Heavy Haul Rail 2018
16 – 17 October 2018   |   Hyatt Regency Perth

FEATURING INDUSTRY LEADERS INCLUDING:

Sue McCarrey, Chief Executive, Office of the National Rail Safety Regulator
Stuart Harrison, Head of Rail Operations, Roy Hill
Michael Bailey, Rail General Manager, BHP Iron Ore
Wayne Johnson, General Manager Customer Service, ARTC
Nicole Lockwood, Chair, Westport Taskforce
Michael Charlesworth, HSEQ Manager, Speno Rail Maintenance Australia
Brett Lynch, President Coal, Pacific National
Shannon Roma, Head of HR – Coal, Pacific National
Bonnie Ryan, Senior Manager – Freight, Logistics & Industrial Sectors, G51 Australia

Adam Pratt, Manager AutoHaul, Rail Operations, Rio Tinto Iron Ore
Anshul Bajpai, Senior Engineer Reliability, Rail, Rio Tinto Iron Ore
Dr Carla Boehl, Principal Consultant Asset Management, SNC-Lavalin
Prof Maksym Spiryagin, Deputy Director of the Centre for Railway Engineering, CQUniversity Australia
Danny Broad, CEO, Australasian Railway Association
Rachael Logie, Associate Director, Construction Consulting, BIS Oxford Economics
Megan McCracken, Chair, National Association of Women in Operations

TECHNICAL SITE TOUR
Roy Hill Remote Operations Centre, Perth
8.00 Registration and welcome coffee
8.50 Administration and safety briefing
9.00 WELCOME TO COUNTRY
Kevin Richardson, Ballardong Director, South West Aboriginal Land and Sea Council
9.10 ARA WELCOME and OPENING
Danny Broad, CEO, Australasian Railway Association

MARKET OUTLOOK
9.20 The global demand for Australia’s resources
Rachael Logie, Associate Director, Construction Consulting, BIS Oxford Economics
9.50 The role of heavy haul in driving WA’s expanding innovation sector

10.20 Refreshments and networking break

HEAVY HAUL RAIL OPERATIONS IN AUSTRALIA
10.50 Automation at Rio Tinto
Adam Pratt, Manager AutoHaul, Rail Operations, Rio Tinto Iron Ore
11.20 Lessons learnt during the journey
— Providing a coordinated and integrated approach to planning, operations and overall management
— Positive Train Control and trip optimisation
Stuart Harrison, Head of Rail Operations, Roy Hill
11.50 Innovation in increasing heavy haul efficiency and productivity
Michael Bailey, Rail General Manager, BHP Iron Ore
12.20 Networking and lunch break

SUPPLY CHAIN
1.20 Catering for our customers growth in the Hunter Valley’s integrated system
Wayne Johnson, General Manager Customer Service, ARTC
1.50 The role of ports in successful heavy haul supply chains
Charles Kretzmann, General Manager Engineering and Infrastructure, Pilbara Ports Authority
2.20 Westport project update
Nicole Lockwood, Chair, Westport Taskforce
2.50 Refreshments and networking break

SAFETY
3.20 The National Rail Safety Regulator’s guidelines on safety critical rail assets
Sue McCarrey, Chief Executive, Office of the National Rail Safety Regulator

3.50 Innovation, systems and behaviours for reducing risk and improving safety
— Using technology to drive efficiencies and improve productivity
— Implementing a safety culture change programme
Michael Charlesworth, HSEQ Manager, Speno Rail Maintenance Australia

4.20 PANEL
Workforce Development, Diversity and Sustainability
Shannon Roma, Head of HR – Coal, Pacific National
Desmond Roche, Contractor Management Team Lead & Category Specialist, Wesfarmers
Megan McCracken, Chair, National Association of Women in Operations

5.00 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 Hyatt Perth 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.

