

# IRSE

Institution of Railway Signal Engineers  
Australasian Section

**IRSE Technical Meeting – November 2018**

**Sydney, New South Wales**

**CONFERENCE PROGRAM**



**INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

**TECHNICAL MEETING**

**SYDNEY, NEW SOUTH WALES**

*“Advanced Signalling to Deliver our Transport Needs”*



**Friday 16 & Saturday 17 November 2018**

**Powerhouse Museum**

**500 Harris St, Ultimo**



## IRSE Technical Meeting – November 2018 Sydney, New South Wales CONFERENCE PROGRAM

<b>Day One: Technical Meeting</b>			
Friday 16 November			
<b>Powerhouse Museum</b>			
	08:00	<b>Conference Registration Coffee &amp; Tea</b>	
	09:00	<b>Conference Opening</b> Kaniyur Sundareswaran (Sundar) Chairman, IRSE Australasian Section	
	09:15	<b>Keynote Address:</b> <b>Steve Allday</b> Manager Communications and Rail Systems Sydney Metro	
	10:00	<b>Beyond the New Transformational Frontier: Digital Systems to enable 'More Trains, More Services' in Sydney</b> <b>Mark Smith, Steve Lemon</b> TfNSW <b>Doc Frank Heibel</b> Doc Frank Rail Services	
			
	10:30	<b>Optimising ETCS for busy suburban railways</b> <b>Noel Burton</b> Siemens Mobility	
	11:00	<b>Morning Tea</b> Trade Display Area	
	11:30	<b>Safety and Reliability in Signalling Systems</b> <b>Joe Shead</b> Ansaldo-ST5	
	12:00	<b>Advanced Signalling on a Freight Network</b> <b>Bill Palazzi</b> PalazziRail	
	12:30	<b>Lunch</b> Trade Display Area	
	13:45	<b>We're not in Kansas now, Toto - Rolling Stock signalling compliance assessment in 2019</b> <b>Paul Szacsvey</b> SNCL	
	14:15	<b>A comprehensive approach to control and minimize squat defects in a railway network</b> <b>John McLeod</b> Sydney Trains	
	14:45	<b>Afternoon Tea</b> Trade Display Area	
	15:30	<b>Automating ETCS for enhanced capacity and performance</b> <b>Charles Page &amp; Bernhard Stamm</b> Siemens Mobility	
	16:00	<b>Advanced Signalling Systems for High Density Applications</b> <b>Fabio Senesi</b> FS spa Holding - RFI spa Technical Department <b>Federico Nardi</b> Ansaldo STS	
	16:30	<b>Closing remarks from the Chair</b> Kaniyur Sundareswaran (Sundar) Chairman, IRSE Australasian Section  <b>Close of Day 1 Technical Sessions</b>	
	17:00	<b>Australasian Committee Meeting</b> Novotel, Sydney Central Lavendar Bay Room	
	19:00	<b>Pre-Dinner Drinks</b> Novotel Sydney Central The Ballroom	
	19:30 22:30	<b>IRSE Conference Gala Dinner</b> Novotel Sydney Central The Ballroom	



## IRSE Technical Meeting – November 2018


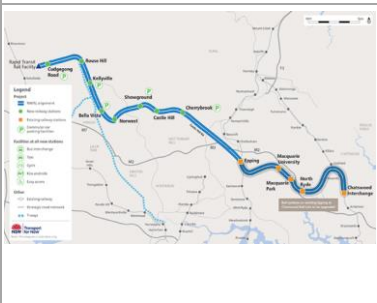


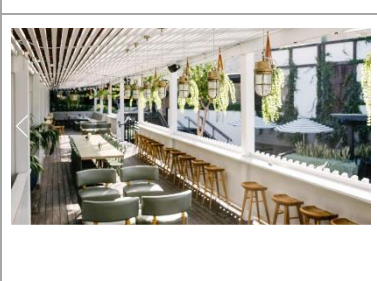
### Sydney, New South Wales

### CONFERENCE PROGRAM

**Day Two:** Saturday 17 November 2018

### Technical Site Visits

“Advanced Signalling to Deliver our Transport Needs”

