

TECHNOLOGY ADVANCES FOR FREIGHT TRAINS

COLIN COLE

DIRECTOR OF THE CENTRE FOR RAILWAY ENGINEERING, (CRE)

Until recently, improvements in control, monitoring and braking systems in the rail industry have been confined to passenger trains and locomotives. These improvements have benefited from modern technologies and advances in Information and Communication Technology (ICT). This is due to the hostile environment of a freight wagon which has proven a difficult area to apply improvements using electronic devices. In addition to this there are practical difficulties in supplying and maintaining on-wagon power.



In the last decade research and development in smart train technologies for freight trains has been progressing with work completed by Centre for Railway Engineering (CRE), Rockhampton, and more recently work completed by the CRC for Railway Engineering and Technology. Interest in the area is now substantial with talk of a "Digital Railway" offering the possibility of a whole new way of monitoring, controlling, and maintaining trains. The New CRC for Rail Innovation has "Smart Train Technology Package" as one of the five outputs of the Engineering and Safety Program.

The following developments will be presented and discussed:

- I Intelligent Train Monitor
- I OzECP – Electronic Controlled Brakes for Australian Rollingstock
- I Train Cruise Control
- I Train and Track Health Advisory Systems



Associate Professor Colin Cole is the Director of the CRE. He has 22 years experience in the rail industry in both rolling stock and infrastructure areas. For the past 14 years and he has conducted rail research projects related to the development of intelligent systems. He has authored and co-authored over 30 technical papers, one book chapter and has developed two patents relating to in-cabin locomotive technologies. He has also produced numerous commercial research and consulting reports.

Where

Department of Main Roads
Auditorium,
Knight St,
North Rockhampton

When

Tuesday 25th November
5:30 drinks;
6:00 Presentation

Registration

Contact EA Qld Division
Ph: 3832 3749,
Fax: 3832 2101,
www.rtsa.com.au

Please invite a colleague who may be interested.

Find out more about the society at www.rtsa.com.au

For further information contact RTSA Qld Chapter Chair Alex Howie
Email: gld-chair@rtsa.com.au, Ph: 3235 7880

Find out more about the EA Rockhampton Local Group by contacting:-
The Group Chair

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