





3rd NiCE Summit SYDNEY

Monday, 25 September 2023

Duration: 8:30 AM - 6:00 PM

Venue: UTS (UTS Seminar Room, Building 11, Level 6, Room 408, Ultimo campus)

AEST	Speakers	Presentation title	
8:30 - 9:00	Registration		
9:00 – 10:00	Invited Speaker: Abraham Noe-Hays, Research Director Rich Earth Institute		
10:00 – 10:20	Ho Kyong Shon	Summit Introduction and NiCE hub updates	
Session 1, Urine Collection (Chaired by Cara Beal)			
10:20 – 10:30	Stefano Freguia, UOMLi Gao, South East Water	Downstream effects of urine and its conversion to liquid fertilisers	
10:30 – 10:40	Behzad Fatahi, UTSJeff Hsi, EIC	Novel Sustainable Ground Stabilisation adopting Calcium Carbonate Precipitation using Urine	
10:40 – 10:50	 Sayed Iftekhar, Griffith Uni 	Project 01' Whole-of-system economics	
10:50 – 11:30	Questions and discussions		
11:30 – 11:50	Morning Tea		
Session 2, Urine Processing to Liquid Fertiliser (Chaired by Jason Prior)			
11:50 – 12:00	Li Gao, SEWHo Kyong Shon, UTS	NiCE Loo	
12:00 – 12:10	 Stefano Freguia, UOM Matthew Mullis, Urban Utilities and/or Adam Blunn, AJJA 	Up-scaling and field demonstration of Ugold technology	
12:10 – 12:20	Jade Jiang, UTSJing Guan, Origin water International	Nutrient recovery using membrane technology	
12:20 – 12:30	Sherub Phuntsho, UTSKyungsuk Kang, Siontech	Application of membrane capacitive deionisation (mCDI) for wastewater and urine processing	
12:30 – 13:10	Questions and discussions		







13:10 – 13:50	Lunch		
Session 3, Fertiliser Optimisation (Chaired by Stefano Freguia)			
13:50 – 14:00	 Bernadette McCabe, UniSQ Durell Hammond, Pyrocal 	Loganholme Biosolids Gasification Project	
14:00 – 14:10	Mikel Duke, VUBahay Ozcakmak, Parkway Limited	An integrated water treatment process for valuable nutrient recovery and purification from industrial waste streams	
14:10 – 14:20	 Liu Ye, UQ Clare Idriss, Icon water Peter Wardrop, Melbourne water 	Evaluating the impact of sustainable nitrogen management on carbon footprint	
14:20 – 14:30	Dana Cordell, UTSJason Prior, UTS	NiCE Governance and Perceptions/IH21.UTS.1 Governance for a thriving circular nutrient value chain: An integration study	
14:30 – 15:10	Questions and discussions		
15:10 – 16:00	"Afternoon Tea with Action!"		
	While enjoying a delicious afternoon tea, NiCE summit attendees will participate in a short activity to identify the main drivers, needs, and barriers for implementing a Urine-based Fertiliser Circular Ecosystem.		
Session 4, Fertiliser End-Use (Chaired by Jeff Powell)			
16:00– 16:10	Leonard Tijing, UTSNeil Palagedara, City of Sydney	Test applications of Urval fertiliser for urban parklands and green walls	
16:10 – 16:20	Dana Cordell, UTSJason Prior, UTSGary Leeson, OCP	NiCE Markets and Perceptions/IH21.OCP.1 Circular markets for a thriving circular nutrient value chain: A market feasibility and perception study	
16:20 – 16:30	 Jeff Powell, WSU Jason Reynolds, WSU	Fertiliser end-use – behaviour in soil interactions with plants	
16:30 – 16:40	Ibrahim El Saliby, UTSJuan Lucas (RBG Sydney)	Applying and studying the effect of human urine nutrient solutions on plant growth	
16:40 – 16:50	 Bernadette McCabe, UniSQ 	Evaluation and demonstration of Ugold and Urval efficacy in field trials	
16:50 – 17:20	Future plan and closing remarks		
17:20 - 18:00	Social networking drinks, all are invited		