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RAIL INFRASTRUCTURE
ASSET MANAGEMENT

Reducing Total Operating Cost of Maintenance Whilst Improving Safety and Performance

Main Conference: 24 & 25 September 2014 » Workshops: 24 & 25 September 2014
Venue: Swissotel, Sydney, NSW

Maximise your learning potential by attending the interactive expert-led workshops:

INTERNATIONAL KEYNOTE SPEAKER:
Building the Business Case for Strategic Asset Management and Proactive Maintenance

Tony Lee
Chief Operations Engineer
MTR Corporation (Hong Kong)

Developing Effective Asset Life Cycle Strategies and Reducing Costs

Adrian Jones
Technical Director
ARUP

Predictive Maintenance of Existing Railway Assets

Ben Chung
Technical Executive,
GHD

Exhibitor:
Media Partner:
Researched & developed by:
Organised by:

www.rail-infrastructure.com.au
Dear Rail Specialist,

With new rail projects in the pipeline and massive investments already going into new track and associated infrastructure, there is a critical need for rail infrastructure asset owners to incorporate proactive maintenance and asset management strategies from the beginning.

In addition, the predicted increase of new freight and passenger rolling stock will wear down existing rail infrastructure faster, forcing asset owners to improve performance outcomes on a minimal budget, as well as re-evaluate their current maintenance strategies.

In response to these challenges, the inaugural Rail Infrastructure Asset Management Conference has been developed in collaboration with key industry leaders to present best practice for reducing the total operating cost of maintenance whilst improving safety and performance.

**TOPICS ADDRESSED INCLUDE:**
- Reducing the total operating cost of maintenance
- Reducing the capital cost of asset investment
- Improving the operational performance of assets by reducing failure rates and increase availability
- Reducing the potential deterioration of assets
- Minimising the environmental impacts of operating assets
- Improving the reputation of the business through improved safety and performance

**WHY SHOULD YOU ATTEND?**
- Learn how to maintain critical infrastructure
- Save money by preventing risk and failure of equipment
- Develop a whole of life cycle strategy for your assets
- Network with the industry leaders in asset maintenance and management

Join your peers at this event to learn how to build a proactive maintenance strategy and meet future freight and passenger demands through the expansion and maintenance of existing rail structures.

To book your place, simply call 02 9229 1000, email registration@iqpc.com.au or book online at www.rail-infrastructure.com.au.

I look forward to meeting you in September!

Michelle Oliveira
Conference Director – Rail Infrastructure Asset Management 2014, Transport IQ

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**INTERNATIONAL KEYNOTE SPEAKER:**

**Tony Lee**
Chief Operations Engineer, MTR Corporation (Hong Kong)

**LEADING PRACTITIONER SPEAKER FACULTY:**

Simon Whitehead
General Manager, Engineering, Public Transport Victoria

Alan Trestour
Program Management Services, Sydney Trains

Ben Staples
Asset Management Strategic Specialist, Metro Trains Melbourne

Ashley Keep
Distribution Engineer, Public Transport Services (DPTI)

Adrian Jones
Technical Director, ARUP

Ben Chung
Technical Executive, GHD

Dr. Jeevan Senthilvasan
Principal Structural Engineer, KBR

Dominic DiBrito
Managing Director Rail, NDY LTK

John Hinds
Director – Rail, Hyder Consulting

Tim Griffin
Regional Superintendent Maintenance – Asset Maintenance Network, AURIZON

Mike Stoke
Technical Director, Infrastructure Advisory, AECOM

David Cameron
GM Assets, V/Line

Steve Boshier
Asset Integration Manager, V/Line

Mark Smith
Principal Manager, Industry & Technical Development – Asset Standards Authority, Transport for NSW

Andy Tankard
Principal Manager Safety, Quality, Environment & Risk, Transport for NSW

Lucio Favotto
Manager Asset Planning, Transport for NSW

Toby Horstead
Principal Manager Network & Asset Strategy, Transport for NSW

Richard Adams
Manager Safety & Risk Assurance, Transport for NSW

Bob Bennett
Manager Asset Performance Reporting, Transport for NSW

Nicolas Fertin
Former GM Asset Management, Pacific National

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**EARLY BIRD OFFER**
Register and pay before 20 June and save up to $700!
07.15  Building the Business Case for Strategic Asset Management and Proactive Maintenance
Workshop Facilitator: Tony Lee
Chief Operations Engineer, MTR Corporation (Hong Kong)

09.15  Registration and Welcome Coffee

09.45  Opening Remarks from the Chair
Steve Boshier
Asset Integration Manager, V/Line

09.55  Maintaining Asset Safety and Integrity
Lead Facilitator
Andy Tankard
Principal Manager Safety, Quality, Environment & Risk, Transport for NSW
Facilitators
Toby Horstead
Principal Manager Network & Asset Strategy, Transport for NSW
Bob Bennett,
Manager Asset Performance Reporting, Transport for NSW
Lucio Favotto
Manager Asset Planning, Transport for NSW
Richard Adams,
Manager Safety & Risk Assurance, Transport for NSW

10.35  Incorporating Proactive Maintenance and Asset Management Strategies
- Asset condition assessment
- Technology procurement and selection
- Contract design, works supervision, commissioning and certification
- Preliminary and detailed design of track, yards and maintenance facilities, bridges and structures

11.15  Speed Networking Session
An effective structured interactive session designed to help you expand your network through one-on-one focused conversations.