	<p>08:00 <b>Board Coach</b> opposite to Novotel Central (Thomas Street) <i>PPE Requirements:</i> <i>Long sleeve shirt, long pants, orange hi-vi vest, hard hat, safety glasses and sturdy enclosed footwear are required.</i> Groups: <b>RED, BLUE and YELLOW</b> Groups will swap over sequentially for the 3 locations. Detailed timetable and grouping will be provided on 16th November 2018.</p>
	<p>09:15 to 13:00 <b>Operational Control Centre and Administration Buildings</b> <b>This new high-tech facility will control the state-of-the-art Sydney Driverless Metro System to be introduced in the middle of 2019.</b> Including a Tea Break Specialist Sydney Metro Control Centre staff will constantly manage the entire metro system, monitoring the service and assets to deliver a safe and reliable journey, and interact with the customers. All Sydney Metro operations will be run from this purpose built facility at Rouse Hill, including fully automatic train stabling, state-of-the-art maintenance facilities and an Operations Control Centre.</p>
	<p>09:15 to 13:00 <b>Train maintenance</b> <b>Train washing, Inspections and Repairs, Major Train Maintenance and Wheel Maintenance</b> Trains are washed in an automated train wash a minimum of twice a week with up to 95 per cent of the water recycled. The facility is set to operate 24 hours per day, seven days a week. To minimise noise, train maintenance activities are carried out in an acoustic enclosure. <b>Train stabling</b> This is used outside peak periods and between the last service and the first service the next day. Trains will be remotely shutdown once the train has been stabled and then cleaned. The stabling area is set to operate 24 hours per day, seven days a week.</p>
	<p>09:15 to 13:00 <b>Tallawong Station</b> Tallawong Station is located in a cutting, open to the sky, but about six metres below street level. The station is parallel to Schofields Road between Cudgegong Road and Tallawong Road. It has:</p> <ul style="list-style-type: none"> <li>• 1000 commuter car parking spaces</li> <li>• 4 spaces for buses, 9 taxi spaces</li> <li>• 15 kiss-and-ride spaces</li> <li>• Parking and storage for 55 bicycles</li> </ul>
	<p>LUNCH 13:15 to 15:15 The Fiddler, Rouse Hill - Bistro classics in a restored 1820s Irish pub with several bars and outdoor areas.</p> <p>16:30 Arrive at <b>Sydney Airport</b>, if required, otherwise continue to hotel <b>Note:</b> Do not book flights with a departure earlier than <b>17:30</b> hours. If you do, you will need to make your own arrangements to get to the airport.</p> <p>17:30 Arrive at Novotel Central, Thomas Street, Sydney</p>





**IRSE Technical Meeting – November 2018**  
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**Registration Details**

**The Institution of Railway Signal Engineers**

*Australasian Section Inc.*

**Sydney Technical Meeting: 16 – 17 November 2018**

*IRSE Members – Please use the IRSE Website*

Registration Details	Reference Number	Cost Per Delegate
<b>Full Registration</b>		
<i>MEMBERS - Includes conference, lunch &amp; dinner on Friday, technical visits &amp; lunch on Saturday.</i>		
IRSE Member	REG-ALL-OPT04	\$300.00
Non-IRSE Member	REG-ALL-OPT05	\$400.00
Retired IRSE Member	REG-ALL-OPT06	\$140.00
<b>Partial Registration</b>		
IRSE Member – Friday Technical Conference	REG-FRI-MEET-01	\$160.00
Non-IRSE Member – Friday Technical Conference	REG-FRI-MEET-02	\$260.00
Retired IRSE Member – Friday Technical Conference	REG-FRI-MEET-03	FREE
Conference Dinner – Friday	REG-FRI-DNNR-01	\$110.00
Technical Visit (including lunch) – Saturday	REG-SAT-SITE-01	\$80.00
Technical Paper Principal Author (1 only) - Friday Technical Conference	REG-FRI-MEET-05	FREE
Conference Dinner – Friday – Technical Author (1 only)	REG-FRI-DNNR-02	FREE

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## IRSE Technical Meeting – November 2018 Sydney, New South Wales CONFERENCE PROGRAM

### Registration Details (continued)

All Registrations are via the IRSE Website – [www.irse.org.au](http://www.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 [registration@irse.org.au](mailto:registration@irse.org.au)
- For any general enquiries about the Technical Meeting please contact Georgina Hartwell at [sydney@irse.org.au](mailto:sydney@irse.org.au)

**PPE requirements – for the Saturday Technical Site Visit:**

**Long sleeve shirt, long pants, orange hi-vi vest (preferably NSW), hard hat, safety glasses and sturdy enclosed footwear**

***Registrations close on 02 November 2018***

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 NSW 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 [sydney@irse.org.au](mailto:sydney@irse.org.au) to arrange the request.



