

Seminar Series

Alternative water schemes – managing whole of life cycle costs

Venue: SA Water House
Level 1, 250 Victoria Square
Adelaide

Date: Wednesday, 29 March 2016

Registration: 1.30 pm

Time: 2.00-4.00pm

Overview

With several metropolitan Adelaide councils currently operating alternative water schemes to either meet the irrigation supply needs of their parks and recreational assets or as a service provider to other organisations and groups, many are looking for efficiencies in how they maintain and operate their systems. This seminar explores optimisation of pumping operations to minimise energy consumption; the nature, frequency and costs of operating and maintaining alternative water; end of life asset renewal; performance and reliability of systems to deliver water of suitable quality for aquifer injection and associated monitoring requirements and cost, system sustainability and any risks to current funding models.

Presenters

[Prof. Angus Simpson](#), University of Adelaide

[Dr Angela Marchi](#), University of Adelaide

[Bruce Naumann](#), City of Salisbury

Program

Time	Topic	Who
1:30pm	<i>Registration</i>	
2:00pm	Welcome and introductions	Mellissa Bradley Water Sensitive SA
2:05pm	Integrated optimisation of pump operations in systems with a variety of alternative water sources	Prof. Angus Simpson Dr Angela Marchi
2:50pm	The grass is greener in Salisbury	Bruce Naumann City of Salisbury
3:30pm	<i>Refreshments</i>	
4:00pm	<i>Close</i>	

For more information, contact Mellissa Bradley, Program Manager, Water Sensitive SA – mellissa@watersensitivesa.com, 0431 828 980.



About the presenters

Professor Angus Simpson

Angus R. Simpson is currently a Professor in the School of Civil, Environmental and Mining Engineering at the University of Adelaide. He has been at the University of Adelaide for 30 years. He completed his undergraduate degree in Civil Engineering at Monash University, a Masters at Colorado State University and a PhD in hydraulics at the University of Michigan, Ann Arbor, USA. His research interests include planning, design and operation of water distribution system infrastructure – including: 1) condition assessment of water distribution systems; 2) optimisation of the design and operation of water distribution and pumping systems; and 3) steady state computer simulation analysis of water distribution systems. He has written over 250 publications.

Dr Angela Marchi

Angela Marchi is a Lecturer and Researcher in the School of Civil, Environmental and Mining Engineering at the University of Adelaide. She completed her degree in Civil Engineering and Ph.D. in hydraulics at the University of Bologna (Italy) in 2009. Since then, her main research interests are the optimisation of the design and operation of water distribution systems and the simulation of these systems. In the last two years, she has worked on the subproject C5.1 (Intelligent Urban Water Networks) of the Cooperative Research Centre (CRC) for Water Sensitive Cities, developing a multi-objective optimisation software for systems that use alternative water sources.

Bruce Naumann

Bruce has a Bachelors degree in Mechanical Engineering from the University of Queensland and completed post-graduate studies in Environmental Management at the University of SA.

His initial experience was as a project engineer in the mining and minerals processing industries for 7 years prior to joining Michell, Australia's largest wool processor. As Environmental Manager for Michell, he initiated and implemented a program of cleaner production that resulted in significant reductions in water and energy usage. This included initiating the innovative industry/government partnership that produced the Parafield Airport Managed Aquifer Recharge (MAR) project, a very successful large-scale urban stormwater harvesting scheme.

A two-year contract with the SA Environment Protection Authority (EPA) followed, before he joined the City Projects Team at the City of Salisbury. He currently leads a small, hard-working team in the implementation of new stormwater harvesting projects and the construction of an extensive recycled water piping network throughout the City of Salisbury. While 'growing' the commercial side of the recycled water business is our primary role, the team also supports other Council environmental initiatives and community educational activities.