Melbourne, 15th July 2014

ARRB Group in association with the Australian Asphalt Pavement Association (AAPA) is pleased to present a new one-day workshop on the Bailey method for aggregate grading evaluation.

The Bailey method is a practical tool used in hot mix asphalt design and quality control. The method offers an increased understanding of aggregate packing in asphalt mixes, and as such, provides a good starting point for any mix design. Aggregate blends are evaluated by volume as well as by weight, allowing the practitioner to assess the interaction between the coarse and fine particles in the mixture.

The Bailey method was originally developed by Robert Bailey at the Illinois Department of Transportation in the 1980s. It is widely used in the USA and Canada among other countries, and is expected to bring great benefits to the industry in Australia.

The method can also be applied to assess and adjust existing mixes to improve air void content, voids in mineral aggregate and the workability (compactability) of the mix. The Bailey method makes provision for the creation of fine graded, coarse graded and stone mastic asphalt blends and the inclusion of Reclaimed Asphalt Pavement (RAP).

Course content

- Understanding the Bailey method principles
- Designing aggregate blends by volume
- Characteristics of aggregate packing in fine graded, coarse graded and SMA mixtures
- Use of the aggregate blending spreadsheets

Workshop enquiries

For further information about this course, please contact the Events Coordinator on +61 3 9881 1680, or via email training@arrb.com.au

You can also visit our website http://www.arrb.com.au/workshops

Don't forget to ‘LIKE’ us on Facebook www.facebook.com.au/ARRBGroup

Follow us on Twitter www.twitter.com.au/twitter and find us on Linked In

Who should attend

This course is designed for individuals involved in asphalt mix design, specification or quality control.

Additional information

All participants will be provided with a copy of the workshop and speaker’s notes, as well as a USB flash drive containing analysis software and reference material. Delegates will be required to bring their own laptop (with Microsoft Excel software installed on it) to the workshop. ARRB group will be unable to supply laptops.

Presenting this workshop is Dr Erik Denneman, Principal Engineer of ARRB Group Ltd.

Erik specialises in the design of road surfacing materials and has wide-ranging experience covering the design and specification of both conventional and innovative asphalt materials. Holding a BEng, a Msc and a PhD (Eng) degree, Erik has worked in The Netherlands, South Africa, the USA and Australia. Much of his work has been focussed on linking mix design properties to field performance and pavement design. The Bailey method has become a standard feature in his mix design approach and Erik has presented this one day course on numerous occasions.

ARRB Group supports the Helmets for Kids school program

ARRB is committed to the UN Decade of Action for Road Safety, and as part of our commitment, ARRB will donate $15 from every workshop registration to support the Helmets for Kids school program. For further information on ARRB’s involvement visit: http://www.arrb.com.au/News.aspx?NewsID=112

For information about the Global Helmet Vaccine Initiative visit: http://helmetvaccine.org/

Nationally recognised training

ARRB is progressively obtaining formal accreditation for many of its workshops. For further information visit: http://www.arrb.com.au/information-services/transfer-workshops.aspx

Workshop registration discount for Local Roads information package subscribers

Send four delegates for the price of three, to see if your organisation qualifies visit: http://www.arrb.com.au/information-services/New-subscription-packages.aspx#605

Engineers Australia members can choose to record CPD hours for attendance at this event in their personal CPD logs. Members should refer to Engineers Australia’s CPD Policy for details of requirements and conditions.
# The Bailey method for aggregate grading evaluation

## Workshop Program (subject to change)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8.00 am</td>
<td><strong>Tea and coffee</strong>&lt;br&gt;Networking opportunity for delegates</td>
</tr>
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| 8.30 am| **Introduction to the Bailey method**<br>  
  • Aggregate blending  
  • Background of Bailey method  
  • Overview  
  **Aggregate packing**<br>  
  • Packing  
  • Coarse and fine  
  • Primary control sieve  
  • Volume vs weight  
  **Unit weight tests**<br>  
  • Loose unit weight  
  • Rodded unit weight |
| 10.00 am| **Morning tea**                                                        |
| 10.30 am| **Mix type**<br>  
  • Defining mix type  
  • Coarse aggregate chosen unit weight  
  **Evaluating the combined blend**<br>  
  • Coarse graded mixes  
  • SMA mixes  
  • Fine graded mixes |
| 1.00 pm | **Lunch**                                                             |
| 2.00 pm | **Volumetrics**<br>  
  • Coarse aggregate and VMA  
  • Fine aggregate and VMA  
  • Coarse fraction of fine and VMA  
  • Aggregate packing and mix behaviour |
| 3.00 pm | **Afternoon tea**                                                      |
| 3.15 pm | **Aggregate blending spreadsheets**<br>  
  • Data input (including RAP)  
  • Evaluating existing mixes |
| 4.30 pm | **Finish**                                                             |
Enrolment form
The Bailey method for aggregate grading evaluation – 15th July 2014
Melbourne – ARRB auditorium, 500 Burwood Highway, Vermont South

**Registration fee (Australian dollars)**
Registration fee includes morning and afternoon refreshments and lunch

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>Price (pp)</th>
<th>GST</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Full fee registration</td>
<td>$1000</td>
<td>$100</td>
<td>$1100</td>
</tr>
<tr>
<td>Early bird registration (Must register prior to C.O.B. 19 June 2014)</td>
<td>$900</td>
<td>$90</td>
<td>$990</td>
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<tr>
<td>Registration for AAPA members (Must register prior to C.O.B 19 June 2014 or full fee is payable)</td>
<td>$640</td>
<td>$64</td>
<td>$704</td>
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</table>

*Delegates are required to bring their own laptop (with Microsoft Excel installed) to the workshop. ARRB group is unable to supply laptops for delegates. Delegates are also required to bring a calculator*

**Where Do I Register and Make Payments?**

To register for this workshop and make payments please go to the following link:  
add link

ARRB’s Privacy Statement
Personal information provided by you may be held on a database and may be shared with others both nationally and internationally. Sometimes your details may be obtained from, or made available to external companies for marketing purposes. If you do not wish us to hold your details, please write to Privacy Officer, ARRB Group, 500 Burwood Highway, Vermont South, Vic 3133 or email on privacy@arrb.com.au If you choose to ask us not to hold your details, we may not be able to provide you with the services you require. A copy of ARRB’s Privacy Policy is available upon request.

Cancellations
If you are no longer able to attend this event a substitute attendee may take your place. However, if you wish to cancel your registration a full refund, minus a $220 (incl GST) service fee, will be given provided you have notified us in writing, by email, letter or fax, at least 10 business days before the start of the workshop. No refund is available for cancellations under 10 days.

Please note
On receipt of this registration, an email will be sent to you confirming this. If you do not receive confirmation, your registration may not have been received

ARRB Group supports the Helmets for Kids school program
For information about the Global Helmet Vaccine Initiative visit: [http://helmetvaccine.org/](http://helmetvaccine.org/)

Nationally recognised training

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