RMIT UNIVERSITY

International Relations
International & Development

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RMIT UNIVERSITY: SUMMARY OF WATER CAPABILITIES

College of Science, Engineering and Health (10 Schools)

WETT Research Centre	• Water resources and management and water quality monitoring (design of systems and methods to improve management of the quantity, quality and distribution of water whether it be potable, ground, waste or storm water; environmental impacts are also covered) • Water and wastewater treatment (drinking water, industrial and municipal wastewater, and water recycling) • Biosolids and bioenergy (safe and sustainable application of organic sludges arising from wastewater treatment processes) • See www.rmit.edu.au/research/wett
Professor Felicity Roddick	• Potable and waste water treatment via physical, chemical and biological means, and combinations of these • Removal of organic matter • Advanced oxidation processes and membrane processes
Dr. Maazuza Othman	• Simulation and modelling, performance evaluation and optimisation of wastewater treatment plants • Water recycling and on-site wastewater treatment • Evaporation enhancement
Dr. Matthew Currel	• Groundwater recharge history and palaeohydrology • Controls on groundwater quality & hydrogeochemical evolution • Environmental isotopes in hydrogeology • Groundwater-surface water interaction • Groundwater contamination
Dr. Duncan Rouch	• Microbial safety in wastewater treatment • Biofilms • Protein structure and function
Dr. Nicky Eshtiaghi	• Rheology • Granulation process • Waste water treatment
Professor Dayanthi Nugegoda	• Ecotoxicology • Environmental biology with a focus on aquatic ecotoxicology, pesticides, trace metals, Endocrine Disrupting Chemicals (EDCs), cyanobacterial toxins and their effects on fish and invertebrates. • Biomonitoring of environmental contamination using fish and invertebrates in water and earthworms in soil. • Effect of dry-land salinity on freshwater ecosystems. • Bioremediation of metal contaminated and salinised sites • Minimising nutrient pollution from aquaculture and evaluating water quality with a focus on reclaimed and recycled water

Dr. Linhua Fan	• Drinking Water and Wastewater Treatment • Wastewater Reclamation • Membrane Technology • Advanced Oxidation Processes • Biofouling in reverse osmosis desalination systems • Waste minimisation/resource recovery in chemical and food processes
Dr. Nira Jayasuriya	• Water engineering • Water and wastewater management • Stormwater management
Dr. Rajarathinam Parthasarathy	• Fundamental hydrodynamic analysis and modelling of anaerobic digesters • Improving the mixing efficiency of anaerobic digesters
Professor Paul Slatter	• Pumping and pipe flow of thickened sludge • Sheet flow of thickened sludge in drying pans
Dr. Sergei Schreider	• Water pricing models / water resource modelling • Mathematical economics • Water allocation models

College of Design and Social Context (8 Schools)

Professor Michael Buxton	• International environmental law and its impact on national policy • Local government planning and water conservation
Professor John Fien	• Water education and training • Water conservation and household behaviour • Facilitating voluntary water stewardship groups • Capacity building for water management • Public participation in water quality monitoring and management
Associate Professor David Mercer	• Natural resource management • Water conservation and policy • Sustainable urban water systems
Dr. Sarah Bekessey	• Environmental decision analysis
Dr. Joe Hurley	• Sustainable water systems • Reducing urban water consumption • Water conservation and household behaviour
Dr. Ascelin Gordon	• Risk and decision-making for water conservation • Market-based instruments for conservation • Agent-based modelling for water management
Dr. Beau Beza	• Water-sensitive urban design

Ms Katelyn Samson	• Social learning for water conservation
Dr. Melissa Neave	• Water as an agent of landscape change – runoff and erosion processes • Physical role of rivers – hydrology and hydraulics

College of Business (6 Schools)

Dr. Jonathan Boymal	• Environmental economics • Water resources in the Middle East (Lebanon, Syria, Israel)

This summary has been prepared by the International Relations Office of RMIT University.

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