



**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 SYMPOSIUM – DIVISION 4

Thursday (Aug, 16)		Room “Ilha Bela II”	
<b>C4.2.3</b>		<b>Soil quality to secure human and environmental health</b>	
		<b>Convener:</b> Ganga Hettiarachchi, Department of Agronomy, Throckmorton Plant Sciences Center, Kansas State University, Manhattan, USA	
		<b>Co-Convener:</b> <a href="#">Margareth Simões</a> , Brazilian Agricultural Research Corporation (Embrapa), National Research Center for Soils, Rio de Janeiro, Brazil	
Schedule	ID	Title	Presenter
15:30 – 15:40	--	Opening	Conveners
15:40 – 15:55	1190	Changes in soil attributes promoted by wastewater reuse in a rural community in Brazil	Jerusa Schneider
15:55 – 16:10	1986	Ecological assessment of petroleum contaminated soils (Sakhalin Island) using ecological functions	Ekaterina Kovaleva
16:10 – 16:25	733	Soil demand for ensuring food security: a case study for Austria	Andreas Baumgarten
16:25 – 16:40	463	Managing Soil Health for Improving Human Health	Rattan Lal
16:40 – 16:55	289	Long-term Effect of Different Fertilization and Cropping System on the Persistence of Antibiotic Resistance Genes in Soil Measured using Highly Parallel qPCR and sequencing	Fang Wang
16:55 – 17:10	469	Effect of biochar on Cd bioavailability in soil-rice systems and human health implication based on a meta-analysis	De Chen
17:10 – 17:25	958	Prioritizing Biophysical and Socioeconomic Factors for Enhancing Soil Fertility in Sub-Saharan Africa: Summit Results	P.V. Vara Prasad
17:25 – 17:40	1081	Prioritizing Biophysical and Socioeconomic Factors for Enhancing Soil Fertility in Sub-Saharan Africa: Survey Results	Zachary P. Stewart
17:40 – 17:55	1590	Efficiency of biodegradable and pH-responsive polysuccinimide nanoparticles (PSI-NPs) as smart nano-delivery systems to enhance fertilizer/pesticide efficacy	Xiaoping Xin
17:55 – 17:40	--	Closing	Conveners



**Brazilian Soil Science Society**



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