



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

Monday (Aug, 13)		Room “Bora Bora I”	
C2.5.2		Advances in techniques to investigate soil interfaces to understand interfacial reactions	
		Convener: Dr Ladislau Martin-Neto, Embrapa Instrumentação, São Carlos, Brazil.	
		Co-Convener: Dr Siobhán Staunton, INRA, Montpellier, France.	
Schedule	ID	Title	Presenter
15:30 – 15:40	--	Opening	Conveners
15:40 – 15:55	Invited	<i>Laser-induced Breakdown Spectroscopy-LIBS: novel methods for soil analysis</i>	Débora Milori
15:55 – 16:10			
16:10 – 16:25	226	Interaction of organic molecules with reactive soil interfaces - molecular modeling and simulation	Martin H. Gerzabek
16:25 – 16:40	744	Long-term continuous phosphate fertilization on phosphorus speciation in an Oxisol under no-till evaluated by P-XANES	Joao Arthur Antonangelo
16:40 – 16:55	2187	Soil Chip-XPS integrated technique to study formation of soil biogeochemical interfaces	Jinshui Wu
16:55 – 17:10	2474	Synchrotron-Based Techniques for Determining Phosphorus Speciation in Soils	Audrey Gamble
17:10 – 17:25	1156	Travelling across scales - application of hyperspectral imaging and NanoSIMS to investigate nutrient distribution in soil	Eleanor Hobley
17:25 – 17:40	1313	Nanoscale distribution and speciation of organic carbon in temperate and permafrost soils	William E. Dubbin
17:40 – 17:55	274	Enhanced Hydroxyl Radical Formation Induced by Smectite Clays and Polyphenols Interactions	Juan Gao
17:55 – 18:10	260	Assessing impact of near-surface wind speed conditions on horizontal pore gas velocity profiles in wind-exposed porous media	Tjalfe Poulsen
18:10 – 18:15	--	Closing	Conveners



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