course overview (2 days) - 2019

This course will inform on the basic principles & practices involved in flexible pavement design and the program will closely follow the content in the appropriate Chapters of the Austroads Guide to Pavement Technology – Part 2: Pavement Structural Design, which is used as the principal reference and a copy is provided at the Course for each Delegate.

The materials content will however cover more information than is in the current Guide, as the selection of materials is critical to producing a road/pavement design that will deliver both structural and functional performance. Although predominately concentrating on unbound pavements, considerable time is allocated to designing bound pavements for light traffic as per Austroads Guide Chapter 12 – Design of Lightly-Trafficked Pavements.

topics

- Pavement Design Systems
- Construction & Maintenance Considerations
- Road Environment
- Subgrade Evaluation
- Unbound Pavement Materials
- Design Traffic and Case Study
- Structural Thickness of Unbound Flexible Pavements
- Design Exercise – unbound pavements
- Workshop on Unbound Pavements
- Background to Mechanistic Design of Bound Pavements
- Temperature Environment & Traffic Considerations – Bound Pavements
- Design of Bound Pavements for Lightly Trafficked Pavements
- Worked Examples & Design Exercise

NEW ERA in Pavement Design

The release of the 2017 edition of the, Austroads Guide to Pavement Technology: Part 2: Pavement Structural Design provided the most extensive update to the Guide in more than a decade and significantly changed the way in which designers develop next generation pavement engineering solutions. These changes to the Guide and the subsequent 2018 revisions have been incorporated in the course material. Don’t miss this chance to enhance your knowledge and skills!

primary presenter

Ross Paul, Director, Ross Paul & Associates (RPA)

In his career with VicRoads Ross worked in several Regions and Project Teams in various positions responsible for planning, design, construction and maintenance of roads. In 1988 he was appointed Surfacing Engineer followed in 1993 by the role of Manager - Pavement Services being responsible for leading a team for undertaking pavement investigation, design and related research and development projects. From 1998 to 2013, he was Technology Transfer Engineer responsible for implementation of new technologies and research outcomes, development and review of technical specifications, and guideline documents including provision of technical advice on most aspects of pavement technology.

Please refer to our website for more details on Presenters!

The following Austroads Guide is used as the key reference.

Guide to Pavement Technology

Part 2: Pavement Structural Design
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 course so it is advisable that you register quickly to avoid missing out. Its unique and targeted content means this course is unlikely to be offered again in this location for some time.

CPEE is supported by

Austroads: Austroads is the peak organisation of Australasian road transport traffic agencies. Austroads 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. Austroads 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 Australia 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.

SRA: 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.