Heavy Haul Rail 2021

14 – 15 April 2021 | The Ritz-Carlton, Perth

INTERNATIONAL INDUSTRY KEYNOTE PRESENTATIONS:

Lisa Stabler, President, Transportation Technology Center (TTCI), Chair, United States of America, International Heavy Haul Association (IHHA)

Caroline Wilkie, Chief Executive Officer, Australasian Railway Association (ARA)

Kevin Piefer, Managing Director - Australia, Holland Co

Sue McCarrey, Chief Executive, Office of the National Rail Safety Regulator

Adrian Unwin, Senior Rail Engineer - Rail Track Maintenance, Fortescue Metals Group

James Shaw, Senior Systems Engineer, Calibre Group (ARA Future Leader)

Tony Crosby, General Manager Services, 4Tel Pty Ltd

Rubim De Moura, Hedland Operations Engineering Manager Port & Rail, Fortescue Metals Group

Claire Pierce, Executive Commercial Leader, Australia and New Zealand, GE Transportation, a Wabtec Company

Ali Parvizi, National Marketing & Sales, Traction, ABB Australia Pty Ltd

Anne-Marie Brits, A/ Executive Director - Freight, Ports, Aviation and Reform, Department of Transport WA

Marion Terrill, Transport and Cities Program Director, Grattan Institute

Ravi Ravitharan, Director, Monash Institute of Railway Technology (IRT)

David Owen-Jones, Rail Construction Manager, Downer

Paul Mitchell, ATMS Program Director, ARTC

Lido Costa, Principal AutoHaul® – AutoHaul® and Rail Productivity, Rio Tinto Iron Ore

Georgia Nicholls, General Manager – Freight Rail, Australasian Railway Association (ARA)

Nithurshan Nadarajah, Deputy Team Leader, Monash Institute of Railway Technology (IRT)

Surendra Bishit, Technical Director – Rail, Aurecon

Mohammad Muzaffer, Bachelor of Civil Engineering and Bachelor of Design in Architecture, The University of Sydney

FEATURING INDUSTRY LEADERS INCLUDING:

Antonio Merheb, Rail Specialist, MRS Logística SA

Jonathan Duvel, Principal Engineer Track, Transnet Freight Rail SA

Next Generation Conference Scholarship Sponsor

8.00 Registration and welcome coffee

8.40 Opening and Administrative briefing

8.45 Welcome to Country

8.55 ARA Welcome
   Caroline Wilkie, Chief Executive Officer, Australasian Railway Association (ARA)

COMMODITY OUTLOOK

9.10 The global demand for Australia's resources
   Vivek Dhar, Director - Mining and Energy Commodities Research, Commonwealth Bank

9.30 Managing and Maintaining 6-Sigma Quality in Flash Butt Welding
   Learnings, case studies and practical solutions that Holland has developed in over 40 years of flash butt welding in North America and now bringing that capability and expertise to Australia.
   Kevin Piefer, Managing Director - Australia, Holland Co

GOVERNMENT ADDRESS

10.00 WA GOVERNMENT ADDRESS

10.20 Strategic policy and planning to meet Western Australia's freight rail needs over the short, medium and long term horizon
   Anne-Marie Brits, A/ Executive Director - Freight, Ports, Aviation and Reform, Department of Transport WA

10.50 Morning refreshment break

RAIL SAFETY

11.20 Regulating rail safety across Australia – ONRSR's role and major projects
   Sue McCrery, Chief Executive, Office of the National Rail Safety Regulator

11.50 Harnessing the Power of Autonomous Track Geometry and Rail Profile Inspection Technology to Build a Safer Rail Network
   Adrian Unwin, Senior Rail Engineer - Rail Track Maintenance, Fortescue Metals Group

12.20 Complex Safety Critical Projects in Heavy-Haul Applications in the Pilbara
   James Shaw, Senior Systems Engineer, Calibre Group and ARA Future Leader

12.40 Networking and lunch break

1.40 Improving Track Worker Safety in the Rail vehicle Detection Multi Track Territory
   Tony Crosby, General Manager Services, 4Tel Pty Ltd

SUSTAINABILITY IN HEAVY HAUL

2.10 Turnouts maintenance and operation in 42 tons per axle
   Rubim De Moura, Hedland Operations Engineering Manager Port & Rail, Fortescue Metals Group

2.40 Sustainability in Rail: An OEM Perspective
   Claire Pierce, Executive Commercial Leader, Australia and New Zealand, GE Transportation, a Wabtec Company

3.10 Battery Wagon Technology to Support Zero Emission in Heavy Haul Rail Operation
   Ali Parvizi, National Marketing & Sales, Traction, ABB Australia Pty Ltd

3.40 Afternoon refreshments
   Chair: Georgia Nicholls, General Manager – Freight Rail, Australasian Railway Association (ARA)

INVESTMENT

4.00 Investment: What's needed to fund rail infrastructure for the future?
   — Getting best value and returns from the current investment levels
   — Innovative funding
   — Guarantee profitable investments in Digital Railways
   Marion Terrill, Transport and Cities Program Director, Grattan Institute

4.30 Instrumented Revenue Vehicles for Heavy-Haul Track Condition Monitoring and In-Train Force Validation
   Ravi Ravitharan, Director, Monash Institute of Railway Technology (IRT)

5.00 INTERNATIONAL ADDRESS | Effective Management of Track Geometry: A South African Perspective
   Jonathan Duvel, Principal Engineer Track, Transnet Freight Rail SA

5.30 Re-cap day one and close of day one

CONFERENCE DINNER

Pre-dinner drinks at 6.30pm
Starting with pre-dinner drinks at 6.30pm, the conference dinner at The Ritz-Carlton provides you with the perfect opportunity to continue networking and connecting with peers in a relaxed and convivial atmosphere. Open exclusively to conference attendees and invited industry guests, register at the time of your conference booking.

