

IRSE

Institution of Railway Signal Engineers
AUSTRALASIAN SECTION



IRSE Technical Meeting – November 2019
Wellington, New Zealand
CONFERENCE PROGRAM

INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TECHNICAL MEETING

WELLINGTON – NEW ZEALAND

New Zealand, New Generation, New Approach



Friday 1 & Saturday 2 November 2019









Engineering New Zealand

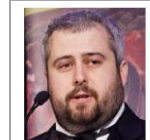
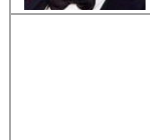



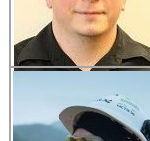


Level 6, 40 Taranaki Street, Wellington 6011



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Day One: Technical Meeting – Friday 1st Nov 2019 Engineering NZ Level 6, NEC House, 40 Taranaki St “A New Zealand flavour”

	08:00	Conference Registration, Coffee & Tea Reception and Kitchen
	09:00	Conference Opening Kaniyur Sundareswaran (Sundar) Chairman, IRSE Australasian Section Kopa Room
	09:05	Welcome Susan Freeman-Greene Chief Executive Engineering New Zealand
	09:10	Keynote Address Todd Moyle Deputy Chief Executive KiwiRail
	9:45	Overview of KiwiRail and the New Zealand Rail Network incl. National Signalling Control TBC KiwiRail
	10:00	Wellington Metro Upgrade Programme- Michael McKeon (TBC) KiwiRail
	10:30	Morning Tea Reception and Kitchen Morning Tea sponsored by Rail Infrastructure Consultants NZ
	11:00	Education Session: Cyber security for signalling engineers Chris Draper KiwiRail
	11:30	Re-useable signalling code- efficiencies in design and validation Richard Ogilvie and Daniel Grvicic Rail Control Systems Australia
	12:00	Signal Design in the Digital Age - Determining the Optimum Placement of ETCS L2 Track Sections Wei Sun and Dan Newton Aurecon
	12:30	Lunch Reception and Kitchen Sponsorship available

	13:45	Blue Sky Thinking Noel Burton Siemens
	14:15	The Signalling Industry from the Eyes of a Track and Civil Engineer Nathan Loriente MTM
	14:45	Advanced Features over ETCS Level 2 for an Effective Rail Operation Dr Olivier Leveque Alstom Signalling
	15:15	Afternoon Tea Reception and Kitchen Sponsorship available
	15:45	Design standardisation Ben Calcott KiwiRail
	16:15	MNL Recovery Incl. asset monitoring (Slip Fences, Heat monitoring) and assurance. Daniel Headifen KiwiRail
	16:45	Closing remarks from the Chair Kaniyur Sundareswaran (Sundar) Chairman, IRSE Australasian Section Close of Day 1 Technical Sessions
	17:00	Australasian Committee Meeting Boardroom Engineering NZ
	19:00	Pre-Dinner Drinks Harbourside Function Venue – Taranaki St Warf Sponsorship available
	19:30 22:30	IRSE Conference Gala Dinner Harbourside Function Venue – Taranaki St Warf Dinner – 3 course, choices, wine, beer & soft Dinner concludes. Dress: Business Attire Dinner sponsored by Frascher Sensor Technology Australia



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Day Two: Saturday 2 November 2019 Technical Site Visits






	<p>08:15 Meet Wellington Railway Station Platform 9</p> <p>Arrive 08:30 Depart 10:00</p> <p>Wellington "A" box – signal box</p> <ul style="list-style-type: none"> • Walk from Platform 9 to "A" box • Activities include <ul style="list-style-type: none"> ○ Relay Room ○ L style lever frame ○ Overbridge and station throat • Walk back to Platform 9 and board Buses to Hutt Workshops
	<p>Arrive 10:30 Depart 12:15</p> <p>Hutt Workshops – signalling prefabrication depot</p> <p>Activities include:</p> <ul style="list-style-type: none"> • Level crossing base design equipment location • CTS-2 point machine • More details to come <p>Morning Tea</p>
	<p>Arrive 12:30 Depart 13:30 14:30</p> <p>Lunch: La Bella Italia Business Centre, Nevis Street Petone</p> <p>Including Beer, Wine and Soft Drinks. Lunch Sponsored by John Holland</p> <p>Bus 1 depart at 13:30 to Wellington Airport Arrive at 14:15 at Wellington Airport.</p> <p>Bus 2 depart at 14:30 to Michael Fowler Centre, 111 Wakefield Street, Wellington Walk to hotels.</p>

PPE requirements – for the Saturday Technical Site Visit – please wear Steel Capped Lace Up Boots and Orange Hi-Viz.



