



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 3

Monday (Aug, 13)		Room “Galápagos II”	
C3.3.11		Biochar for soil fertility management	
		Convener: Scott Chang, Department of Renewable Resources, University of Alberta, Edmonton, Alberta, Canada. E-mail: sxchang@ualberta.ca	
		Co-Convener:	
Schedule	ID	Title	Presenter
15:30 – 15:40	--	Opening	Conveners
15:40 – 15:55	364	Ameliorating effects of designer biochars in a hard-setting subsoil layer: soil fertility and plant biomass	Gilbert C. Sigua
15:55 – 16:10	374	Nano biochar: formation processes, carbon stability, and colloidal behavior	Baoshan Xing
16:10 – 16:25	531	Biochar for long-term food security in smallholder farms in Kenya	Thomas Kätterer
16:25 – 16:40	590	Biochar and bacterial manure additions promote nitrogen uptake efficiency by decreasing fertilizer nitrogen loss and increasing soil bacterial abundance and diversity	Linzhang Yang
16:40 – 16:55	729	Opportunities for biochar use in low-input agricultural systems	Vimala D Nair
16:55 – 17:10	1019	Anthropogenic charcoal-rich soils of the xix century reveal that biochar leads to enhanced fertility and fodder quality of alpine grasslands	Cristina Martinez
17:10 – 17:25	1445	Biochar impregnated with magnesium increases phosphorus adsorption with potential to be used as fertilizer	Leônidas Carrijo Azevedo Melo
17:25 – 17:40	2388	Effect of biochar and nitrogen on wheat yield and soil quality	Ishaq Ahmad Mian
17:40 – 17:55	1210	Micron-scale pore structure of willow biochar modify soil moisture characteristics	Kimmo Rasa
17:55 – 18:10	1545	Eucalyptus biochar soil fertility and corn yield on a long-term field experiment	Isabella Menuzzo Lucon
18:10 – 18:15	--	Closing	Conveners



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