

Wednesday, 10th February 2021 - Microsymposium UDM3 Virtual Symposium

9:00	Introduction by the organizers	
	Session I - Chair: G. Lander	
09:05 – 9:45	Keynote talk 1 Actinide Research with Hard Synchrotron Radiation	Roberto Caciuffo <i>JRC Karlsruhe, Germany</i>
09:45 – 10:05	Anisotropic phonon line-broadening in UO ₂ below room temperature	Luigi Paolasini <i>ESRF Grenoble, France</i>
10:05 – 10:25	Tuneable Correlated Disorder in γ -(U _{1-x} Mox)	Daniel Chaney <i>University of Bristol, UK</i>
10:25 – 10:45	X-ray studies revealing the 5f electron duality in UM ₂ Si ₂ compounds	Andrea Severing <i>University of Cologne, Germany</i>
10:45 – 11:00	<i>Break</i>	
	Session II – Chair: L. Paolasini	
11:00 – 11:40	Keynote talk 2 : CANCELLED The Role of X-ray Spectroscopy in the Renaissance of Actinide Coordination Chemistry	Kasper Pedersen <i>Technical University of Denmark, Denmark</i>
11:40 – 12:00	Resonant and non-resonant inelastic x-ray spectroscopy on UO ₂	Martin Sundermann <i>University of Cologne, Germany</i>
12:00 – 12:20	URu ₂ Si ₂ : recent findings by resonant X-ray diffraction	Guillaume Beutier <i>Univ. Grenoble Alpes, France</i>
12:25 – 14:00	<i>Break</i>	

Session III – Chair: K. Kvashnina		
14:00 – 14:40	Keynote talk 3: Chemistry behind actinide colloids and nanoparticles: application to environmental behavior and nuclear waste management	Stepan Kalmykov <i>Moscow State University, Russia</i>
14:40 – 15:00	Size vs. Local Structure Relationship for ThO ₂ and PuO ₂ Nanoparticles	Matthieu Viro <i>ICSM, Univ Montpellier, France</i>
15:00 – 15:20	Probing actinide electronic structure and speciation with high energy resolution X-ray spectroscopy	Tonya Vitova <i>Karlsruhe Institute of Technology, Germany</i>
15:20 – 15:40	Extended X-ray Absorption Fine Structure and Theoretical Models to describe actinides and fission products in the nuclear fuel cycle	Thomas Dumas <i>CEA Marcoule, France</i>
15:40 – 16:00	<i>Break</i>	
Session IV – Chair: J.P. Sanchez		
16:00 – 16:30	Keynote talk 4: Electronic structure of actinide compounds as probed by advanced x-ray spectroscopy: experiment and theory	Sergei Butorin <i>Uppsala University, Sweden</i>
16:30 – 17:00	Keynote talk 5: Correlated Quasiparticle Dispersion and ARPES Spectra in UTe ₂	Alexander Shick <i>Institute of Physics, Czech Republic</i>
17:00 – 17:15	Conclusion	Kristina Kvashnina <i>ESRF, France</i> Gerry Lander <i>European Commission Karlsruhe, Germany</i> Jean-Pierre Sanchez <i>CEA Grenoble, France</i> Fabrice Wilhelm <i>ESRF, France</i>
17:15	End of the meeting	