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Extended Tour (Extra Cost): Sunday 3 November 2019 & Monday 4 November 2019 Kaikoura Earthquake Recovery

	<p>8:00am 9:00am</p> <p>2:15pm 5:10pm</p>	<p><u>Sunday 3 November</u></p> <p>Meet at Interislander Ferry Terminal (note approx. 10 minute taxi ride from CBD) Interislander Departs 0900</p> <p>Coastal Pacific Train Picton to Kaikoura Train departs Picton Railway Station Train Arrives Kaikoura Shuttle* from Kaikoura Railway Station to accommodation</p> <p><u>Accommodation as per individual arrangements (see below for guidance)</u></p>
	<p>7:30pm to 9:30pm</p>	<p>Dinner at The Pier Hotel (shuttle* to and from accommodation) Cost of set menu dinner included, drinks at own cost</p>
 	<p>8:30am to 12:30pm (approx. TBC)</p> <p>12:30pm to 4:30pm</p>	<p><u>Monday 4 November</u></p> <p>Bus tour of earthquake sites (pick up and drop off at accommodation)</p> <p>Bus tour note: we will be viewing sites from public areas only so there is no requirement for hi-vis clothing or other PPC. It's likely that there will be a short walk on a public path at one location.</p> <p>Free Time in Kaikoura</p> <p><u>Kaikoura attractions</u> Kaikoura is the main town in the area and is well known for points of interest and tourist attractions, including a museum, visitors' centre, souvenir shopping, dolphin and whale watching excursions. There is a local taxi/shuttle service available: Kaikoura Shuttles phone +64 3 3196166. See www.Kaikoura.co.nz for more information.</p>
	<p>From 4:30pm</p> <p>5:20pm to 8:30pm</p>	<p>Shuttle* from accommodation to Kaikoura Railway Station</p> <p>Coastal Pacific Train Kaikoura to Christchurch</p> <p>Tour ends at Christchurch railway station. Taxis available at the station. There are many accommodation options in Christchurch. Please make your own onward arrangements.</p>

Accommodation

Accommodation for the night of 3 November is not included in the cost of the visit. You will need to confirm and pay for your own arrangements. We have made block bookings at two motels. Due to the expected high demand for accommodation on 3 November these will only be held for us for a limited period. If you would like to stay at one of these motels, please contact them directly to book and advise them that you are part of the IRSE conference group.

There are many other motels and BnB's in Kaikoura if you prefer another but be aware that bookings will be heavy on our dates and that a number are already full.

*Shuttle in Kaikoura is to/from nominated accommodation venues below only

White Morph

92 Esplanade, Kaikoura. Phone +64 3 319 5014.
Email: info@whitemorph.co.nz Web: heritagehotels.co.nz/the-white-morph
Units \$230/nt for 1 or 2 people.

Booking number 62424. Rooms held for IRSE until 1 October.

Panorama Motel

266 Esplanade, Kaikoura. Phone +64 3 319 5053
Email: stay@panoramamotel.co.nz Web: www.panoramamotel.co.nz
Variety of units \$140-170/night for 1 or 2 people.

Rooms held for IRSE until 31 August.



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Registration Details

The Institution of Railway Signal Engineers

Australasian Section Inc.

Wellington Technical Meeting: 1 – 2 November 2019

Registration Details	Reference Number	Cost Per Delegate (AUD)
Full Registration		
<i>MEMBERS - Includes conference, lunch & dinner on Friday, technical visits & lunch on Saturday.</i>		
IRSE Member	EREG-ALL-OPT-31	\$300.00
Non-IRSE Member	EREG-ALL-OPT-32	\$400.00
Retired IRSE Member	EREG-ALL-OPT-33	\$150.00
Full Registration – Principal Author	EREG-ALL-OPT-34	\$100.00
Partial Registration		
IRSE Member – Friday Technical Conference	EREG-FRI-MEET-01	\$150.00
Non-IRSE Member – Friday Technical Conference	EREG-FRI-MEET-02	\$200.00
Retired IRSE Member – Friday Technical Conference	EREG-FRI-MEET-03	FREE
Technical Paper Principal Author (1 only) - Friday Technical Conference	EREG-FRI-MEET-04	FREE
Conference Dinner – Friday – Technical Author (1 only)	EREG-FRI-DNNR-04	FREE
Conference Dinner – Friday	EREG-FRI-DNNR-08	\$120.00
Technical Visit (including lunch) – Saturday	EREG-SAT-SITE-09	\$100.00
Option – Kaikoura Earthquake Tour Sun/Mon	EREG-XTND-ALL-39	\$450.00

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Registration Details (continued)

All Registrations are via the IRSE Website – <http://irse.org.au>

Note:

- Web registration allows for payments by credit card (Visa, Mastercard & AMEX)
- Organisations registering more than 5 delegates and wishing to pay on invoice should email nz@irse.org.au
- For any general enquiries about the Technical Meeting please contact John Skilton at nz@irse.org.au

Registrations close on 11 October 2019

Please assist the organising committee by registering on time

Cancellation and Transfer

Should you be unable to attend, a substitute is welcome at no extra charge. You must advise the IRSE of this change and provide the name of the substitute person.

