

# Stabilisation Fundamentals

Learning: *Live Online Course* – Victorian focus

Dates: June 2, 4 (&5)

Investment: \$495.00 early bird, \$550.00 regular

Includes GST & Course Notes



Centre for Pavement Engineering Education



## course overview (2 x half days) | 2020

The use of stabilisation technology for stabilising and recycling of materials for pavement construction & rehabilitation is widely accepted as a cost-effective method of improving long term performance and reducing whole-of-life costs of modern, heavily trafficked pavements.

This course by live webinar presented in two half day packages of two sessions each will briefly review the types of stabilisation before more detailed presentations on types of binders, material characteristics, design and mix detailing, with sessions on specifying and case studies for practical outcomes. A feature of this Course is its significant practical and project-based content which aims to provide advice on road stabilisation solutions.

Overall the course will include discussion on the types of various stabilising binders used in road construction, their properties, manufacture, and chemical reactions during the stabilisation process and safety considerations associated with their use. The types of binders described are lime, cement, cementitious pozzolans, bitumen, chemical and synthetic polymers.

## topics

### PART A (Day 1 - June 2)

11.00am – 12.30pm & 1.00pm – 2.30pm (AEST)

- Setting the Scene: Types of Stabilisation Undertaken
- Binder Types (Review)
- Material Mix Design
- Structural Design of Insitu Stabilised Pavements
- Design Methodology

### PART B (Day 2 - June 4)

11.00am – 12.30pm & 1.00pm – 2.30pm (AEST)

- Stabilisation of Unsealed Roads
- Lime Stabilisation of Subgrades
- Foamed – Theory, Design & Construction
- Lessons Learnt

### WORKSHOP (Day 3 - June 5) optional 11.00 - 12.00pr

- Case Studies and a live Q&A session

### BONUS INCLUSION!

- ▶ Folder of text & PPTs to delegates prior to course. This can only be guaranteed if registration is made 5 working days prior to course start date.
- ▶ Optional Workshop

## presenters

### Bob Andrews, Principal, Infratechno Consultants

Bob has an extensive career in geotechnical and pavement engineering and now manages his own technology consultancy, Infratechno Consultants, in addition to being a Principal Engineer Research at ARRB Group. His specialist consultancy areas are in the application and performance characteristics of unbound, marginal, industrial/mining waste, recycled and stabilised materials, mechanistic pavement design/rehabilitation and strategic management of unsealed road networks.

### Scott Young: Technical Manager, SPA

Scott is a Registered Professional Civil Engineer with Honours from the University of Newcastle NSW and is currently the Technical Manager with Stabilised Pavements of Australia. Scott has been heavily involved in the stabilisation industry for almost 20 years and during that time held positions of Director, Vice President and President in Australia's national association AustStab.

Please refer to our [website](https://www.pavementeducation.edu.au/) for more details on Presenters!

Registration easily done online at <https://www.pavementeducation.edu.au/> then 'short courses'

The following Austroads Guide is used as the key reference.

### Guide to Pavement Technology

- |                                    |                               |
|------------------------------------|-------------------------------|
| Part 2: Pavement Structural Design | Part 4D: Stabilised Materials |
| Part 4E: Recycled Materials        | Part 4L: Stabilising Binder   |
| Part 6: Unsealed Pavements         | Part 7: Pavement Maintenance  |
| Part 8: Pavement Construction      |                               |



stabilisation-a recycling option!

course supported by



## who should attend

- State road agency and local government engineers and managers with responsibilities in the provision, approval, design, construction or maintenance of roads & pavements. This to also include project managers and senior supervisors.
- Consulting engineers with involvement in road and/or pavement projects.
- Road & Pavement construction contractors, engineers, project managers and supervisors.
- Local Government engineers, project managers and senior supervisors.
- Technical operatives and Engineering graduates and “cadets” looking for specialist knowledge for career development.

