



# AcE-Methods

## Tuesday 21 March 2023

### Day 2: Spectroscopy and Microscopy - 114/202 (08:45 - 17:05)

time	[id] title	presenter
08:45	[12] Arrival and coffee	
09:00	[14] Plenary lecture: SOME APPLICATIONS OF RAMAN SPECTROSCOPY IN THE NUCLEAR FIELD	MERMOUX, Michel
09:45	[15] BONDING PROPERTIES OF URANIUM CARBONATE SPECIES IN LIQUID AND SOLID STATE IN MULTIPLE OXIDATION STATES STUDIED BY U M4-EDGE HIGH RESOLUTION X-RAY SPECTROSCOPY	VOLLMER, Christian
10:05	[16] CATION-DRIVEN PHASE SEPARATION IN INTERNALLY GELATED (U <sub>1</sub> -ZCEZ)O <sub>2</sub> ±X MICROSPHERES, WITH Z={0.05, 0.10, 0.15, 0.20, 0.25, 0.30}, OBTAINED VIA A CE(NO <sub>3</sub> ) <sub>3</sub> PRECURSOR	UYGUR, Selim
10:25	Coffee	
11:00	[17] Plenary lecture: ELECTRON MICROSCOPY TECHNIQUES: WHEN A MICROGRAPH IS WORTH A 1000000x WORDS	BULGHERONI, Antonio
11:45	[18] LUMINESCENCE SPECTROSCOPY AND DIFFRACTION STUDIES OF ZIRCONIA SOLID PHASES CONTAINING CERIUM	BRAGA FERREIRA DOS SANTOS, Luiza
12:05	[19] INVESTIGATION OF THE STRUCTURAL INCORPORATION OF DOPANTS INTO URANIUM OXIDES	POTTS, Shannon
12:25	Lunch	
13:45	[20] Lab tour	
15:15	[21] SPECTROSCOPIC ANALYSIS OF MIXED ACTINIDE OXIDES BY AN M4,5 EDGE HIGH ENERGY RESOLUTION XANES (HR-XANES) IN BULK- AND NANO-MATERIALS	PALINA MÜLLER, Natalia
15:35	[22] MODEL SYSTEM STUDIES OF ADVANCED (SPENT) NUCLEAR FUEL MATERIALS	MURPHY, Gabriel
15:55	Coffee	
16:15	[23] Plenary lecture: Thermodynamics and dissolution	GAONA, Xavier
17:00	End of presentations day 2	