11.45  Morning Coffee and Networking Opportunity

12.15  Key Tips for Rail Infrastructure Optimisation
- Constructing a business case for proactive asset management
- Performance improvement strategies
- Services reliability assessment and improvement
- Risk assessment mitigation and management

12.55  Best Practice on Reducing the Capital Cost of Asset Investment

13.35  Designing Effective Asset Management and Maintenance Plans
- Supply chain and procurement
- Contract administration processes and management
- Balancing quality and cost
- Vendor supply management and procurement
- Service reliability
- Practical application of asset management

14.35  Networking Lunch
Adrian Jones
Technical Director, ARUP

15.05  Key Considerations of Implementing and Replacing New Technologies in Existing Assets
- Integration of new and existing items to the network
- Communication between old and new systems
- Ensuring new items get on the system through using the right information
- Implications of implementing new technologies on your existing assets

15.20  Simulation of Key Considerations of Implementing and Replacing New Technologies in Existing Assets
Dominic DiBrito
Managing Director Rail, NDY LTK Rail

15.40  Federal Government Tangents to Rail Asset Investment

16.00  Afternoon Refreshments and Networking

16.30  Business Transformation through Strategic Maintenance and Operations
- Leading programs to achieve business outcomes
- Stakeholder engagement and change management methodologies
- Implementing life-cycle models through maintenance strategies
- Rail infrastructure master-planning and understanding the best design models

16.50  Closing Remarks by the Chair

17.15  End of Day 1 and Networking Drinks

17.30  Developing Effective Asset Life Cycle Strategies and Reducing Costs
Workshop Facilitator: Adrian Jones
Technical Director, ARUP
07.15 Revisiting Existing Railway Maintenance Strategies
Workshop Facilitator: Ben Chung
Technical Executive, GHD

09.15 Registration and Welcome Coffee

09.45 Opening Remarks from the Chair

09.55 Overhead Traction Power System at Adelaide Metropolitan Rail
- Overhead maintenance (electric trains)
- Renewing traction and developing asset management systems
- Implementing automated systems on the RS to get information related to performance; cameras; automated operators
Ashley Keep
Distribution Engineer, Public Transport Services (DPTI)

10.35 Remote Monitoring and Diagnostic Technology Standardisation
- Technology selection and implementation
- Remote condition monitoring
- Operational performance and running lean
- Forecasting trends for proactive maintenance
- Available systems for transforming raw data into information: Optimising maintenance planning and automation
John Hinds
Director – Rail, Hyder Consulting

11.15 Morning Coffee and Networking Opportunity

11.45 Rehabilitation of Rail Bridges: Structural Damage due to Extreme Events
- Site inspection and definition of the extent of damage
- Definition of short term and long term repair works to the bridge structure
- Rating of the structure for operational use
- Site support during the rehabilitation works
Dr. Jeevan Senthilvasan
Principal Structural Engineer, KBR

12.15 Asset Management Systems Strategies
- Ensuring high standards of reliability and availability performance
- Asset maintenance systems: Planning, costing, scheduling and supervision
- Effective maintenance coordination
- Operational performance and productivity
Ben Staples
Asset Management Strategic Specialist, Metro Trains Melbourne

12.55 Networking Lunch

V/Line’s Asset Management System
- Implementing a quality maintenance process to ensure service quality performance standards
- Key maintenance approaches and methodologies that can impact cost and availability
- Exploring reliability centred maintenance and eliminating unnecessary maintenance costs
David Cameron
GM Assets, V/Line

Improving Operational Performance by Reducing Failure Rates and Increasing Availability
- Improving the reputation of the business through improved safety and performance
- Learn how to maintain critical infrastructure
- Save money by preventing risk and failure of equipment
Nicolas Fertin
Former GM Asset Management, Pacific National

Afternoon Refreshments and Networking

Increasing the Lifecycle of Existing Rail Assets through Strategic Maintenance
- Designing with maintenance in mind – clever solutions that allow greater accessibility for maintenance, inspection and monitoring
- Understanding various conditions that cause corrosion and deterioration
- Developing strategic maintenance plans that help categorise and prioritise long term plans
- Keeping tight control of costs and investing money in the right areas
Ben Chung
Technical Executive, GHD

Asset Management Systems and the Operational Environment
- Improving operational performance of assets by reducing failure rates and increase availability
- Reducing the potential deterioration of assets
- Minimising the environmental impacts of operating assets
Tim Griffin
Regional Superintendent Maintenance – Asset Maintenance Network, AURIZON

Closing Remarks by the Chair

End of Rail Infrastructure Asset Management
Building the Business Case for Strategic Asset Management and Proactive Maintenance

There are several factors contributing to the need for railway expansion and maintenance, including the increase in freight and passenger demand. The need for additional cars is quite costly, and rail infrastructure asset owners need to implement management techniques to improve their use before investing in new equipment. During this workshop, you will gain a clear understanding of all aspects of building a business case for strategic asset management and proactive maintenance.