NEXT GENERATION CONFERENCE SCHOLARSHIP

Are you 30 years and under, work in the rail industry and have an idea that could disrupt or bring greater awareness of the benefits of rail? Visit the conference website for more details and submit your ideas by 25 February for the opportunity to WIN 1 of 10 scholarships to attend the 2021 ARA Heavy Haul Rail conference and dinner.
Heavy Haul Rail 2021 Day 2
Thursday 15 April 2021

8.00 Registration and welcome coffee
8.50 Safety and Administrative briefing
8.55 Opening remarks from the Chair

9.00 INTERNATIONAL KEYNOTE ADDRESS | Understanding the Heavy Haul Wheel/Rail Interface: Stochastic Vehicle/Track Interaction Assessment
Lisa Stabler, President, Transportation Technology Center (TTCI), Chair: United States of America, International Heavy Haul Association (IHHA)

9.30 INTERNATIONAL ADDRESS | The implementation of technologies to minimize track maintenance costs and promote high reliability systems in Brazil’s heavy haul
Antonio Merheb, Rail Specialist, MRS Logistica SA

HEAVY HAUL OPERATIONS IN AUSTRALIA
10.00 Embedded rail track (ERT)
David Owen-Jones, Rail Construction Manager, Downer

SUPPLY CHAINS
10.30 Why ATMS will benefit Australia's supply chain
Paul Mitchell, ATMS Program Director and Gary Evans, Operational & Integration Manager – ATMS, Interstate Network, ARTC

11.00 Morning refreshment break

DEVELOPMENTS AND BENEFITS IN AUTOMATION
11.30 Growth in Digital Capacity: Automation at Rio Tinto
Lido Costa, Principal AutoHaul® – AutoHaul® and Rail Productivity, Rio Tinto Iron Ore

12.00 Assessing risk and improving heavy haul network safety using advanced digital twins
Nithurshan Nadarajah, Deputy Team Leader, Monash Institute of Railway Technology (IRT) and ARA Future Leader

12.30 Networking and lunch break

NEW APPLICATIONS IN RAIL MAINTENANCE
1.10 Rolling Stock Failure Predictions Using Data Science & AI: A BHP & Uptake Case Study
Tom Fisher, VP - APAC, Uptake & Joe Totten, Principal Maintenance Engineer, BHP

1.40 Heavy Haul Track Maintenance – Common Problems and Remedies
Surendra Bisht, Technical Director – Rail, Aurecon

2.10 The Effect of Engineered Elasticity on the Quality of Railway Super Structures and its Influence on Life Cycle Costs (LCC)
Christopher Zheng, Bachelor of Civil Engineering and Bachelor of Design in Architecture and Mohammad Muzaffer, Bachelor of Civil Engineering and Bachelor of Design in Architecture, University of Sydney School of Engineering

2.40 Closing remarks
3.00 Departure to site tour

TECHNICAL SITE TOUR – HOLLAND RAIL SERVICES & ARIES RAIL FACILITY
Delegates will be transported to Wangara for a technical tour within the Equipment & Maintenance Facility from which Aries Rail manages fleet compliance for Holland Rail Services across WA’s heavy haul rail industry providing services for many heavy haul rail customers including BHP, Rio Tinto and FMG.
Delegates will experience a classroom and field demonstration of the production of flash butt welds using Holland’s new-to-market Flash Butt MobileWelder.
There will also be a virtual demo (live from a remote location) on the collection and management of data in real time using Holland’s proprietary Intelliweld system.
The site tour is included as part of your conference registration. Seats are limited, so register your interest at the time of booking to secure your place.

SPONSORSHIP AND EXHIBITION OPPORTUNITIES
The Heavy Haul Rail conference offers unique networking and business development opportunities with key decisions makers from the rail and resources industries.
Please email Sarah Ingram on Sarah.ingram@informa.com for a copy of the sponsorship prospectus including delegate profile information, or call 0406 530 043 to discuss the branding, thought leadership and exhibition opportunities available.

EXHIBITORS:
Heavy Haul Rail 2021
14 – 15 April 2021 | The Ritz-Carlton, Perth

Easy Ways to Register

1. Web

2. Telephone
   +61 (0)2 9080 4307 – Quoting P21M03

3. Email
   info@informa.com.au – Quoting P21M03

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Pricing Details

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<th>ARA member rate - 20% discount</th>
<th>Standard Rate</th>
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<tr>
<td>Conference Package</td>
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<tr>
<td>Two day conference</td>
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ARA YOUNG RAIL PROFESSIONALS REGISTRATION*

| Two day conference    | $878 | $87.80 | $965.80 | $219.50 | $1,097.50 | $109.75 | $1,207.25 |

CONFERENCE DINNER | 14 APRIL 2021

| Individual ARA member rate | $176 | $17.60 | $193.60 | $44 | $220 | $22 | $242 |
| Table of 10               | $1,760 | $176 | $1,936 | $440 | $2,200 | $220 | $2,420 |

VIRTUAL RATES | ARA member rate

| $900 | $90 | $990 |

VIRTUAL RATES | ARA Young Rail Professionals

| $450 | $45 | $495 |

VIRTUAL RATES | Standard rate

| $1,200 | $120 | $1,320 |

For full terms and conditions, please visit: www.informa.com.au/hhrail2021

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