

LOW VOLUME ROADS WORKSHOP



Wed 13 – Fri 15 September, 2017 – Trinity Wharf, Tauranga

IN CONJUNCTION WITH THE LOW VOLUME ROADS WORKSHOP, WE ARE PLEASED TO CONFIRM THE FOLLOWING OPTIONAL PROGRAMME FOR WEDNESDAY 13 SEPTEMBER, 2017.

If attending the two day Low Volume Roads Workshop commencing at 9.00am on Thursday 14 September, the optional programmes for Wednesday are complimentary. If not attending the two day Low Volume Roads Workshop there will be a cost of \$250 to attend the Technical Session on Dust Management. See page 2 for the full programme.

ROAD SCIENCE – SITE VISIT, 10.50AM (LIMITED TO FIRST 20 PEOPLE)

Behind the scenes with Road Science

Road Science is New Zealand's leading designer and supplier of bitumen and bitumen based products, with four accredited testing laboratories, eight asphalt and four bitumen plants through-out the country.

We are pleased to offer an hour long tour around our state of the art laboratory and manufacturing plant located in Mount Maunganui.

Our laboratory is accredited for over 200 different test methods including those that are recognised by the industry in New Zealand and offshore. It includes a full suite of expertise and equipment for asphalt, pavement, and development testing of emulsions and polymer modified binders.

The manufacturing plant is one of two critical bitumen supply facilities for Downer, the facility includes emulsion and polymer modified bitumen plants. It incorporates the latest in blending control technology and automated monitoring capabilities. Using cutting edge technology the plant produces consistent quality products to meet our customer's ever changing requirements.

Coach departs Trinity Wharf at 10.45am and returns by 12.30pm.

TECHNICAL SESSION ON DUST MANAGEMENT

TRINITY WHARF – 2.00PM – 5.00PM

Afternoon tea included

Speakers include:

- David Jones, Chair of the Transport Research Board Committee on Low Volume Roads (ARB30) USA
- Local Authority Asset Managers
- Product Suppliers
- Contractors

This session will cover the following

1. Introduction and overview of chemical treatments
2. Chemical treatment categories
3. Understanding unpaved road materials in the context of chemical treatments
 - a. Basic material tests
 - b. Determining likely performance from test results (practical exercise)
4. Selecting the right chemical treatment for a given project
 - a. Setting an objective
 - b. Selection tools (practical exercise)
5. Understanding the influence of material properties, climate, traffic, and road alignment
6. Overview of product category specifications
 - a. Procurement specifications
 - b. Environmental compatibility
 - c. Safety data sheets
7. Overview of application specifications
8. Overview of the benefits of implementing an unpaved road chemical treatment program



Take home: Workshop participants will leave with:

- A better understanding of the role of chemical and other treatments in gravel road management programs
- Tools to predict performance of an unpaved road from simple tests and an understanding of how this will influence the choice of treatment
- An understanding of the different types of treatment categories and where each can be used
- Tools to select the most appropriate treatment for a given unpaved road project
- What to consider when procuring and applying chemical and other treatments

HAPPY HOUR

5.00PM – 6.00PM AROUND THE TRADE

Includes – drinks and nibbles.
Free evening for dinner

Full programme see

www.reaaa.co.nz ■ www.roads.co.nz

For further information, contact the Organisers:
The Conference Team, PO Box 20 051, Christchurch 8543
Email: joanne@conferenceteam.co.nz
P: 03 359 2600, F: 03 359 2602

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DAVID JONES

David is Associate Director, University of California Pavement Research Centre University of California – Davis, Chair of Transportation Research Board Committee on Low Volume Roads (AFB30)

Scope: This committee is concerned with all aspects of low-volume roads including planning, design, construction, safety, maintenance, operations, environmental and social issues.

One part of David's research in low volume roads has involved the use of chemical treatments for fines preservation as part of unpaved road management programs as a means of improving all-weather passability and extending the periods between routine maintenance interventions and between regravelling exercises. David will share his considerable knowledge on this topic and many others at our workshop.



COLIN BRODIE

Colin is a Chief Advisor: Safety for the New Zealand Transport Agency. He has over 40 years' experience in road design, traffic engineering and road safety. Colin has been a member of the Austroads Safety Task Force for over 10 years, helping guide the implementation of the Safe System, and was also a member of the OECD/ITF working group for the publication of the Zero Road Deaths & Serious Injuries research report in 2016.

WEDNESDAY 13 SEPTEMBER
1045 – 1230 – Road Science site visit
1400 – 1700 – Technical session on dust
1700 – 1800 – Happy hour and free evening

THURSDAY 14 SEPTEMBER
0800 Registration / coffee
0900 Welcome Jim Hopkins / REAAA
Unpaved road chemical treatments: where are we after 110 years of use? David Jones, University of California
High speed pavement moisture measurement trials. Greg Arnold, Road Science
1030 Morning tea
1100 – Young presenters
<ul style="list-style-type: none"> • Roading from an aerial perspective. James McCallum, Southland District Council • Topic and speaker tba. Waikato District Council • Unsealed road metaling trials in the Mackenzie. Scott McKenzie, Mackenzie District Council • Pavement renewals learnings from rural New Zealand. Anthony Mason, Tararua Alliance
DOC roads – managing a remote network of roads throughout New Zealand. Brian Dobbie, DOC
1225 Networking lunch
1315 – Kaikoura Earthquake
<ul style="list-style-type: none"> • Kaikoura EQ – Inland Road. Phil Collins, Downer • A pavement engineer's perspective of the impacts of sudden change in traffic loading on low volume roads. Martin Gribble, NZ Transport Agency • Making emergency detour roads safe. Richard Rea, RoadChem <ul style="list-style-type: none"> • Local authority person – name tba
Auckland Transport Rodney dust suppression trial. Auckland Transport / Steve Browning, Downer
1500 Afternoon tea
1530 Table Topics – round the table discussions repeated
1700 Close
1900 Workshop dinner

FRIDAY 15 SEPTEMBER
0745 Registration / coffee
0830 Reflections on Thursday
Safer journeys and the safe system approach: Applicability to low volume roads Colin Brodie, NZ Transport Agency
The possibility of lower quality basecourse on much of the public road network. David Hutchison, Downer
Kaipara District Council unsealed network research project. Aidan Ford, Broadpectrum NZ and Bernard Petersen, Kaipara District Council
1015 Morning tea
1045 Stretching the budget. Doug Carrasco and Todd Mylchreest, Waikato District Alliance
Dust free, or are we? Johnny Brown, HEB
Pulling numbers out of your AARs. Murray Gimblett, NZ Transport Agency
Title tbc. Jamie McPherson, Tasman District Council
1215 Networking lunch
1300 Development of inspections for ONRC using pocket. Lee Hautler, HEB and Ben Wong, Selwyn District Council
Chatham Islands. Speaker tbc
Quantifying and managing the effect of dust discharged from unsealed roads. Jeff Bluett, Golder Associates
Malvern Hills small bridge replacement. Mark Chamberlain, Selwyn District Council
Reflections – David Jones
1440 Wrap up / close

The conference programme was accurate at the time of print however the Workshop organising committee reserves the right to amend any component as necessary. Every effort will be made to communicate any significant changes.