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## Sponsorship Opportunities

### The Institution of Railway Signal Engineers

*Australasian Section Inc.*

### Sydney Technical Meeting: 16 – 17 November 2018

**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 [sydney@irse.org.au](mailto:sydney@irse.org.au)

Trade Display/Advertising/Event Sponsorship	Reference Number	Quantity	Item Cost	Total Cost
One A4 advertisement (can be double sided = 2 ads) #	SP-FRI-A4-1		\$275.00	
Two A4 advertisement (can be double sided = 4 ads) or Folded A3 #	SP-FRI-A4-2		\$375.00	
Trade display only *	SP-FRI-TD1		\$400.00	
Trade display and One A4 advertisement (can be double sided = 2 ads) * #	SP-FRI-TD1-A4-1		\$550.00	
Trade display and Two A4 advertisement (can be double sided = 4 ads) * #	SP-FRI-TD1-A4-2		\$650.00	
Friday Technical Meeting Morning tea break (including banner & mention)	SP-FR-02-MTEA		\$400.00	
Friday Technical Meeting Lunch (including banner & mention)	SP-FR-03-LNCH		\$600.00	SOLD
Friday Technical Meeting Afternoon tea break (including banner & mention)	SP-FR-04-ATEA		\$400.00	SOLD
Friday Technical Meeting Gala Dinner Drinks (including name on menu)	SP-FR-05-DRNKS		\$600.00	SOLD
Friday Technical Meeting Gala Dinner (including name on menu, banner(s) & short address opportunity).	SP-FR-06-DNNR		\$1,500.00	SOLD
Saturday Site Visit Morning tea break	SP-SA-02-MTEA		\$300.00	
Saturday Site Visit Lunch	SP-SA-03-LNCH		\$400.00	
Technical Meeting – USBs, loaded with technical papers, presentations and Ads <b>USB's to be supplied and programmed by Sponsor</b>	SP-TM-USB		\$0.00	
Technical Meeting Carry Bags – Fabric style <b>Supplied by Sponsor</b>	SP-TM-BAGS		\$0.00	
Technical Meeting - Pens <b>Supplied by Sponsor</b>	SP-TM-PENS		\$0.00	
<b>Please Pay This Amount</b>				

\* All Trade Display Tables will be provided with 240 volt mains power.

# For those placing **Advertisements in the handouts**, please supply **150 printed copies** of the advertising material by **2 November 2018**.

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

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## IRSE Technical Meeting – November 2018 Sydney, New South Wales CONFERENCE PROGRAM




### Sponsorship Opportunities (continued)

Sponsorship to be booked via the IRSE Website <https://www.irse.org.au/ecommerce/registration-end.html>

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"/> <input type="text"/> <input type="text"/>
Expiry Date:	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>
Cardholders Name:	_____
Signature:	_____

Preferred Registration Option	
 Please register Online at: <a href="https://www.irse.org.au/ecommerce/registration-end.html">https://www.irse.org.au/ecommerce/registration-end.html</a>	
Alternative Methods of Registration	
	 Please email completed forms to <a href="mailto:sydney@irse.org.au">sydney@irse.org.au</a>

**NB. Event sponsorships will be allocated on a strictly first come first served basis.**  
 Should you wish to avail yourself of these sponsorship opportunities please **Register Online** or complete this form and return by email as soon as possible.  
 Sponsorship payments are non-refundable.



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### Accommodation – Hotels in the Sydney Area – other establishments available

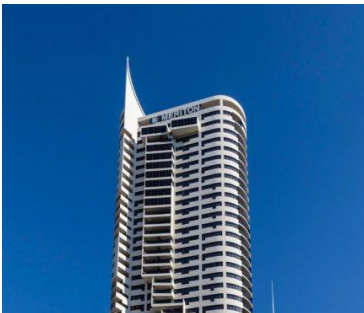
All accommodation bookings are to be made directly with the hotels. *Prices correct at the time of publishing.*



#### **Novotel Sydney Central – Conference Hotel**

169-179 Thomas Street, Haymarket  
Phone: 02 9281 6888

Delegates receive 10% off the best available public rate up to 30 days prior to the event date  
Contact Reservations on 02 9281 6888 and quote the IRSE Reservation code **INST1118\_001**  
**Breakfast:** A full breakfast buffet, served in the Field House Restaurant can be added at the time of booking for \$20.00 per person per day  
**Parking:** \$20.00 for day rate for delegates.



#### **Meriton Suites Kent Street, Sydney**

528 Kent Street, Sydney

Phone: 02 8263 5500

Room only: From \$171.00 per night



#### **Parkroyal Darling Harbour**

150 Day Street, Sydney

Phone: 02 9261 1188

Room only: From \$195.00 per night



#### **Sofitel Sydney Darling Harbour**

12 Darling Drive, Sydney

Phone: 02 8388 8888

Room only: From \$225 per night