Discussion Points:
- Life-cycle asset management
- Systems and operation assurance
- Condition-based maintenance
- Smart railway development
- Incident and recovery management

Facilitator:
Tony Lee
Chief Operations Engineer,
MTR Corporation (Hong Kong)

WORKSHOP B
24 September 5.30pm – 7.30pm

Developing Effective Asset Life Cycle Strategies and Reducing Costs

As passengers and freight demand increases across the Australian rail industry, the rail infrastructure asset owners require larger considerations on all maintenance aspects.

Building a condition monitoring plan is to reduce operating repair costs. However, it is critical to measure and forecast trends for proactive maintenance effectively. This workshop will give you the opportunity to gain expertise on innovative technologies that will allow you to improve the life-cycle management of railway structures.

Discussion Points:
- Strategies to reduce the total operating cost of maintenance
- Best practice on reducing the capital cost of asset investment
- How to improve the operating performance of assets by reducing failure rates and increase availability
- Reducing the potential deterioration of assets
- Developing a whole of life cycle strategy for your assets

Facilitator:
Adrian Jones
Technical Director, ARUP

WORKSHOP C
25 September 7.15am – 9.15am

Predictive Maintenance of Existing Railway Assets

With huge costs for rail infrastructure and the increasing need for asset owners to incorporate preventative maintenance plans, asset managers are continuously challenged to decide on the most cost-effective methodologies to improve safety and quality.

Through a range of case study presentations, you will be able to understand the opportunities and risks involved in maintenance of existing assets, as well as the importance of choosing the right methodologies, and the most cost-effective strategies.

Discussion Points:
- Meeting demand in vehicles and passengers
- Maximising the life of existing assets
- Independent specialist services such as incident and accident investigations and damage assessment
- Service reliability and reputation
- Ensuring continuous quality and safety

Facilitator:
Ben Chung
Technical Executive, GHD

About our Sponsor:
Geomatic Technologies (GT) is a recognised leader in advanced mobile and spatial technologies and is among Australia’s leading providers of IT integrated solutions and services. GT’s solutions portfolio includes solutions and services for mobile workforce management, asset capture and inspection, web mapping and solutions for data access, data management and data distribution. Our rail services and solutions are designed to empower railway managers and engineers with accurate authoritative asset information.

Who You Will Meet?
- GM Asset Management
- GM Track and Infrastructure
- Heads, Directors and Managers of Engineering, Maintenance, Rail Assets & Condition Monitoring
- Consulting Engineers
- Maintenance Contractors
- Material Suppliers

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BOOK NOW!
RAIL INFRASTRUCTURE

ASSET MANAGEMENT

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Venue: Swissotel, Sydney NSW

TEAM DISCOUNTS

IQPC recognises the value of learning in teams. Take advantage of one of these special rates:
- Register a team of 2 to the conference at the same time from the same company and receive a 5% discount
- Register a team of 3 to the conference at the same time from the same company and receive a 10% discount
- Register a team of 4 to the conference at the same time from the same company and receive a 15% discount or a free pass for a 5th delegate

Ask about multi-event discounts. Call +61 2 9229 1000 for more details. Please note: Only one discount applies.

ACCOMMODATION

Swissotel Sydney is the official hotel for the Rail Infrastructure Asset Management Summit and we have negotiated event rates specifically for attendees of this event. To find out more about these rates please contact us on +61 2 9229 1000.

QUICK and EASY WAYS to REGISTER

- TELEPHONE +61 2 9229 1000
- FAX +61 2 9223 2622
- EMAIL registration@iqpc.com.au
- MHL IQPC, Level 6, 25 Bligh Street, SYDNEY NSW 2000

REGISTER ME for Rail Infrastructure Asset Management Summit PLUS:

Workshops: □A □B □C

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2 WAYS TO SAVE!

- Book early for HUGE EARLY BIRD savings.
- Book as a TEAM, save & benefit as a team.

NOTE: PAYMENT IS DUE WITHIN 7 DAYS FROM REGISTRATION TO SECURE YOUR PLACE. Registrations received without payment or a Government PO will incur a processing fee of $99 +GST = $108.90 per registration. Payment prior to the conference is mandatory for attendance. Payment includes lunches, refreshments, a copy of conference presentations via FTP website or workbook and all meeting materials. If payment has not been received two weeks before the conference, a credit card hold will be taken and processed. This card will be refunded once alternate payment has been received.

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