

Program of XD107 seminar in the Spring Semester 2026			
Thursday June 4, 2026 B11-132			
Time			
	8:00 - 8:45	Registration	Sign attendance sheet in B11/132 room. Pin up posters in the Hallway between C14 and B11, 2nd floor
	8:45 - 9:00	Opening	B11-132
Number	Lectures		B11-132
	9:00	Award ceremony	Awards for the best students by the Head of the Department of Chemistry
1	9:15	Ivo Krempl	IMAGING OF URANIUM AND SELENIUM ORES BY LASER-INDUCED BREAKDOWN SPECTROSCOPY (LIBS)
2	9:45	Štěpán Káňa	Geochemical Aspects of Hydrocarbon Biodegradation in Reservoirs of the Vienna Basin and the Nesvačilka Paleovalley
3	10:15	Pavel Chaloupský	Detection of Microplastics in Cave Sediment: A Laser Induced Breakdown Spectroscopy-Based Approach
	10:45 - 11:00	BREAK	
4	11:00	Pavlna Dadajová	Description of pH gradient by low-molecular-weight markers of isoelectric point and their application for separation of biological agents using isoelectric focusing
5	11:30	Markéta Stráníková	Study of Metal Release from Implants: Metal Accumulation in Cell Cultures Using LA-ICP-MS
6	12:00	Lucie Šimoníková	Comparative Evaluation of Phosphate and Lithium Metaborate Fusion for Multielement ICP-OES Analysis of Nb-Ta Ores
	12:30 - 14:30	Poster session	Hallway between C14 and B11, 2nd floor. All poster authors are present at their posters. Vote for the best poster by 14:30 in B11-132
7	14:30	Michaela Bahelková	CADMIUM ACCUMULATION IN ORGAN TISSUES AFTER INHALATION OF CADMIUM-BASED NANOPARTICLES
8	15:00	Raju Hazra	Total Synthesis of the Cryptic Secondary Metabolites Acybolins and the Convergent Synthetic Approach to Aphidicolin Scaffold
9	15:30	Michaela Šusterová	Materials Containing Bambus[n]uril Macrocycles
	16:00- 16:15	BREAK	
10	16:15	Lucie Leonová	Synthesis, characterization, surface modification, and catalytic activity of (metallo)silicates
11	16:45	Milan Říha	Interactions of Au(I) Complexes with Thioredoxin Reductases (TrxR)
12	17:15	Jan Badin	Deuterated Water Impact on Analytical Chemistry: Luminescence Enhancement and Separation Advantages
	17:45 - 18:00	BREAK	Vote for the best lecture by 17:45 in B11-132
	18:00	Best Lecture Award, Best Poster Award, Conclusion	B11-132
		Posters	Hallway between C14 and B11, 2nd floor
1		Radim Štůsek	Quantifying precursor film propagation from a frozen aqueous sample
2		Anna Kosmáková	Comprehensive two-dimensional liquid chromatography of proteins and peptides
3		Hynek Podlipný	Proteomic determination of leather animal species
4		Lukáš Cach	COMPARISON OF SEPARATION METHODS FOR ANALYSIS OF DRUGS CONTAINING ACETYLSALICYLIC ACID
5		Sumit Tiwari	Synthesis of Chiral Bambus[n]urils with Divergent Functionalization Using Orthogonal Protection
6		Pavel Chaloupsky	Cave Microbiomes Reflect Pollution Pressure in Largest Czech Karst Cave Systems
7		Valentína Berecová	Defect-induced magnetism in undoped WO ₃ thin films: first-principles analysis of point defects
8		Vojtěch Vařečka	Beyond IC50: A Re-Engineered Stopped-Flow Kinetic Framework for Human Carbonic Anhydrase Inhibition Studies
9		Kateřina Hružová	In silico optimization of two-dimensional liquid chromatography in proteomics
10		Jiří Volánek	SOLID PHASE PRECONCENTRATION OF BIOLOGICAL THIOLS USING GOLD NANOPARTICLES GRAFTED TO ANION EXCHANGE SUPPORT
11		Adam Štefek	Discovery of new selective protein kinase inhibitors
12		David Mužík	Excimer of 1-Methylnaphthalene Originates in Ground State Dimer
13		Lukáš Veselý	Freezing-Induced Buffer Failure in PBS: Transition from Near-Neutral to Strongly Acidic pH
14		Ondřej Czechaczek	11-Helicene derivatives and their resolution