

# Australasian Engineering Heritage Conference 2022

Harricks Auditorium, 44 Market Street, Sydney



Australasian  
Engineering  
Heritage  
Conference

## PROGRAM OF EVENTS

### WED 12 OCT

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**Session 1 Chair:** Mike Taylor FIEAust, Chair, Engineering Heritage Australia

09:30 - 09:45

**Welcome to Country, conference opening and introduction of keynote speaker**

09:45 - 10:30

**Keynote 1:** Howard Collins OBE, Chief Operations Officer, Transport for New South Wales  
**Transport and Communications: Looking Forward - Looking Back**

10.30 - 10.50

**MORNING TEA** | *Members Lounge*

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**Session 2 Chair:** Richard Muncey MIEAust, Deputy Chair, Engineering Heritage Australia

10:50 - 11:15

**The All-Red Line: The Pacific Cable and its significant role in international communications 1902-2022**  
Rex Glencross-Grant

11:15 - 11:40

**Francis Edwin Bradford (1869-1927) - Pioneer electric tramways engineer USA, Australia and New Zealand**  
Ken McInnes

11:40 - 12:05

**Electrification of Melbourne's Suburban Railway Network**  
Miles Pierce

12:05 - 12:30

**Routing Ligar – Developing a Shortcut to the Kiandra Goldrush**  
David Scott

12:30 - 13:30

**LUNCH** | *Members Lounge*

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**Session 3 Chair:** Merv Lindsay FIEAust FEngNZ, Immediate Past Chair, Engineering Heritage Australia

13:30 - 14:00

**Tesla - Accelerating the world's transition to sustainable energy**  
David Hughes

14:00 - 14:25

**Canal restoration – Applications for revitalised Australasian communities, tourism and the environment**  
Karen Wrigglesworth

14:25 - 14:50

**How river punts enhanced social connectedness in the Manning Valley of NSW**  
Rex Glencross-Grant

14:50 - 15:05

**Engineers Australia Centenary**  
Keith Baker

15:05 - 15:20

**AFTERNOON TEA AND BOOK SALES** | *Members Lounge*

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**Session 4 Chair:** Eamonn Madden FIEAust

15:20 - 15:45

**Earthquake vulnerability assessment and consolidation of historic masonry structures within heritage conservation principles**  
Gianluca Ranzi

15:45 - 16:10

**MUSEUM Station's Heritage is now accessible with new lifts**  
Peter Allen

16:10 - 16:35	<b>Dunedin Law Courts - Seismic Strengthening and Refurbishment</b> John Finnegan (Pre-recorded presentation)
16:35 - 17:00	<b>Modelling and monitoring 19th century masonry buildings subject to blast-induced ground vibration</b> Bill Jordan
17:00 - 17:30	<b>DAY 1 CONCLUDES with networking and book sales</b>
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17:30 : 21:00	<b>DINNER</b> - includes presentation of the 2019 Colin Crisp Awards; and Scott McGregor, train traveller and well-known TV personality. MC - Frank Johnson, Chair Engineering Heritage Sydney
<b>THUR 13 OCT</b>	<hr/>
	<b>Session 5 Chair:</b> Merv Lindsay FIEAust FEngNZ, Immediate Past Chair, Engineering Heritage Australia
09:00 - 09:05	<b>Welcome and introduction to keynote speaker</b>
09:05 - 09:45	<b>Keynote 2:</b> Pamela Henderson – Executive Director, Technical Services, Transport for NSW <b>Sustainable Infrastructure:</b> On the reuse of existing assets and heritage buildings to enable decarbonisation and transition to a circular economy
09:45 - 10:10	<b>Load histories for railway underbridges</b> Bill Phippen
10:10 - 10:35	<b>Dunedin's Mornington street cable-car system 1883-1957</b> Ian MacGregor
10:35 - 10:50	<b>MORNING TEA</b>   <i>Members Lounge</i>
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	<b>Session 6 Chair:</b> Mike Taylor FIEAust, Chair, Engineering Heritage Australia
10:50 - 11:15	<b>Electric - arc welding – from a cradle in Fitzroy to the world in a decade</b> Ken McInnes
11:15 - 11:40	<b>The Timber Truss Bridge Conservation Strategy and lessons in managing infrastructure assets</b> Denis Gojak
11:40 - 12:05	<b>By 2040 there will be no coal-fired power stations in the Hunter Valley. What should historians be doing now?</b> Ken Thornton
12:05 - 12:20	<b>Engineering Heritage Recognition Program - Sydney Opera House award of Engineering Heritage International Marker and an American Society of Civil Engineering Historic Civil Engineering Landmark</b> Bill Phippen and Richard Muncey
12:20 - 12:30	<b>Engineering Heritage Australia/University of Canberra Introduction to the recently launched short course on Heritage and Conservation Engineering</b> Glenn Rigden and Ian Maitland
12:30 - 13:00	<b>LUNCH</b>   <i>Members Lounge</i>
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13:00 - 13:30	<b>Travel to Central Station</b>
13:30 - 15:30	<b>AEHC 2022 WALKING TOUR - Choose between two options</b> Central Station Clock Tower Tour & World War 1 Memorial (use of over 300 stairs); or Central Station to inspect Underground Metro (PPE required)
15:30	<b>CONFERENCE CONCLUDES</b>