

Program

9.00am – 9.30am	Tea and coffee upon arrival
9.30am – 9.40am	Professor Damien Field Director, Sydney Institute of Agriculture Welcome and Introduction
Session 1	
9.40am – 10.55am	Professor PJ Cullen Professor of Chemical Engineering, University of Sydney Flipping Nitrogen: Why Fertiliser May Become the World's Largest Renewable Manufacturing Industry
	Dr Yijia Tang Research Associate, University of Sydney Credit-Ready Soil Carbon in a Single Push: A Multi-Sensor Penetrometer for Net-Zero Agriculture
	Professor Luciano Gonzalez Professor and Chair in Sustainable Livestock Production (Nancy Roma), University of Sydney Recent, ongoing and future directions towards net-zero livestock production
	Dr Faysal Mehedi Hasan Research Assistant, University of Sydney Data-driven feedbase and grazing management to support sustainable beef systems
	Takuma Koyama PhD Candidate, University of Sydney Soil organic carbon decomposition and replenishment by plant roots: A meta-analysis
	Dr Farhad Masoomi-Aladizgeh Postdoctoral Research Associate, University of Sydney Molecular responses of wheat to heat stress: implications for climate-resilient crops
	Questions Slido # 3913138 Chaired by Professor Damien Field
Morning Tea – 15 minutes	
Session 2	
11.15am – 12.20pm	Dr Mikaela Tilse Postdoctoral Research Associate, University of Sydney Precision agriculture for sustainable grain systems: insights from nitrogen, grain quality, and emissions research
	Professor Willem Vervoort Professor Professor in Hydrology and Catchment Management, University of Sydney Testing landscape rehydration to deliver nature positive pasture systems

	<p>Associate Professor Tom Roberts Associate Professor of Food Chemistry and Biotechnology, University of Sydney <i>From Country to Laboratory: Structure and Biochemistry of Native Australian Grains</i></p> <p>Dr Nicolas Francos Postdoctoral Researcher, University of Sydney <i>The global pedogenon map: Combining and spatialising the factors of soil formation</i></p> <p>Dr Peipei Xue Postdoctoral Research Fellow, University of Sydney <i>Soil Metagenomes to Accelerate the Transition to 3N Agriculture</i></p> <p>Yutong Fu PhD Candidate, University of Sydney <i>Evaluation of reduced soybean meal diets based on different cereal grains for sustainable broiler production</i></p> <p>Questions Slido # 3913138 Chaired by Professor Damien Field</p>
12.20pm - 1.00pm	<p>Panel Discussion</p> <p>Professor Carolyn Hogg Professor of Biodiversity and Conservation, University of Sydney</p> <p>Professor Alex McBratney Professor of Digital Agriculture and Soil Science, University of Sydney</p> <p>Samuel Miller Principal Economist, NSW Farmers Association</p> <p>Professor Ruth Zadoks Professor of Production Animal Health, University of Sydney</p> <p>Chaired by Professor Damien Field Director, Sydney Institute of Agriculture</p> <p>Questions Slido # 3913138</p>
1.00pm – 2.00pm	Lunch and networking