEHYDROGENASE IN CROWDED ENVIRONMENT WITH FOCUS ON THE ACTIVE SITE
9:55-10:10		Marek Beneš (VŠCHT Praha, školitelka R. Sokolová)	DEVELOPMENT OF METHODOLOGY FOR FLUORESCENCE SPECTROELECTROCHEMISTRY MEASUREMENTS
10:10-10:45	PŘESTÁVKA NA KÁVU A ZÁKUSEK (Coffee break in lobby)		
10:45-11:00	Jakub Martinka	Paulína Šimková (Přf UK Praha, školitelka E. Krupičková Pluhařová)	MOLECULAR DYNAMICS SIMULATION OF DEXTRAN INTERACTIONS WITH BIOLOGICALLY RELEVANT MOLECULES
11:00-11:15		Petr Čech (školitelé Z. Vlčková a O. Frank)	(SPECTRO)ELECTROCHEMISTRY IN CHAOTROPIC PERCHLORATE WATER-IN-SALT ELECTROLYTES
11:15-11:30		Petr Vítek(VŠCHT Praha, školitel S. Valtera)	ATOM BY ATOM BUILT ATOMICALLY PRECISE CuPd PENTAMER CLUSTERS FOR CYCLOHEXENE DEHYDROGENATION
11:30-11:45		Ashwathi Poolamanna (školitel Š. Timr)	SUBSTRATE BINDING IN ENZYME CLUSTERS: EFFECTS OF CROWDERS AND TRANSIENT INTERACTIONS
11:45-12:00		Stanislav Valtera (školitel Š. Vajda)	SELECTIVE OXIDATIVE DEHYDROGENATION OF CYCLOHEXENE OVER Cu ₃ Pd ₂ CLUSTERS FOR H ₂ GENERATION
12:00-13:00	OBĚD VE VESTIBULU (Lunch in lobby)		
13:00-13:15		Madhav Samanta (školitel Š. Timr)	CROWDERS ALTER ACCESSIBILITY OF ADENYLATE KINASE CONFORMATIONAL SPACE

13:15-13:30	Karolina Simkovičová	Niklas Hansen (školitelka V. Petráková)	HIGH-YIELD ASSEMBLY OF PLASMON-COUPLED NANODIAMOND SYSTEMS VIA DNA ORIGAMI FOR TUNABLE LIGHT EMISSION
13:30-13:45		Samrat Saha (školitel P. Nag)	ELECTRON COLLISION WITH LIQUID MICRO-JET: QUANTIFYING SOLVATED ELECTRONS
13:45-14:00		Jakub Martinka (školitel J. Pittner)	MACHINE LEARNING ACCELERATED SIMULATIONS OF PHOTOCHEMICAL PROCESSES
14:00-14:15		Jan Šimek (školitel R. Šachl)	LIPID SCRAMBLING PATHWAYS IN THE SEC61 TRANSLOCON COMPLEX
14:15-14:30	PŘESTÁVKA (Break)		
14:30-14:45	Niklas Hansen	Valerie Smeliková (školitel M. Kalbáč)	TREATMENT OF MOS ₂ MONOLAYERS BY ATOMIC DEUTERIUM
14:45-15:00		Martin Jindra (školitel O. Frank)	RAMAN SPECTROELECTROCHEMISTRY OF GRAPHENE ELECTRODES
15:00-15:15		Seyed A. M. Bukhari (školitel O. Frank)	RESTORING PHOTOLUMINESCENCE IN METAL- EXFOLIATED, LARGE AREA MOLYBDENUM DISULFIDE
15:15-15:30		Zuzana Johanovská (školitel M. Hof)	INTRODUCE METHOD, WE HAVE NOT USED HERE BEFORE, THEY SAID. IT WILL BE FUN, THEY SAID.
15:30-15:45		Satyam Sahu (školitel M. Velický)	EXPLORING RESONANCE RAMAN SCATTERING AND STIMULATED RAMAN SCATTERING EFFECTS IN CrSBr
15:45-16:15	PŘESTÁVKA NA KÁVU A ZÁKUSEK (Coffee break in lobby)		
16:15-16:30	Zuzana Johanovská	José Alfredo González Navarro (školitel M. Cebecauer)	DISTRIBUTION OF ADHESION MOLECULES IN THE IMMUNOLOGICAL SYNAPSE
16:30-16:45		Karolina Simkovičová (školitel Š. Vajda)	INSIGHTS INTO PARTICLE-SUPPORT INTERACTIONS AND THEIR ROLE IN CO ₂ HYDROGENATION CATALYSIS
16:45-17:00		Daniela G. B. Campoy (školitel J. Sýkora)	TUNING PEG BASED MOLECULES FOR CUSHIONING SUPPORTED LIPID BILAYERS MONITORED BY GRAPHENE INDUCED ENERGY TRANSFER
17:00-17:15		Truong An Nguyen (školitel Š. Timr)	MECHANISTIC INSIGHTS INTO ALLOSTERIC REGULATION OF HUMAN PHOSPHOFRUCTOKINASE-1 BY MOLECULAR DYNAMICS SIMULATIONS
17:15-17:30		Irene Echezarreta Mendicute (školitelé K. Paldusová a M. Cebecauer)	NEUTROPHIL RESPONSE TO MULTIPLE STIMULI
17:30-17:45	UZAVŘENÍ KONFERENCE - V SÁLE RUDOLFA BRDIČKY <i>Closing ceremony (in Brdička Hall)</i>		