

**DOWN TO EARTH  
CONFERENCE  
2024**

# Registration Brochure

19–21 November 2024

Wrest Point Hotel Casino  
Hobart, Tasmania

A conference dedicated to earthing and lightning protection, facilitating the open exchange of information for novices and professionals, asset owners and suppliers.

**[DTEC2024.com](https://DTEC2024.com)**

The Australian Earthing Institute, will host the seventh Australian Down to Earth Conference (DTEC) from Tuesday 19<sup>th</sup>

through Thursday 21<sup>st</sup> November 2024 at Wrest Point Hotel Casino, Hobart, Tasmania.

**DTEC is the premier earthing conference in the oceanic region and provides opportunities for:**

- Earthing and lightning protection specialists to present their recent experiences and the latest advances.
- Opportunity to discuss recent developments in national and international standards.
- Electrical contractors to share installation, maintenance and testing practices.
- Engineers to publish peer-reviewed technical papers.
- Asset owners, regulators, educators, and interested engineers to increase awareness of issues significant in the field and discuss how they are being handled.
- Earthing practitioners, past conference attendees and people new to the field to get together and share experiences.
- Suppliers and consultants to showcase their capabilities and products.

**It is envisaged that the technical programme will consist of two components:**

- Presentation of **peer-reviewed papers** addressing recent advances in earthing and lightning protection-related fields. Accepted papers and conference presentations will be published in the conference proceedings.
- **Conference presentation** covering recent experiences such as technically challenging installations/designs, applications of tools/methods, report on any incidents of wider interest, provide updates on research topics and introduce any new tools/materials. Conference presentation papers will be published in the conference proceedings.

For any questions regarding the conference please email [registrations@DTEC2024.com](mailto:registrations@DTEC2024.com)



# Timetable

## Tuesday 19<sup>th</sup> November

18:00 – 20:00

Welcome Reception and Registration

## Wednesday 20<sup>th</sup> November

08:30	Opening Plenary	<b>Welcome and Opening</b>		
09:00		<b>Case Study: Control of Induction Hazards in 220kV Overhead Transmission Networks</b> - Jak Murphy & Sam Abetz		
09:30		<b>What Could Possibly Go Wrong? Mistakes and Misadventures in Earthing</b> - Bill Carman		
10:00	MORNING TEA			
10:30	Transmission & Distribution	<b>Earth Fault Current Analysis for Complex Power Cable Transmission Lines</b> - Edstan Fernandez	Lightning	<b>Space Charge and Air Terminal Efficacy - The Importance of Corona Minimisation</b> - Franco D'Alessandro
11:00		<b>Best Practice Distribution Earthing Design</b> - Gordon McMurray		<b>Surge Protection: An Integral Part of Lightning Protection Design</b> - Bill Schlesinger
11:30		<b>Residential Developments: Are We Doing Enough?</b> - Nicholas Johnston		<b>A Carbon Footprint Study of Conventional and Advanced LPS</b> - Paul Hollingsworth
12:00		<b>How Engineering and Economic Challenges from Over 100 years ago have Impacted the SA Distribution Earthing System to this Day</b> - Daniel Snodgrass		<b>Lightning Damage to In-Floor Heating Systems: A Case Study</b> - Jim Bishop
12:30	LUNCH			
13:00				
13:30	Testing	<b>Comparative Field Analysis of Soil Resistivity Test Equipment: Evaluating Performance, Accuracy and Features</b> - Joshua Bowman	Rail/Standards	<b>Keeping People Safe from Electric Shock in the DC Rail Environment</b> - Andrew Russack
14:00		<b>Modelling a Fall of Potential Earthing Grid Impedance Test</b> - Jayson Patrick		<b>Earth Testing in the 25kV Rail Environment</b> - Gurumoorthi Saravanan
14:30		<b>Injection Testing - The Right Injection Circuit</b> - Brendon Gannon & Leigh Shepherd		<b>The Australian Safety Criteria Evolution - 14 Years On</b> - Bill Tocher
15:00	AFTERNOON TEA			
15:30	Testing	<b>Understanding the Loop Impedance Test</b> - Ben McMurray	Design	<b>How to Design an Effective Earthing System when Design Inputs are Challenging</b> - Ama Wanigasinghe
16:00		<b>Inductive Coupling Effects on Soil Resistivity Testing</b> - Dante Stanoke & Uzair Khan		<b>Earthing Design Accuracy, Precision, Quality and Safety, a Discussion of the Interrelationship of Each</b> - Peter Sebire
16:30		<b>Understanding the Relationship Between CIT Circuit and Real Earth Fault Circuit</b> - Philip Chau		<b>Experiences of an Engineer New to Earthing</b> - Raj Nagar
18:30	Pre-Dinner Drinks			
19:00	Conference Dinner			

