

Permanent Way Institution NSW

Keeping Track



PWI NSW Newsletter
July 2018

2018 PWI NSW ANNUAL CONVENTION
- 9 November 2018 -

THE MULTIMODAL PERSPECTIVE

Annual Convention Call for Papers now open!

The 2018 PWI NSW Annual Convention will be held at the International Convention Centre (ICC) on Friday, 9 November.





The theme of the convention for 2018 is The Multimodal Perspective.

The nature of the rail industry has changed, the focus has broadened. The modern rail industry is all about moving passengers and freight to where it needs to go as quickly and efficiently as possible.

Today's industry needs to integrate effectively with these other transport modes and coordinate with different parts of the logistics supply chain.

This year's theme explores all of the multi-faceted perspectives of the rail industry, and it's interfaces

In this issue...

-  **PWI Winter Dinner**
-  **February Technical Meeting**
-  **April Technical Meeting**
-  **Golf Day wrap up**

with other transport modes and it's place in the freight supply chain.

If you have an idea for a paper that you'd like to present at the PWI Annual Convention, please submit an abstract of no more than 250 words to Sal Haider, at Sal.Haider@hotmail.com.au.

Please include:

- The title of the paper
- Authors (including presenting author)
- Company

2018 PWI NSW events

JANUARY

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- PWI Annual Convention
- PWI Committee Meetings
- PWI Technical Meetings (16 Aug AGM)
- CORE (Sydney)

- AusRail (Canberra)
- ARA Awards (Melbourne)
- North Country Technical Meeting
- IRSE Meeting

- PWI Winter Dinner
- PWI Golf Day
- NSW School Holidays
- NSW Public Holidays

2018 PWI NSW Winter Dinner



Please join us for the

2018 PWI NSW Winter Dinner

Sponsored by CPB Contractors

Partners are welcome to attend this premier social event.

Date: Friday 6 July 2018

Time: 7pm

Location: Doltone House Hyde Park
181 Elizabeth Street, Sydney

Dress: Cocktail

Tickets: \$190pp (\$170 early bird price until 5 June)
\$1,700 table of ten

Register: www.pwlnsw.org.au

Queries: Info@pwlnsw.org.au

Tickets have sold out for the 2018 PWI NSW Winter Dinner!

The 2018 PWI Winter Dinner will be held on Friday 6th July 2018 at Doltone House Hyde Park and is proudly sponsored by CPB.

Our guests will be treated to an unforgettable evening of fine food and wine, great entertainment and a chance to catch up with colleagues in the industry.

Technical Meeting Wrap-Up - February 2018



Our February PWI Technical Meeting was held on Thursday 22nd February 2018 and was proudly sponsored by Delkor Rail.



Delkor Rail is a world leading supplier of bonded resilient rail fastening systems and has been providing innovative track solutions worldwide for over 30 years. Delkor resilient rail fasteners are designed to reduce structure borne noise and vibration which is induced by passing trains over the track form. Delkor systems have been extensively used in Australia and are currently being installed on Sydney Metro Northwest.

Our February PWI Technical Meeting was held on Thursday 22nd February 2018 and was proudly sponsored by Delkor Rail.

Liam Turbet, Technical Engineer at Delkor Rail presented Delkor's award-winning work in designing a reliable and resilient track fastening system to cope with the unique constraints and operating conditions of the London Underground.

London Underground (The Tube) was the world's first underground rail metro and has been in continuous use since

1863. The Tube moves over 4.5million people daily making it one of the busiest metro systems in the world.

In its 150 years of service, the Underground has been expanded, updated and upgraded on a constant basis. While not quite original, the traditional rail track fastening systems are old, offer virtually no resilience and require a lot of maintenance which is a costly and time consuming exercise.

Delkor Rail worked in conjunction with London Underground Track Delivery Unit to design a rail track fastening system to replace the existing traditional forms.

