PWI NSW
The Institution for Rail Infrastructure Engineering

Technical Meeting

Established NSW 1974 · Founded 1884

IRSE
Institution of Railway Signal Engineers
Australasian Section

Thursday 8th June 2023 at 5:00pm

Register to attend the event in person at the Sydney Masonic Centre via the PWI website (pwinsw.org.au) where a Microsoft Teams Meeting link will also be available.

wsp

WSP is one of the world's leading engineering professional services consulting firms, bringing together approximately 5,000 talented people across 14 offices in Australia. We are technical experts who design and provide strategic advice on sustainable solutions and engineer Future Ready projects that will help societies grow for lifetimes to come.

The June joint PWI and IRSE technical meeting is proudly sponsored by WSP.

Tom Hawkins (Technical Director), Jarrah Duckhs (Associate Engineer) and Peter Davies (Technical Executive) have been extensively involved in the Sydney Metro City & Southwest Linewide project and will share their experience of the key achievements, challenges and innovations

Engineering the Track and OHW for Sydney Metro City & Southwest

Sydney Metro City & Southwest will revolutionise how the city travels, with a new crossing under Sydney Harbour, seven new underground city stations, and conversion of the existing Bankstown line for metro operations. In 2018, we were engaged in design joint venture as part of the Systems Connect consortium delivering the Sydney Metro City & Southwest Linewide works package.

Tom Hawkins was Design Manager for the Linewide package, and will outline the team's scope and key achievements of the design joint venture and some of the innovative solutions that the team developed for this mega project.

Jarrah Duckhs has held various roles on the project, including Sustainability Advisor, Rail Designer and currently CPS Manager. Jarrah will present on the track slab design, specialist acoustic treatments and the critical role of coordination interfaces.

Peter Davies was the OHW Discipline Lead for the Linewide package, and will present the design of the catenary and rigid systems used on the project, how operational requirements were incorporated into the design, and the innovations that were developed for parametric modelling of the overhead wiring.

The meeting will conclude at 6:30pm. Please join us for networking drinks and finger food following the meeting.

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Gerald Chin (Principal Signalling Engineer) will share his experience on one of WSP's current signalling concept projects, and explore the challenges in integrating modern interlocking systems with older style systems.

Modern Interlocking Integration and Interfaces

Gerald Chin, Principal Signalling Engineer at WSP, will present on a current signalling concept project replacing life expired, local control relay interlocking with a new generation signalling system overlay replacement with remote control. He will explore the broad operational objectives, balancing the integration between modern and older style interlocking systems, and the interfaces between the different systems.

Member presentation

Myles Gatherer, Asset Manager of Track and Civil Structures, Metro Trains Sydney, will provide a presentation on the asset management of the Sydney Metro North West Line.

Asset Management of the Sydney Metro North West Line

Myles is a Chartered Civil Engineer who has held a variety of Asset Management positions both in the UK (including Docklands Light Railway) and in Australia, where he is currently the Asset Manager (Track and Civil) for Metro Trains Sydney.

Sydney Metro North West is the first, and currently only operational line on the Sydney Metro network. Myles will explain how this network running trains every four-minutes is managed and maintained.

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