



RIO18
21st World Congress
of Soil Science

21 WORLD CONGRESS OF SOIL SCIENCE
Sunday 12 – Friday 17 August 2018
Rio de Janeiro, Brazil

Rio de Janeiro August | 12 - 17

DIVISIONAL SIMPOSIUM – DIVISION 2

Thursday (Aug, 16)		Room “Capri I”	
C2.4.2		New techniques for advanced mineral studies	
		Convener: Dr. Sheila Furquin, UNIFESP, São Paulo, Brazil.	
		Co-Convener: Dr Balwant Singh, Australia	
Schedule	ID	Title	Presenter
15:30 – 15:40	--	Opening	Conveners
15:40 – 15:55	311	Advances in the Use of Small Spatial and Temporal Scale Synchrotron-Based Techniques to Elucidate Soil Mineral Reactivity	Donald L. Sparks
15:55 – 16:10	1737	Nano-scale secondary ion mass spectrometry (nano-SIMS) images can differentiate organo-mineral complexes and associated carbon preservation in a Chinese red soil	Xinhua He
16:10 – 16:25	599	Unraveling soil clay mineralogy with X-ray diffraction: Advances and perspectives	Bruno Lanson
16:25 – 16:40	560	Scanning Transmission Electron Microscopy (STEM) Analysis of Arsenic on Soil Particles	Dean Hesterberg
16:40 – 16:55	1578	Microfluidic Investigation of the Surface-Controlled Properties of Soil Constituents	Thomas C. Close
16:55 – 17:10	872	High-throughput full pattern fitting of soil X-ray powder diffraction data	Benjamin Butler
17:10 – 17:25	2183	Differential X-ray diffraction in traceability of Cannabaceae family plants.	Jessica Souza de Oliveira
17:25 – 17:40	1941	Transformations in mineralogy of alkaline-sodic soils in the Northern Pantanal	Jairo Calderari de Oliveira Junior
17:40 – 17:55	--	Closing	Conveners



International Union of Soil Sciences



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