The London Underground team were looking for a system that could deal with the high wheel-rail forces induced by the tight track alignment without fatiguing whilst being simple, reliable, offer resilience, reduce structure borne vibration and noise and deliver virtually maintenance free operation.

After an international tender process, the Delkor Rail baseplates were selected as the preferred solution and a number of new baseplates were designed to accommodate the operating conditions and also fit within the tight required footprint imposed by the existing tunnel and track structure design.

As well as customising the baseplates, Delkor Rail also assisted with an installation methodology that would suit the tight constraints of the Deep Tube network. The first installations were successfully completed in 2014 on the deep tube Central Line.

Since then Delkor together with the Track Delivery Unit has developed baseplate solutions for not only the plain line but also for Checkrail and Turnout applications.

The work completed to date was recognised by winning the 2017 UK Rail Industry Awards (UKRIA) for Design Innovation.



Technical Meeting Wrap-Up - April 2018



Our April PWI Technical Meeting was held on Wednesday 18th April 2018 and was proudly sponsored by Sydney Trains.



Sydney Trains commenced operations on 1 July 2013, operating rail services across the metropolitan Sydney area bounded by Berowra, Emu Plains, Macarthur and Waterfall.

As well as maintaining trains, Sydney Trains also operates the network-wide Rail Management Centre, providing train control services to all operators on the Sydney metropolitan network, and is responsible for maintenance of over \$32 billion in assets, including tracks, trains, signals, overhead wiring, stations and facilities.

Our April PWI Technical Meeting was held on Wednesday 18th April 2018 and was proudly sponsored by Sydney Trains.

John McLeod, Professional Head of Track Engineering at Sydney Trains and Prof. Huijun Li from the University of Wollongong presented their research into crack propagation and squat growth in rails, particularly under wet conditions.

Theoretical research hypothesises that the hydraulic entrapment of water is critical to crack propagation associated with squat growth. This explains why squats do not occur in track inside tunnels. However, metallurgical evidence from ex-service rails damaged by the presence of water at the wheel and rail interface is lacking.

A localised section of rail was discovered to have suffered



severe surface damage as a result of water dripping from an air-conditioning system located in the tunnel roof.

This section of rail offered an ideal controlled location for a detailed metallurgical investigation of the formation of white etching layers (WELs) under both dry and wet conditions. The study would also examine the relationship between WELs and squat initiation and the mechanics of water on crack propagation and squat growth of ex-service rail.

This presentation revealed some of the surprising evidence gathered during this study and discussed the potential impacts for the rail industry in the treatment and prevention of squat defects.



2018 PWI Golf Day

Golf Day wrap-up



Over 100 of the rail industry's finest (and not so fine) golfers headed out to Bankstown to play in the 15th Annual PWI Golf Day, on Friday 9th March.

Bankstown Golf course was in excellent condition and the weather was kinds to us with the rain holding out until ten minutes before close of play.

Many thanks to our fantastic sponsors who made the event a success, helping us provide excellent prizes on every hole.

A new caterer has joined the venue and the breakfast, half time munchies and buffet lunch were a great standard, and the golf cart was busy delivering drinks across the course.

Thank you to the PWI Golf Committee for your efforts in making the day go so well:

- Kevin Golledge
- Peter Boonstra
- Mike O'Shea
- Dan Collison
- Natalie-eve Gambell

The next PWI Golf Classic will be held on Friday 8th March 2019 at the Bankstown Golf Club.

The PWI Golf Committee will be conducting a 'lessons learnt' from the 2018 event and if any sponsor or player has any suggestions to improve the day please forward by email to either;