## CPEE professional development (CPD)

This course, with content based on the relevant CPEE postgraduate distance learning study Unit, is facilitated and delivered by recognised practitioners in the field and is of such technical content that the number of hours involved should be fully acceptable toward Continuing Professional Development (CPD) standing.

## organiser & endorsements

**Centre for Pavement Engineering and Education (CPEE):** This course is presented by CPEE, a non-profit, specialist higher education private provider (roads, pavements & infrastructure asset management), founded by AUSTROADS and the Australian Asphalt Pavement Association (AAPA). CPEE offers Graduate Certificate, Bachelor of Engineering (Honours) and Master of Technology qualifications in roads, pavement engineering and infrastructure asset management, and has formal links to the University of Tasmania.

## course size, enquiries & management

Due to its practical nature, numbers are limited for this Workshop so it is advisable that you register quickly to avoid missing out on its unique and targeted content.

## CPEE is supported by

**Austrroads:** Austrroads is the peak organisation of Australasian road transport traffic agencies. Austrroads members are the Australian state and territory road transport and traffic authorities, the Department for Infrastructure, Transport, Regional Development and Local Government, the Australian Local Government Association (ALGA), and the New Zealand Transport Agency. Austrroads members are collectively responsible for the management of over 900,000 kilometres of roads valued at more than \$250 billion representing the single largest community asset in Australia and New Zealand.

**IPWEA:** The Institute of Public Works Engineering Australasia is a professional organisation providing member services and advocacy for those involved in and delivering public works and engineering services to the community. Previously known as the Institute of Municipal Engineering Australia (IMEA), the organisation has expanded its traditional local government engineering focus to public works and thereby covering all levels of government and private practice.

**Pavement Recycling and Stabilisation Association (AustStab):** The Australian Stabilisation Industry Association is a national organisation set up to educate and inform the civil engineering industry of the environmental and economic advantages of road recycling and all types of stabilisation. Its members are contractors, binder suppliers, government road authorities and plant manufacturers.

**Roads Australia:** Roads Australia is a not-for-profit, non-political industry association. Members are drawn from all corners of the Australian road sector, and we champion the interests of a vital national asset - Australia's road transport system - and provide a forum for policy development, networking and communication. Further, we seek to draw attention to the importance of Australia's road network to the economic and social fabric of the nation, and to ensure that information and decision-making in relation to roads and road transport is well informed and reflects an appropriate level of priorities.

**Australian Society for Concrete Pavements:** The Australian Society for Concrete Pavements (ASCP) was formed in October 2007 to facilitate improvements in the design, construction & quality of concrete pavements in Australia through education, information and technology transfer, and research. Members enjoy many benefits including access to 'member only' areas of the ASCP web site, as well as discount on seminar and conference fee.

**SRAs:** State Road Agencies are responsible for the management of the road network, which includes planning, designing, construction and maintaining road use through registering vehicles, licensing drivers and traffic management, and providing information and other road user services. The SRA also provides quality assured integrated investigation, testing and design services in the pavement technology and geotechnical engineering disciplines, and provides support to CPEE in developing expertise and undertaking education in all aspects of the flexible pavements industry.

### Cancellation Policy:

- ▶ Cancellations made 10 working days or more prior to the events start date: Full refund.
- ▶ Cancellations within 9-5 working days of the event start date: 50% refund.
- ▶ Cancellations less than 5 working days of the events start date or after the event has started: No refund.

If you are unable to attend this event a substitute attendee may take your place, without penalty.

CPEE reserves the right to cancel or reschedule any course, whereby a full refund or course transfer will be provided.

### For more information:

Administration: Patricia [Patricia@pavementeducation.edu.au](mailto:Patricia@pavementeducation.edu.au)  
Content: Kym Neaylon [Kym@pavementeducation.edu.au](mailto:Kym@pavementeducation.edu.au)  
Contact: Tel: +61 3 9890 5155 [www.pavementeducation.edu.au](http://www.pavementeducation.edu.au)

