





## 4<sup>th</sup> NiCE Summit SYDNEY

Date: Wednesday, 2 October 2024

**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: Prof Jaeweon Cho, Ulsan National Institute of Science and Technology		
10:00 – 10:20	Ho Kyong Shon     S	Summit Introduction and NiCE hub updates	
Session 1, Urine Collection (Chaired by Stefano Freguia)			
10:20 – 10:30	<ul><li>Stefano Freguia, UOM (presenter)</li><li>Li Gao, South East Water</li></ul>	Downstream effects of urine and its conversion to liquid fertilisers	
10:30 – 10:40	<ul><li>Behzad Fatahi, UTS</li><li>Jeff His, EIC</li></ul>	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	<ul> <li>Ho Kyong Shon, (presenter) UTS</li> <li>Li Gao, SEW</li> </ul>	NiCE Loo	
12:00 – 12:10	<ul> <li>Stefano Freguia, UOM (presenter)</li> <li>Matthew Mullis, Urban Utilities</li> <li>Adam Blunn, AJJA</li> </ul>	Up-scaling and field demonstration of Ugold technology	
12:10 – 12:20	<ul><li>Sherub Phuntsho, UTS</li><li>Jing Guan, Origin water International</li></ul>	Nutrient recovery using membrane technology	
12:20 – 12:30	Qilin Wang, UTS	Achieving Nitrite Shunt for Mainstream Sewage Treatment Using Human Waste	
12:30 – 13:10	Questions and discussions		







13:10 – 13:50	Lunch	
Session 3, Fertiliser Optimisation (Chaired by Stefano Freguia)		
13:50 – 14:00	<ul> <li>Bernadette McCabe, Serhiy Marchuk (presenter, zoom), UniSQ</li> <li>Durrell Hammond, Pyrocal</li> <li>Joanne Hulley, Logan City Council</li> </ul>	Loganholme Biosolids Gasification Project
14:00 – 14:10	<ul> <li>Mikel Duke, VU (presenter)</li> <li>Bahay Ozcakmak, Parkway</li> <li>Limited</li> </ul>	Unique solution-membrane chemistries during membrane distillation of complex industry wastewaters for circular economy applications
14:10 – 14:20	<ul> <li>Liu Ye, UQ (pre-recorded)</li> <li>Clare Idriss, ICON Water</li> <li>Peter Wardrop, Melbourne Water</li> </ul>	Evaluating the impact of sustainable nitrogen management on carbon footprint
14:20 – 14:30	<ul> <li>Jordan Roods, UTS (presenter)</li> <li>Jason prior and Dana Cordell, UTS/ISF</li> </ul>	What governance model should we adopt for a thriving circular nutrient economy? A review
14:30 – 15:10	Questions and discussions	
15:10 – 16:00	Afternoon Tea and Microbial health risk scoping workshop by Johanna Engels (PhD Candidate) and Prof Anne Roiko, Griffith University	
Session 4, Fertiliser End-Use (Chaired by Jeff Powell)		
16:00- 16:10	<ul><li>Leonard Tijing, UTS (presenter)</li><li>Neil Palagedara, City of Sydney</li></ul>	Test applications of Urval fertiliser for urban parklands and green walls
16:10 – 16:20	<ul> <li>Kerry Tozer, UTS (presenter)</li> <li>Jason Prior and Dana Cordell, UTS/ISF</li> <li>Gary Leeson, OCP</li> </ul>	What drives a thriving circular nutrient value chain? A review
16:20 – 16:30	<ul><li>Niraj Yadav, WSU (presenter)</li><li>Jeff Powell, WSU</li><li>Jason Reynolds, WSU</li></ul>	Effects of Urval dose on growth and survival of two pasture species
16:30 – 16:40	<ul> <li>Ibrahim El Saliby, UTS</li> <li>Juan Lucas (Presenter), RBGSYD</li> </ul>	Applying and studying the effect of human urine nutrient solutions on plant growth, <i>Viola x Wittrockiana</i>
16:40 – 16:50	<ul> <li>Bernadette McCabe and Serhiy Marchuk (presenter, zoom), UniSQ</li> </ul>	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	







## Thank you to our partners



























