Kevin Golledge kevinjgolledge@optusnet.com.au or

Mike O'Shea mike.oshea@mbmpl.com.au

2018 PWI Golf Day

Major Prize Winners

Handicap 1st Place

Sponsored by **Core Recruitment**

Prize - \$150 Myer vouchers

CPB Contractors Team - John Langford; Phil Milford;
Vince Caveney



Handicap 2nd Place

Sponsored by the **NSW PWI**

Prize - \$100 Myer vouchers

Laing O'Rourke #1 - Ian Cunnecliffe, Darren Pritchard,
Travis Rawlins



Handicap 3rd Place

Sponsored by the **NSW PWI**

Prize - \$80 Myer vouchers

Rail Planning Services #1 - Andrew Wilson; Malcolm
Kerr; Chris Francis



Scratch 1st Place

Sponsored by **Laing O'Rourke**

Prize - \$150 Myer vouchers

Brefni Team - Tom Brady; Scott Fraser; Richard Reid



2018 PWI Golf Day

Major Prize Winners

Scratch 2nd Place

Sponsored by the **NSW PWI**

Prize - \$100 Myer vouchers

Speno Team - Mark White; Ben White; Justin McClelland



Scratch 3rd Place

Sponsored by the **NSW PWI**

Prize - \$80 Myer vouchers

Rail Planning Services #2 - Rohan Clarke; Brent Boden; Stuart Sutherland



Bunny Award for Last Place on Handicap

Sponsored by the **NSW PWI**

Prize - Bunny Easter Egg + \$10 Bunnings vouchers

Rail Planning Services- John Minchin; Mary-Anne McLerie



2018 PWI Golf Day

Holes Prize Winners

1st Hole (Longest Putt)

Sponsored by **Hays Recruitment**

Prize - Moët Champagne

All Grades - Justin Bagge



2nd Hole (Longest Drive)

Sponsored by **Acoustic Studio**

Prize - Golf umbrella / golf balls / whiskey

A Grade - Phillip Botha

B Grade - Steve Wilshaw

Ladies - Mary-Anne McLerie



3rd Hole (Nearest the Pin)

Sponsored by **Plasser Australia**

Prize - Box of golf balls

A Grade - Chris Francis

B Grade - Tony Howitt



4th Hole ("Teleporter")

Sponsored by **VIZIONX**

Prize - Box of golf balls

A Grade - Justin Restler

B Grade - Pauline Henderson



2018 PWI Golf Day

Holes Prize Winners

5th Hole (Drive & Pitch A Grade)

Sponsored by **Lendlease Engineering**

Prize - 3 x \$75 Pro Shop vouchers

Laing O'Rourke #1 - Ian Concliffe; Darren Prichard;
Travis Rawlins



6th Hole (Longest Drive)

Sponsored by **Lycopodium**

Prize - 2 x \$75 Myer vouchers

A Grade - Justin McLelland (collected
by Mark White)

B Grade - Justin Bagge



7th Hole (Nearest the Pin)

Sponsored by **Brefni**

Prize - \$100 Visa cards

A Grade - Claude Vella

B Grade - Steve Wilshaw



8th Hole (Longest Drive)

Sponsored by **Cardno**

Prize - Bottle of wine

A Grade - Vince Caveney

B Grade - Aaron Wynyard



9th Hole (Team Event A Grade)

Sponsored by **Endeavour Mutual Bank**

Prize - Beer and champagne packs

Infrastructure Nation - Hugh Connolly; Steve Wilshaw;
Ed Tenaglia



2018 PWI Golf Day

Holes Prize Winners

10th Hole (Longest Drive)

Sponsored by **RT Health**

Prize - \$100 Bill Bass sunglasses

A Grade - Justin McLelland (collected by Mark White)

B Grade - Hadi Khairuddin



11th Hole (Nearest the Pin)

Sponsored by **Bloor Rail**

Prize - \$100 vouchers

A Grade - James Dowzard

B Grade - Tyler Laitinen



12th Hole (Longest Drive)

Sponsored by **Rail Planning Services**

Prize - \$150 vouchers

A Grade - Vince Caveney

B Grade - Mark Worthington



13th Hole (Nearest the Pin)

Sponsored by **CPB Contractors**

Prize - \$50 vouchers

A Grade - Claude Vella

B Grade - Tyler Laitinen

Ladies - Hillary Barton



14th Hole (Longest Drive)

