

WATER SENSITIVE URBAN DESIGN

Permeable Concrete Segmental Pavements

Introducing Hydraulic and Structural Pavement Software

Technical Content

Permeable concrete segmental paving was first applied in Europe almost 20 years ago. Research into permeable paving began in Australia in the early 1990s and was directed both to adapting permeable paving to suit Australian climates and rainfalls and to providing fundamental information for the design of permeable pavements to carry traffic. This work, taken in conjunction with overseas investigations, means that there is now a substantial body of information that can be used in the design and application of permeable concrete segmental pavements under Australian conditions.

The seminar begins by exploring the options for water sensitive urban pavement design. Permeable pavement systems provide sustainable options for stormwater management – flood control, water quality and water harvesting. Design criteria for these options are included in the PERMPAVE® software.

PERMPAVE® software has been developed by CMAA and the University of South Australia to provide the hydrological design inputs and requirements for concrete segmental permeable pavements incorporating storm data from “Australian Rainfall and Runoff” publication.

LOCKPAVE® software – structural design for concrete segmental pavements, is discussed. This software has recently been upgraded by Dr Brian Shackel to incorporate design procedures, methodology and material specifications for PCSPs.

NOTE: Each registrant will receive the PERMPAVE/LOCKPAVE package included in the registration fee. (RRP \$100)

Program

Seminar

- 9.00 am Introduction and Overview
Alan Pearson
- 9.10 Permeable Pavements in USA
David Smith
- 10.00 PERMPAVE® Software – An Overview
David Pezzaniti
- 11.00 BREAK
- 11.30 – 12.30 pm Paving Design – An Overview
PERMPAVE® - LOCKPAVE®
Dr Brian Shackel

Workshop

- 2.00 pm PERMPAVE® - LOCKPAVE®
Software
An in-depth tutorial on the background,
development and functional operation of
the software
David Pezzaniti
Brian Shackel
- 5.00 pm CLOSE

- Dates:** Friday 7 March 2008 Sydney
Tuesday 11 March 2008 Melbourne
Thursday 13 March 2008 Brisbane
Monday 17 March 2008 Cairns

- Times:** Seminar 9.00 am – 12.30 pm
Workshop 2.00 pm – 5.00 pm

- Venues:** Sydney
Ryde Eastwood Leagues Club
117 Ryedale Road, West Ryde
- Melbourne
Stamford Plaza Hotel
111 Little Collins Street, Melbourne
- Brisbane
Hotel Grand Chancellor
431 Wickham Terrace, Spring Hill
- Cairns
Holiday Inn
121-123 The Esplanade, Cairns



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SPEAKERS

- **Alan Pearson** BE MBA FIEAust CPEng
Executive Director, Concrete Masonry Association of Australia. A Fellow of the Institution of Engineers of Australia, Alan is a graduate in Civil Engineering from the University of New South Wales.
- **David Pezzaniti** BEng MIEAust
Technical Manager, Centre for Water Services and Systems, University of South Australia.
Senior Research Engineer specialising in water conservation and reuse. His research interests include: harvesting, treatment and reuse at all catchment scales; Integrated Institutional Frameworks; infiltration systems; irrigation systems and continuous simulation modelling for reuse. His expertise also extends to grey water reuse, hydrology and runoff pollution control.

- **David Smith**
Technical Director, ICPI - USA
Having helped launch the Interlocking Concrete Pavement Institute (ICPI) in 1993, David Smith's experience with segmental concrete pavements reaches back to 1977. He has authored many technical papers, publications, books and manuals, including one on permeable pavements. Permeable pavements are one of the fastest growing sustainable pavements in the US and Canada.
- **Dr Brian Shackel**
Visiting Professor Civil and Environmental Engineering UNSW - BEng(Civil), MEngSc in Highway Engineering, PhD. He has lectured on pavement engineering in some 23 countries worldwide and is author of many learned technical papers. His book on Concrete Block Pavements has been republished in both Japanese and German editions. Dr Shackel also developed the LOCKPAVE® concrete segmental pavement design software, now used and licensed in Australia, Europe, USA, Africa, Japan and Asia.

Continuing Professional Development (CPD)

Attendance may be credited towards Engineers Australia and other organisations' CPD requirements. (Engineers Australia members are required to undertake a minimum 150 hours of equivalent CPD every three years.)

REGISTRATION (Please return 7 days prior to the event to Concrete Institute of Australia)

I wish to attend the seminar and/or workshop on:

- | | | | |
|--|-----------|---|----------|
| <input type="checkbox"/> Friday 7 March 2008 | Sydney | <input type="checkbox"/> Thursday 13 March 2008 | Brisbane |
| <input type="checkbox"/> Tuesday 11 March 2008 | Melbourne | <input type="checkbox"/> Monday 17 March 2008 | Cairns |

Name: _____

Company: _____

Address: _____

Postcode: _____

Telephone: _____

Fax: _____

E-mail: _____

Please tick a box

- | | |
|---|-------|
| <input type="checkbox"/> Seminar Only | \$200 |
| <input type="checkbox"/> Workshop Only | \$200 |
| <input type="checkbox"/> Seminar and Workshop | \$300 |

Each registrant will receive the PERMPAVE/LOCKPAVE package included in the registration fee (RRP \$100)

- Cheque for \$ is enclosed
 Charge \$ to

- Visa MasterCard (no Amex or Diners)

Card Number: ____/____/____/____/____

Cardholder's name: _____

Expiry date: ____/____

Signature: _____

Registration fees must be paid prior to the event or at the event. Cancellations less than a week before the event will not be subject to a refund. All fees are GST inclusive – tax invoices provided on request.

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