



## Wheel-Rail Interaction Fundamentals for Railway Professionals

4th & 5th March 2024

### Presenters

**Dr Kevin Oldknow**

Assoc Professor

Simon Fraser University

Canada

**Dr Elias Kassa**

Principal Engineer Track

Monash IRT

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**Scott Younes**

Principal Engineer Dynamics

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### The course will cover important aspects of wheel-rail interface management

- Vehicle components affecting wheel-rail interaction
- Wheelset kinematics and vehicle dynamics
- Damage mechanisms
- Wheel-rail interface assessment & modelling
- Case studies
- Wheel-rail contact assessment
- Wheel-rail materials
- Friction management
- Rail management & maintenance

The aim of this two-day course is to:

- Provide background information and important concepts relating to wheel-rail interaction to professionals in the railway industry
- Provide a consistent understanding of the wheel-rail interface with industry context
- Explore the impacts of wheel-rail interface maintenance and management strategies, together with associated risks, needs and benefits

The course will be flexible to allow participants to raise questions regarding the above topics or other track infrastructure issues.

This is a wonderful opportunity to gain an illuminating insight into the concepts, technology, processes and standards that are essential for railway professionals.

**Venue:** Monash University, Clayton Campus, Victoria 3800, Australia

**Date:** Monday 4<sup>th</sup> to Tuesday 5<sup>th</sup> March 2024

**Time:** 9.00am – 5.00pm (Registration from 8.30am)

**Cost:** AUD\$ 1,400 + GST

Morning/afternoon tea, lunch and refreshments will be provided

This is an exclusive event with limited seats.

Early registration is essential to avoid disappointment.

Please feel free to notify others who may be interested in this course.

Registration by Wednesday 28 February 2024 or when course limit is reached

Contact: Connie Varamo

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Please advise if you have any dietary or access requirements.

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