



The Queensland Chapters of the Risk Engineering Society

& the

Railway Technical Society of Australia

present



Analysis & Management of Rolling Stock Component Failures

Date:

Wednesday
22nd April 2008

Time:

5:30 pm for
6:00 pm start

Venue:

Hawken Auditorium
Engineering House
447 Upper Edward St
Brisbane

Cost: Free

REGISTER

Contact; Lauren Moon
EA Qld Division
3832 3749
lmoon@engineersaustralia.org.au

Refreshments will be served
before the presentation
Registration is necessary.

While railways are recognised as the safest form of commercial land transport, changing commercial & technical requirements have created new challenges as well as new opportunities for the industry.

Freight rail has moved to a serious commercial focus, requiring assets to be more productive with reduced life cycle costs. Rolling stock must have higher availability, less maintenance time, and lower operating costs. Lower tare mass wagons permit increased payload, giving significant commercial benefit.

To maintain their reputation for safety and reliability, railways must regularly review the risks associated with the changing operating environment and make changes to design, materials and maintenance practices.

David Schonfeld will discuss how axles have changed with the changing railway environment and how these relate to the known and perceived risks faced by railways. Jeff Gates will discuss bogie sideframe failures and will focus on damage mechanisms, risk-management strategies and prevention.



Dr Jeff Gates is Principal of UQ Materials Performance (division of UniQuest Pty Limited) and Senior Research Fellow in the School of Engineering at The University of Queensland, St.Lucia.

Jeff's expertise lies in:

- Consultancy & expert opinion in materials engineering, with a focus on component failure analysis;
- Ferrous alloy research (wrought & cast steels, white cast irons);
- Abrasive wear processes and wear mitigation, with a focus on the resources industries.

Jeff is a Chartered Professional Engineer and a Certified Materials Professional.



David Schonfeld is a Senior Consultant with UQMP.

Since retiring from QR and The Rail CRC, David has returned to his original career of failure analysis. He currently combines this with project management for a railway alliance and tutors young engineers at UQ.

David has degrees in both Metallurgical & Mechanical Engineering and Engineering Management. He is a Registered Professional Engineer and Certified Materials Professional. David's first job in QR was to investigate axle failures, which led to a long interest in the topic and resulted in significant changes to axle materials, design and management over 40 years.



THIS IS A CATERED EVENT AND REGISTRATION IS NECESSARY

Note: This presentation counts as 1 hr of CPD under the Risk Management category as per Engineers Australia's requirements.



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Registration Details

Yes, I will be attending the presentation on Wednesday 22nd April 2009.

Registration Options:

- Fax your registration to (07) 3832 2101
- Email this completed form to Lauren Moon at Lmoon@engineersaustralia.org.au
- Any enquiries please phone Lauren Moon on (07) 3832 3749

Name(s): _____

Position(s): _____

Company: _____

Address: _____

Telephone: _____

E-mail: _____

Membership (RES, RTSA, IEAust): _____