WORKSHOP PROGRAM

TUESDAY 2 JULY

Venue: Level 2, 308 Queen Street, Brisbane City 4000

TIME	ACTIVITY
	Master of Ceremonies Professor Rick Valenta, Director, Sustainable Minerals Institute, UQ
8:45–9am	Registration
9–9:05am	**Welcome Address** Professor Rick Valenta, Director, Sustainable Minerals Institute, UQ
9:05–9:40am	**Presentation on strategic grant project group** Professor Karen Hudson-Edwards, Professor in Sustainable Mining, Exeter Associate Professor Steven Micklethwaite, Program Leader, Resourcing Decarbonisation and Director UQ Drone Collaborative Research Platform, UQ **Economic Benefits from Reducing Mine Waste: The Case of Ore-Sand** Dr Juan Soto-Diaz, School of Economics and Sustainable Minerals Institute, UQ
9:40–11am	**Grant Writing: Tips and Tricks** Dr Emma Livingstone, Senior Manager (Pre-Award), Research Office, UQ **Theme Leaders and Thesis Advisors Meeting**
11–11:30am	Morning Tea Break

PAPER SESSION 1 GLOBAL ENVIRONMENTAL FUTURES

TIME	ACTIVITY
11:30–12:15pm	**Lead:** Rebecca Hall, Centre for Water and Environmental Biotechnology, UQ **Moderator:** Professor Stu Bearhop, Associate Pro-Vice Chancellor (Global), Exeter **How much water and energy do you waste while showering?** Rebecca Hall, Centre for Water and Environmental Biotechnology, UQ **Development of a Stochastic Hailstorm Model for Australia** Lakshmi Kalavappilly Saja, School of Civil Engineering, UQ **Analysis of the Scouring Process using CFD-DEM** Saugat Shrestha, School of Civil Engineering, UQ **Maximizing the benefits of desalinated seawater supply networks for agricultural sustainability** Babak Zolghadr-Asli, Sustainable Minerals Institute, UQ and The Centre for Water Systems, Exeter
12:15–12:25am	Short Break

PAPER SESSION 2 DIGITAL WORLDS AND DISRUPTIVE TECHNOLOGIES AND MINERAL SECURITY AND SUSTAINABILITY

12:25–1:10pm

Lead: Ediana James, PhD Candidate, Business School, UQ
Moderator: Dr Mashhuda Glencross, Senior Lecturer in Computer Science, School of Electrical Engineering and Computer Science, UQ

The Art of Cyber War: Applying Sun Tzu's Principles to Cybersecurity for Defending Against Large Language Models and Deepfake Technology
   Ediana James, PhD Candidate, Business School, UQ
Audio as a sensor: novel approaches to process and condition monitoring in wastewater systems
   Jess Holland, Australian Centre for Water and Environmental Biotechnology, UQ
Modelling Energy Complementarities Driving Clean Energy Technology Adoption Through Tipping Points
   Carlos Gomes, School of Electrical Engineering and Computer Science, UQ
Drones 4 waste: Beyond-visible insight for decision making
   Andres Ortega Lucero, Sustainable Minerals Institute, UQ

1:10–2pm — Networking Lunch

PAPER SESSION 3 HEALTHY LIVING

2–2:45pm

Lead: Madeline Eve, Queensland Brain Institute, UQ
Moderator: Associate Professor Nicholas Gilson, Associate Professor, School of Human Movement and Nutrition Sciences, UQ

Investigating the Molecular Basis of APP Interacting Proteins in Alzheimer's Disease.
   Madie Eve, Queensland Brain Institute, UQ
Phage-Antibiotic Synergy In Burkholderia.
   Samuel Kraus, Centre for Clinical Research UQ and Living Systems Institute, Exeter
Wastewater-based epidemiology for antimicrobial resistance surveillance.
   Pooja Lakhey, Queensland Alliance for Environmental Health Sciences, UQ
Sleep and cerebrovascular function at different life stages.
   Alice Lester, Institute for Social Science Research, UQ and Department of Public Health and Sport Sciences, Exeter

2:45–3:30pm	General Afternoon Tea	PhD Candidates Afternoon Tea
3:30–5pm	What do Entrepreneurs and Researchers have in common? Dr Veronica Nolan, Senior Manager, Entrepreneurship, UQ	Theme Leaders Meeting
5–5:50pm	Networking	
5:50pm	Event concludes	