



**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 1

Friday (Aug, 17)		Room "Aruba II"	
<b>C1.5.2</b>		<b>Crucial techniques for the critical zone: Soil morphometrics, monitoring &amp; modeling</b>	
		<b>Convener:</b> Peter Finke, Universiteit Gent, Gent, Belgium	
		<b>Co-Convener:</b> Alfred HarteminkUW-Madison, Madison, WI, USA	
Schedule	ID	Title	Presenter
13:30 – 13:40	--	Opening	Conveners
13:40 – 13:55	651	A tale of two CZ's: Contrasting shallow and deep human-environmental dynamics	Zachary Brecheisen
13:55 – 14:10	1913	Accurate prediction of soil reaction (pH) and sum of basis through portable X-ray fluorescence (pXRF) spectrometer in tropical soils	Sérgio Henrique Godinho Silva
14:10 – 14:25	476	Coupling Dynamic Soil Property Field Studies and Modeling for U.S. Soil Survey	Candiss O. Williams
14:25 – 14:40	1528	Digital mapping of soils from a microbasin representative of the soils of the Rio Preto Basin Federal District	Marilusa Pinto coelho Lacerda
14:40 – 14:55	2855	Monitoring and modeling of Russian chernozem soil fertility	Nadezda Vasilyeva
14:55 – 15:10	764	Untangling of spatio-temporal soil processes at different scales through Fourier-based and state-space analysis	Ole Wendroth
15:10 – 15:25	1511	Images classification for digital soil mapping in Roraima, North Amazônia	Nicoló Clemente
15:25 – 15:40	1119	Simulating soil formation in a Mediterranean watershed with the new MILESD2 - the importance of spatially-explicit soil water dynamics	Tom Vanwalleghem
15:40 – 15:55	--	Closing	Conveners



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