

**Program of XD107 seminar in the Fall Semester 2019**  
**Wednesday February 12, 2020 A11-132**

	Time		
	8:00 - 8:45	Registration	Sign attendance sheet in A11/132. Pin up posters in Hallway between A14 and A11, 2nd floor
	8:45 - 9:00	Opening	A11-132
Number		Lectures	A11-132
1	9:00	Eva Zikmundová	Laser ablation-based methods in the analysis of the objects of cultural heritage
2	9:30	Vojtěch Ledvina	Single-cell analysis of apoptosis associated molecules
3	10:00	Václav Němec	Discovery of novel selective modulators of selected therapeutically relevant biological targets
	10:30 - 11:00	Break	
4	11:00	Magda Dvořáková	ANALYTICAL ASPECTS OF PLASMA PENCIL UTILIZATION
5	11:30	Jakub Stošek	Mechanistic analysis of alkyne trans-haloboration: A DFT and MP2 study
6	12:00	Martina Mazalová	The effect of vacancies on grain-boundary segregation in fcc ferromagnetic Ni
	12:30 - 14:00	Break	
	14:00 - 15:00	Posters	Hallway between A14 and A11, 2nd floor. <b>All poster authors present at their posters.</b> Vote for the best lecture and poster by 15:00 in A11-132
	15:30	Best Lecture Award, Best Poster Award, Conclusion	A11-132

Thursday February 12, 2020	Posters	Hallway between A14 and A11, 2nd floor
1	Hugo Semrád	A quantum chemical study of isomerization step within acetylene bromoboration
2	Michaela Hložková	Fundamental study of laser beam-minerals interaction and utilization of LA-ICP-MS in geology
3	Vojtěch Ledvina	A microfluidic device for monitoring cell migration in 2D environment
4	Veronika Dillingerová	Enhancement of elemental imaging using ResNet34 based UNet with perceptual loss
5	Dušan Majtás	Stabilizing corrosion product of iron and its alloys using tannic acid solution
6	Svatava Polsterová	Phase Diagram Prediction of Ag, Au, Ni and Pt Systems
7	Pawel Szczepanik	Toward a Flexible Synthesis of Novel Forskolin Analogs
8	Vít Pavelka	Complex evaluation of Raman spectra using morphological filters: algorithms, software implementation and experimental verification of background subtraction, cosmic ray removal and peak recognition in SERS spectra of designer drugs
9	Esmail Farajpour Bonab	Fullerene-Based Switching Molecular Diodes Controlled by Oriented External Electric Fields