Sponsored by **Rail Planning Services**

Prize - \$250 vouchers

✓A Grade - Owen Henry

B Grade - Aaron Wynyard



2018 PWI Golf Day

Holes Prize Winners

15th Hole (Nearest the Pin)

Sponsored by **MBM**

Prize - \$100 Westfield vouchers

A Grade - Chris Francis

B Grade - Tyler Laitinen



16th Hole (Drive & Pitch B Grade)

Sponsored by **Pandrol**

Prize - \$175 vouchers

Acoustic Studio - Jason Cameron; Hadi Khairuddin,
Anthony Cano



17th Hole (Drive & Pitch B Grade)

Sponsored by **John Holland Rail**

Prize - \$100 Golf Mart vouchers

Endeavour Mutual Bank - Mark Worthington; Simon
Brasier; Mal Webster



18th Hole (Nearest the Pin)

Sponsored by **Artifex Group**

Prize - \$100 vouchers

A Grade - Darren Pritchard

B Grade - Jason Tagg



PWI Annual Convention Awards Are Open

PWI NSW has five annual awards each year for welding, track maintenance, young achievers, innovation and platelaying (track/turnout installation).

Presentation and recognition of permanent way achievement in the past 12 months not only acknowledges efforts, it is also an opportunity to advertise your achievements amongst industry peers and prospective clients.

PWI NSW Awards Nominations

To nominate you must be a financial PWI NSW member or have at least one financial PWI NSW member in your team.

We want our managers and leaders for all our member organisations to encourage both individual and teams to nominate for these prestigious awards in 2018.

These awards are presented during the PWI Annual Convention in October. All Award submissions, except the Young Achiever Award, close at the end of July each year with projects completed in the previous 12 months eligible for entry.

Award categories are:

- **Alan Barham Maintenance Award**
- **Ken Erickson Innovation Award**
- **Steve Maxwell Platelaying Award (Minor and Major categories)**
- **Welders Award**

Submission templates, criteria and other relevant information for each award category can be found on the PWI website: pwinsw.org.au/awards



Where am I?



This issue's 'Where am I?' is located in regional NSW.

This line is currently disused, and has been removed in some areas, as shown in the photo.

However, it was announced that late last year that this line would be reactivated under the Fixing Country Rail program, to reduce the costs of transporting produce from these regions to port.

The other end of this line is on one of the NSW borders.

Where am I? And what is the line being reactivated?

Send your guesses or suggestions for the next issue to the editor at: editor@pwinsw.org.au

PWI Sponsors

Welcome to our new Gold Enhanced PWI member, **Brimble Rail**.

The Brimble name is synonymous with rail resurfacing. This family-owned business spans three generations bringing with it over 100 years of rail construction and maintenance experience.



With a proud history of providing excellence in track tamping, resurfacing and high-speed track recording. Brimble Rail provides tailored and trusted services to clients throughout Australia and across networks.



Image source: David Brimble and The Maitland Mercury

PWI Sponsors

The Permanent Way Institution would like to thank its Enhanced Corporate Members for their continued support.

Platinum Enhanced Members



Gold Enhanced Members



6x Gold Memberships
available for sponsorship

PWI Sponsors

Silver Enhanced Members



1x Silver Membership
available for sponsorship

PWI Sponsors

Corporate Members

The Permanent Way Institution would like to thank its Corporate Members for their continued support.

