

RISSB



RAIL INDUSTRY SAFETY AND STANDARDS BOARD

National Turnouts Workshop

Sydney 2008

12 - 14 May



AUSTRALASIAN
RAILWAY
ASSOCIATION INC

Who should attend:

The target audience would be recognised professionals, Engineers and Technologists new to the industry:

- ✘ Manufacturers of turnouts
- ✘ Design engineers
- ✘ Proponents of turnout assembly and installation
- ✘ Turnout maintenance technologists
- ✘ People in positions of influence (Managers/Mentors/Trainers)

Workshop Overview

There are many problems arising at the various stages of design, fabrication, assembly, installation and asset management planning that affect turnout performance. In Australia these problems may grow more acute as the knowledge and skill base in the industry declines. The remaining knowledge is more disparate and held by fewer and fewer individuals.

Whilst the current knowledgeable people are still available there is an opportunity to share the skills with other individuals in the industry and to consolidate the knowledge base in a form that can be passed on to others in the future. The National Turnouts Workshop is the mechanism that will deliver this outcome.

Participants in this first workshop will have an opportunity to contribute as well as to learn. The workshop will take the form of presentations with audience participation and feedback. The audience will in large measure be knowledgeable in their own right though there will be places for those new to the industry. The presentations and feedback will be captured in a reference manual for participants.

Call: (02) 6270 4520 - Email: agardner@rissb.com.au

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National Turnouts Workshop

Content

Turnouts are critical to the operation of the railway, however, the technical knowledge base is slowly diminishing and will soon disappear all together. Therefore to ensure this knowledge is not lost to the industry and that the next generation of Engineers do not have to re-invent the wheel, this workshop has been developed to capture the relevant information. The workshop will be an opportunity to gather knowledge with a mind to compiling it into an ARA Handbook to use within the Australian Rail Industry. The workshop shall cover the following topics:

- ✘ Understanding why
- ✘ Design fundamentals
- ✘ Design Considerations
- ✘ Dual gauge
- ✘ Manufacture
- ✘ Installation
- ✘ Maintenance
- ✘ Future technologies



Venue

Stamford Plaza Sydney Airport
Cnr Robey & O'Riordan Streets, Sydney

Times

- ✘ Monday 12: 0930 - 1730
- ✘ Tuesday 13: 0800 - 1730
- ✘ Wednesday 14: 0800 - 1400

Cost

- ✘ It is intended for the course to be self funding.
- ✘ \$1,100 (incl GST)

Cost Includes:

- ✘ Three day course
- ✘ Workshop Handbook
- ✘ Workshop Recantations CDROM and handouts
- ✘ Lunch, morning and afternoon tea daily

Presenters

- ✘ *Dr. Steve Marich, is world renowned for his expertise in wheel rail and the god-farther of wheel-rail issues in Australia. Stephen has conducted reviews of wheel rail interaction at crossings and has developed the turnout grinding standards used by RailCorp.*
- ✘ *Malcolm Kerr, Chief Engineer Track manages RailCorp's track design group and technical integrity functions. Malcolm has 35 years in rail with experience over many years in the technical aspects of turnout performance.*
- ✘ *Jim Couper, is Technical Specialist Track Components with RailCorp. Jim has spent more than 37years in railways mostly in detailed turnout design and components including, timbering and plating of complex layouts utilising both old and new technologies.*
- ✘ *Dudley Ingram, is currently with Delkor but has a long history starting with the original NSW Railway Perway workshops (crossing shop) before leaving to form PRE as partner and turnout guru; then rejoining RailCorp to manage turnout installation.*
- ✘ *Greg Beh, is the Trackwork Design Supervisor for QR and has over 30 years experience in the rail industry. Greg has been instrumental in developing specialised trackwork design standards and has delivered presentations on turnout technology to international audiences.*
- ✘ *Robin Stevens, is the Senior Trackwork Designer for QR and has over 21 years experience in specialised trackwork design. Robin has extensive experience with turnout design, manufacture, installation and maintenance both nationally and internationally.*
- ✘ *Graham Bishop, is Engineering Manager for VAE Railway Systems and is a renowned Technical specialist in Railway turnouts and has been instrumental in the development and introduction of improved technology for the Australian market.*
- ✘ *Glenn Lorenz, is Engineering Manager for TKL Rail and has 25 years experience in design and manufacture of heavy haul, medium speed, dual gauge, standard and inclined tangential turnouts and associated components for Rail Networks throughout Australia and Asia*
- ✘ *Jason Nairn, PhD. (Materials Engineering), has over 10 years experience in the management of research, development, production and commercialisation of construction related products, including prestressed concrete beams.*
- ✘ *Other noted industry experts will also be involved in the presentation and development of this workshop.*

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