

‘Carbon Sequestration for Climate Change Mitigation’ Session at the 5th International Rice Congress – A Joint Session Organized by IRRI and “4 per 1000” Initiative

Oct 15, 2018; 14:30 – 18:00 H

Orchid Rm4204, Sands Expo and Convention Centre, Singapore

Program

Time	I. Plenary Talks (20 min each) – 1.5 hour	Moderated by Ole Sander
14:30 – 14:50	Promoting Carbon Sequestration in Soils: the 4 per 1000 Initiative	J.K. Ladha, University of California, Davis
14:50 – 15:10	Soil Carbon Sequestration to Enhance Food Security and Mitigate Climate Change - a Viable Option for Rice Soils	Cornelia Rumpel, Institut d'Ecologie et des Sciences de l'Environnement Paris (IEES)
15:10 – 15:30	Carbon Emission Reduction in Rice Agriculture: Challenges and Opportunities	Pan Genxing, Nanjing Agriculture University
15:30 – 15:50	IRRI’s Program on Managing Soil Carbon in Rice Soils	Pauline Chivenge, IRRI Philippines
15:50 – 16:00	Discussion	
	Coffee and tea break	
	II. Rapid Fire Talks (5 minute each) – 1 hour	Moderated by Pauline Chivenge
16:30 – 16:35	Designing Carbon Positive Intensive Cereal Systems in South Asia	M.L. Jat, CIMMYT India
16:35 – 16:40	Potential of C sequestration in relation to CH ₄ mitigation and possible trade-offs	Kazuyuki Inubushi, Chiba University Japan
16:40 – 16:45	Estimating greenhouse gas mitigation potential in paddy rice production based on model simulation and carbon footprint approach	Kun Cheng, Nanjing Agriculture University
16:45 – 16:50	High nitrous oxide fluxes under reduced flooding conditions indicate need to co-manage water and nitrogen at rice farms	Kritee K, Environmental Defense Fund
16:50 – 17:00	Discussion	
17:00 – 17:05	Effect of rice Straw management on GHG emissions according DNDC model in a Mediterranean wetland	Jose M. Osca, Universitat Politècnica de València
17:05 – 17:10	Enhancing the DNDC crop model for reliable prediction of rice production and environmental footprint.	William Salas, Applied Geosolutions, LLC
17:10 – 17:15	Do existing crop models simulate soil processes adequately for soil health and climate change mitigation applications?	Upendra Singh, International Fertilizer Development Center

17:15 – 17:20	Implementation of Alternate Wetting and Drying (AWD) system in European rice cultivation: methane mitigation and impacts on grain yield	Maite Martínez-Eixarch, IRTA-Aquatic Ecosystems
17:20 – 17:30	Discussion	
17:30 – 18:00	III. General Discussion – research gaps, future directions on SOC in rice based cropping systems – 30 min	Moderated by J. K. Ladha
	a) What are the research gaps regarding SOC in rice based cropping systems? b) What are the future directions? c) Exploring possible research concepts for funding	