The IRSE South Australian Section regrets that no refunds will be made for cancellations received less than 7 days prior to the conference.

Access to a complete soft copy of conference technical papers will be available from a link to the IRSE website.

For all **Cancellations and Transfers**, please contact nz@irse.org.au to arrange the request.



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Sponsorship Opportunities

The Institution of Railway Signal Engineers

Australasian Section Inc.

New Zealand Technical Meeting: 1 – 2 November 2019

Sponsorship to be booked Online. <https://www.irse.org.au/ecommerce/sponsorship-end.html>

Alternate, but not preferred, by completing the form below and emailing to nz@irse.org.au

Trade Display/Advertising/Event Sponsorship	Reference Number	Quantity	Item Cost AUD	Total Cost
One A4 advertisement (can be double sided = 2 ads) #	ESP-FR-A4-1		\$275.00	
Two A4 advertisement (can be double sided = 4 ads) or Folded A3 #	ESP-FR-A4-2		\$375.00	
Trade display only *	ESP-FRI-TD1		\$400.00	
Trade display and One A4 advertisement (can be double sided = 2 ads) * #	ESP-FR-TD1-A4-1		\$550.00	
Trade display and Two A4 advertisement (can be double sided = 4 ads) * #	ESP-FR-TD1-A4-2		\$650.00	
Name Tag Lanyard with Sponsors name (Sponsor to supply merchandise)	ESP-TM-LANY	1	\$500.00	
Friday Technical Meeting Morning tea break (including banner & mention)	ESP-FR-02-MTEA	1	\$400.00	SOLD
Friday Technical Meeting Lunch (including banner & mention)	ESP-FR-03-LNCH	1	\$600.00	
Friday Technical Meeting Afternoon tea break (including banner & mention)	ESP-FR-04-ATEA	1	\$400.00	
Friday Technical Meeting Gala Dinner Drinks (including name on menu)	ESP-FR-05-DRNKS	1	\$600.00	
Friday Technical Meeting Gala Dinner (including name on menu, banner(s) & short address opportunity).	SP-FR-06-DNNR	1	\$1,500.00	SOLD
Young Member Scholarship		1	\$1,500.00	SOLD
Saturday Site Visit Lunch	ESP-SA-03-LNCH	1	\$400.00	SOLD
Please Pay This Amount				

Sponsorship options are current at the time of distribution of this program.

* Please advise if a table and mains power is required for your trade display.

For those placing **Advertisements** in the handouts, please supply **80 printed copies** of the advertising material by **18 October 2019**.

Preferred Registration Option



Please register Online at:

<https://www.irse.org.au/ecommerce/sponsorship-end.html>

Alternative Methods of Registration



John Skilton +64 21 379 392



Please email completed forms to nz@irse.org.au

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Sponsorship Opportunities (continued)

Alternate non-preferred method

Company Details	
Company Name
Company Address

Contact Person
Telephone
Facsimile
Email *
* Mandatory field	

Method of Payment	
<input type="checkbox"/>	Cheque – Enclosed is our cheque for \$ _____ in favour of IRSE Australasian Section Inc.
<input type="checkbox"/>	Please debit my <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> AMEX
<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Expiry Date:	<input type="text"/> / <input type="text"/>
Cardholders Name:	_____
Signature:	_____

**NB. Event sponsorships will be allocated on a strictly first come first served basis.
Sponsorship payments are non-refundable.**



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Accommodation – Hotels in the Wellington Area – other establishments available

Wellington is a compact city and there are a number of accommodation options within easy walking distance of the Technical Meeting venues. Some options are highlighted below.

All accommodation bookings are to be made directly with the hotels. *Prices correct at the time of publishing.*

	<p>Intercontinental Hotel Wellington 2 Grey Street, Wellington, 6011</p> <p>Phone: +64 4 472 2722</p> <p>Room Only: From NZ\$238 per night</p>
	<p>West Plaza Hotel Wellington 110 Wakefield Street, Wellington, 6011</p> <p>Phone: +64 4 473 1440</p> <p>Room only: From NZ\$167 per night</p>
	<p>Mercure Wellington Central City Hotel Apartment 130 Victoria Street, Wellington, 6011</p> <p>Phone: +64 4 385 4166</p> <p>Room only: From NZ\$184 per night</p>
	<p>The Setup on Manners Serviced Apartments 57 Manners Street, Wellington, 6011</p> <p>Phone: +64 4 830 0990</p> <p>Room only: From NZ\$109.00 per night</p>
	<p>CQ Hotels Wellington 223 Cuba Street, Wellington, 6011</p> <p>Phone: +64 4 385 2156</p> <p>Room only: From NZ\$135.00 per night</p>