Acciona Infrastructure Australia

Advisian

Agonis Group

Amey

Anric Rail

Arcadis Australia Pacific

Arenco

Aurecon Australia Pty Ltd

Australian Rail Track Corporation Ltd

Beca Pty Ltd

BloorRail Pty Ltd

Brefni Pty Ltd

Cardno

CGC Recruitment

CH2M

Commworx Construction Pty Ltd

CR Rail

Degnan

Delkor Rail Pty Ltd

Downer

Edilon Sedra Australia

Endeavour Mutual Bank

Fluor Global Services

Gartner Rose Pty Ltd

GHD Pty Ltd

Gilgandra Shire Council

Harbinger Infrastructure

HKA Global Pty Ltd

InfraSol Group Pty Ltd

Jacobs Group (Australia) Pty Ltd

Kellogg Brown & Root

Liftronic Pty Ltd

Linmag Australia Pty Ltd

Martinus Rail

Meadows Consulting Pty Ltd

Mott McDonald

Multi Civil & Rail Services Pty Ltd

Northern Fencing Specialists

Pidgeon Civil Engineering

Plateway Pty Ltd

Progress Rail Services

Projex Group Pty Ltd

Rail, Tram & Bus Union NSW

Railtech Australia Limited

Rhomberg Rail Australia Pty Ltd

Robson Civil Projects

Rocla Concrete Sleepers

RRPS Pty Ltd

RT Health Fund

SLR Consulting

Sydney Trains

Taylor Rail Australia

Thermit Australia Pty Ltd

Thompson Controls

Turnbull Engineering

VAE Railway Systems Pty Ltd

VizionX (Group) Pty Limited

Vossloh Cogifer Australia

Benefits of PWI NSW Corporate Sponsorship

Platinum Membership

- Entry to the Convention for up to 10 employees (or clients)
- Large Logo on the Convention banner
- Recognition on the front cover of the yearly Journal
- Company logo on luncheon tables at the Annual Convention
- Company advertising / promotional items provided into Convention registration bags (supplied by Sponsor)
- Opportunity to chair a session at the Annual Convention
- Recognition and logo on back cover of the yearly Journal
- A Platinum membership certificate provided at the AGM
- Recognition as a Platinum Member in the PWI newsletters
- Recognition as Platinum Member on the PWI website
- Three free entrants to the Annual PWI Golf Day if sponsorship is offered
- Double sided A4 colour advertisement in the yearly Journal
- Framed Membership Certificate issued upon joining and updated certificates issued annually

Gold Membership

- Entry to the Convention for up to five employees (or clients)
- Large Logo on the Convention banner
- Company advertising / promotional items provided into Convention registration bags (supplied by Sponsor)
- Recognition and logo on the inside front cover of the yearly Journal
- Separate recognition in the Journal as a Gold Member and supporter of PWI
- A Gold membership certificate will be provided at the AGM for each year you are a Gold Member
- Recognition as a Gold Member in the PWI newsletters
- Recognition as Gold Member on the PWI website
- Two free entrants to the Annual PWI Golf Day if sponsorship is offered
- Double sided A4 colour advertisement in the yearly Journal
- Framed Membership Certificate issued upon joining and updated certificates issued annually

Silver Membership

- Entry to the Convention for up to three employees
- Logo on the Convention banner
- Recognition and logo on inside back cover of the yearly Journal
- A Silver membership certificate will be provided at the AGM for each year you are a Silver Member
- Recognition as a Silver Member in the PWI newsletters
- Recognition as Silver Member on the PWI website.
- One free entrant to the Annual PWI Golf Day if sponsorship is offered
- Double sided A4 colour advertisement in the yearly Journal
- Framed Membership Certificate issued upon joining and updated certificates issued annually

Corporate Membership

- Entry to the convention for one employee
- Single page advertisement in the Journal
- Recognition of membership in Newsletters and the yearly Journal
- Logo displayed on the day of the convention (at random between sessions)
- Opportunity to provide presenters and sponsorship of Technical meetings
- Opportunity to provide additional sponsorship for PWI Golf Day and Winter Dinner events including one free entry for sponsor
- Annual Membership Certificate available for download and printing

Annual Membership

Platinum Corporate (limit of 4)	\$10,000 (ex GST)
Gold Corporate (limit of 8)	\$5,000 (ex GST)
Silver Corporate (limit of 16)	\$3,000 (ex GST)
Corporate	\$1,000 (ex GST)

Membership correspondence to:

Membership Secretary
Peter Boonstra
Email: membership@pwinsw.org.au
Phone: 0412 424 438