SPONSORSHIP AND EXHIBITION OPPORTUNITIES
Promote your services, products and expertise to this unique gathering of key industry stakeholders, customers, researchers and suppliers.
To discuss branding and sponsorship opportunities, please contact Samantha Lister on (+61) 2 9080 4432 or at Samantha.lister@informa.com.au

EXHIBITORS
8.00 Registration and welcome coffee

8.50 Administration and safety briefing

9.00 Opening remarks

9.10 Asset utilisation and smart approaches to freight optimization

Brett Lynch, President Coal, Pacific National

DEVELOPMENTS IN AUTOMATION AND AI

9.40 i-TRACE: Building rail’s digital capability

Bonnie Ryan, Senior Manager – Freight, Logistics & Industrial Sectors, GS1 Australia

10.20 Multi-objective optimization for decision making in infrastructure asset management via big data analytics

— Role and benefits of multi-objective optimization techniques in solving practical decision making problems in high volume of data environment
— Applications in heavy hauls infrastructure networks
— Challenges and difficulties
— The dichotomic approach

Dr Carla Boehl, Principal Consultant Asset Management, SNC-Lavalin
Anshul Bajpai, Senior Engineer Reliability, Rail, Rio Tinto Iron Ore

10.50 Refreshment and networking break

11.20 Next-Generation rail systems using artificial intelligence and machine learning to replace track-based signalling or overlay systems

— Update on artificial intelligence and machine learning techniques being developed to assist in the safe and efficient management of rail operations
— Challenges and benefits of evolving from traditional signalling systems to rail-specific artificial intelligence and machine learning algorithms
— Outcomes and developments for heavy haul

Graham Hjort, General Manager Control Systems, 4Tel and Mark Wood, General Manager, Communications/Electronics, 4Tel

NEW RESEARCH AND APPLICATIONS IN RAIL MAINTENANCE

11.50 Management of key issues in rail welding

— Key issues that are essential to get right in rail welding
— Suggested strategies to address these in a proactive way

John Cookson, Team Leader, Rail Materials, Institute of Railway Technology, Monash University

12.20 Understanding the impact on track maintenance of high traction locomotives through advanced simulation approaches

— Benefits of achieving a systems engineering approach in track design and management
— Summary of simulation approach to evaluating rail wear and track damage for different train configurations
— Validation and application of project findings

Prof Maksym Spiryagin, Deputy Director of the Centre for Railway Engineering, CQUniversity Australia

12.50 Effectiveness and application of laser cladding in railway maintenance

— Review and summary of recent developments in the application of laser cladding application within railway industry
— Outlining the potential benefits of laser cladding technology for railway maintenance
— Gaps in current technology and the economic impact

Cong Qiu, Senior Track and Materials Engineer, Institute of Railway Technology

1.10 Closing comments

1.20 Lunch and networking break

TECHNICAL SITE TOUR - ROY HILL REMOTE OPERATIONS CENTRE, PERTH

The group will depart the Hyatt Regency at 2pm for a 90min tour starting at 2.30pm. At the end of the tour, the coach will drop off delegates to Perth Airport before returning to the Hyatt Regency at 4.45pm.

Conference delegates will enjoy a tour of Roy Hill’s Perth-based integrated Corporate Headquarters and Remote Operations Centre (ROC) which provides end to end integration of its operations, marketing and corporate services functions. The central component of the ROC is the control room, which houses the Demand Chain team who are responsible for the operational planning, scheduling and execution of production activities across all areas of operations.

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.

VENUE DETAILS

Hyatt Regency Perth, 99 Adelaide Terrace, Perth, WA 6000
Phone: +61 8 9225 1234, www.perth.regency.hyatt.com
Easy Ways to Register

1. Web

2. Telephone
   +61 (0)2 9080 4307 – Quoting P18M06

3. Email
   info@informa.com.au – Quoting P18M06

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# HHRail

Pricing Details

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* Eligibility for young rail professionals rate

The ARA is delighted to offer reduced registration fees to young rail professionals, aged 30 years old and under on 16 October 2018, to attend this year’s ARA Heavy Haul Rail conference.

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