

## Seminar series: Exhibition & site tour

### Permeable paving: Design through to asset renewal | Showcasing best practice

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<b>Venue:</b>	Site tour: Novar Gardens Bowling and Petanque Club carpark  Seminar: Novar Gardens Bowling and Petanque Club 489 Anzac Highway, Novar Gardens
<b>Date:</b>	27 May 2021
<b>Time:</b>	2:00 – 6:00pm
<b>Cost:</b>	\$30 – Water Sensitive SA partners, Stormwater SA members \$50 – Others

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## Overview

What is the current best practice for permeable paving systems? Hear from our guest speakers about best practice design, construction and maintenance of permeable paving systems both here in South Australia and overseas.

A site tour of the Novar Gardens Bowling and Petanque Club car park's permeable paving will set the scene for the afternoon. Following the seminar you will have a chance to meet with the suppliers of a range of permeable and porous paving products over networking drinks.

## Program

Time	Topic	Who
2:00pm	<b>Site tour: Novar Gardens Bowling and Petanque Club carpark</b> View a 10-year-old permeable paving infiltration performance and level of clogging as we view a deconstructed a section of the carpark	Andrew King City of West Torrens
2:30pm	<i>Registration – tea and coffee on arrival</i>	
2:45pm	Welcome	Mellissa Bradley
2:50pm	<b>A permeable solution for every application</b> Challenging site constraints and special applications require new solutions for pavement design and construction. Arlene Nardone will share a series of case studies from South Australia and interstate demonstrating how permeable paving can support the urban greening agenda through the protection of significant trees and working with different base materials.	Arlene Nardone Adbri Masonry
3:05pm	<b>Permeable paving: The international scene</b> In recent years, the UK and USA have moved forward in leaps and bounds in the regulation and application of permeable paving technology. Professor Simon Beecham will share examples of leading international and commercial scale projects.	Prof. Simon Beecham University of SA

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Time	Topic	Who
3:25pm	<b>Designing permeable paving: DesignPave and other essentials</b> Understanding the latest software available for the design of permeable paving systems can support greater uptake of permeable paving. James Luo will provide a demonstration of recent upgrades to DesignPave, standard design requirements for residential versus commercial developments and designing in proximity to structures.	James Luo Concrete Masonry Association of Australia (CMAA)
3:45pm	<b>Changes in permeable paving practice over 10 years</b> The role of permeable paving in the City of West Torrens projects and asset management has emerged over time. Andrew King will describe how permeable paving has been integrated into a series of Council projects using varied techniques.	Andrew King City of West Torrens
4:05pm	<b>Maintenance and renewal of permeable paving assets</b> The City of Charles Sturt recently reviewed several historical permeable paving assets. Ryan Nelson will explain how performance of these systems had altered over time and describe the actions for maintenance and refurbishment, including costs.	Ryan Nelson City of Charles Sturt
4:25pm	Plenary	All presenters
4:55pm	<i>Networking drinks and view permeable paving exhibition</i>	
6:00pm	<i>Close</i>	

### What to bring

- Hi-viz vest
- Wide-brimmed hat
- Enclosed shoes

For more information, contact Mellissa Bradley, Program Manager, Water Sensitive SA – [mellissa@watersensitivesa.com](mailto:mellissa@watersensitivesa.com), 0431 828 980.

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## Presenters



**Arlene Nardone**, Adbri Masonry

Arlene is a registered civil/structural engineer with more than 25 years' experience, and is currently employed as the National Engineering Manager at Adbri Masonry.

Arlene has been a prime contributor to developments in the masonry industry through roles such as Chair of the Concrete Masonry Association of Australia Technical Committee in 2017, and is a current member and industry representative on a number of Australian Standards committees. Arlene was a participant in research on masonry with thin-bed mortar and a modified approach to the compressive capacity of reinforced masonry, which led to changes to the provisions in AS3700.



**Prof. Simon Beecham** University of South Australia

Simon joined UniSA in 2006 and was acting Deputy Vice Chancellor: Research and Innovation from 2019-2020. From 2015 to 2018 Simon was Pro Vice-Chancellor of the Division of Information Technology, Engineering and the Environment. Before that, he was Head of the School of Natural and Built Environments (2010 - 2014) and Director of UniSA's Centre for Water Management and Reuse (2006 - 2010). Simon is a Fellow of Engineers Australia as well as a Fellow of the Australian Institute of Company Directors.

In terms of his own personal research, Simon has been awarded (as Chief Investigator) seven Australian Research Council (ARC) Discovery, Linkage and LIEF grants in the past ten years and he has three current ARC grants (full details listed under the Projects link on Simon's homepage). His research is outcome-focused and in particular he believes we need to be more sustainable in the management of our water resources. To this end, he has through his research been the author of industry available tools such as the Syfon and Switch2 software programs.



**James Luo** Concrete Masonry Association of Australia

James is a civil engineer who has been with CMAA for more than a year and he leads the CMAA Technical Team. As part of CMAA, James creates online learning modules, technical videos and develops factsheets to make it easier to build in blocks and pavers. James regularly presents to external stakeholders such as councils, engineering consultants and universities on the design and construction of concrete segmental pavements and permeable interlocking concrete pavement systems.

James is a key contributor to DesignPave, and continues to improve the software in collaboration with industry and academia. James is interested in Water Sensitive Urban Design and water quality improvement systems to help create livable urban environments.



**Andrew King** City of West Torrens

Andrew is a Civil Engineer with experience in all levels of Government and private practice, currently employed as the Coordinator Engineering Services with the City of West Torrens. He considers himself lucky to have been mentored and influenced by some of South Australia's most respected and passionate water professional and academics.

As long-standing Chair of Stormwater SA and a member of many of the stormwater reference committees, working groups and networks established over the past decade, Andrew is consistently pushing for better practices, capacity building, guidelines and legislation in relation to stormwater management, water sensitive urban design (WSUD) and related fields.

Andrew has been involved in the development of a cultural change within the City of West Torrens, to the point where this council is thought to be the most progressive inner urban council in South Australia with regards to the WSUD adoption measures. The change of daily practices in the management of the city's infrastructure has seen the city now heading towards

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the installation of 200 individual raingardens and the adoption of best practice WSUD into a substantial number of private developments through influence in the development process.



**Ryan Nelson** City of Charles Sturt

Ryan is Project Engineer – Civil & Stormwater, Engineering Strategy & Assets at the City of Charles Sturt. He has worked in civil construction for the last 15 years, and the last three at City of Charles Sturt.

Ryan's experience with permeable paving during his time with City of Charles Sturt extends to the construction of footpath and laneway projects, and the assessment of permeable paving in private development settings. He has also reviewed a number of permeable paving installations onsite to work through post-construction issues and determine paths to rectifying those issues. Ryan's team is responsible for stormwater assets decision making.

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