# Timetable

## Thursday 21<sup>st</sup> November

08:30	Installations	<b>Jettysoned Earth Potential Rise - A Manapouri Shock Investigation</b> - Patrick Coombe	Testing / Transients	<b>Feeder Performance Testing Safety</b> - Matthew Lee
09:00		<b>Indirect Electric Shock Around Pools, Showers and other Aquatic Settings</b> - Matthew Bale		<b>Asperity Model for Electrical Connections</b> - Rohit Narayan
09:30		<b>Earthing at Data Centre Facilities</b> - Bill Schlesinger		<b>Control of Transient Touch Voltages During Switching</b> - Peter Stepien
10:00	MORNING TEA			
10:30	Transmission & Distribution	<b>Evaluating Earth Switch Bonding Configurations - What is Good and What is Bad?</b> - Darren Woodhouse	Lightning	<b>3D Software Implementation of Air Terminal Placement Methods</b> - Sabrina Sequeira
11:00		<b>Theft Deterrent Alternatives to Copper in Power Utility Earthing</b> - Nilesh Singh		<b>Lightning Detection Systems and Lightning Warning Systems: Similarities, Differences and Applications</b> - Franco D'Alessandro & Bill Carman
11:30		<b>Capacitive Coupling from Transmission Lines</b> - Philip Boys		<b>Smart Surge Protection Devices</b> - Mike Austin & Phil Wherrett
12:00		<b>Comparison of Earthing Connections used in Utility Transmission and Distribution Applications</b> - Nilesh Singh		<b>Lightning Protection of Autonomous Vessels</b> - Franco D'Alessandro
12:30	LUNCH			
13:00				
13:30	Interference	<b>The Coaxial Dilemma and the History of Inductance</b> - Darren Woodhouse	Renewables / Standards	<b>Electrical Earthing Considerations when Designing BESS Near Major Substation and Nearby PV Farms</b> - Julien Brousseau
14:00		<b>Understanding the Practical Mitigations for a Pipeline's Electrical Hazards</b> - Rowan McMurray		<b>Earthing Conductor Selection for Utility-scale Solar Farms</b> - Jayson Patrick
14:30		<b>Applying Quantified Risk to the Assessment of Earthing Hazards to Telecommunications Personnel</b> - Nick Smith		<b>Electrical installations: Extra-Low Voltage D.C. Power Supplies and Service Earthing within Telecommunications Networks</b> - Rohit Narayan
15:00	AFTERNOON TEA			
15:30	Closing Plenary	<b>Expert Panel (45 mins)</b>		
16:00		<b>International Earthing Developments and How They'll Impact Australia</b> - Stephen Palmer		
16:30		<b>Group Session Q&amp;A &amp; Closing (45mins)</b>		

Note: Detailed schedule may be subject to change.

## Location

The Wrest Point Hotel and Conference Centre is a stunning waterfront facility located adjacent to River Derwent in Sandy Bay. Wrest Point is Australia's first purpose-built Conference venue boasting state-of-the-art facilities with everything you need under one roof. Free parking for guests and the option of public transport available to take you to Salamanca or Hobart CBD, just five minutes away.

## Conditions and Cancellations

**Conference:** If you cannot attend the conference, a substitute delegate is welcome at no extra charge. Where no substitute is available a fee of \$110 (inc. GST) will be deducted from your registration fee for cancellations received in writing at least 30 days before the event.

A 50% refund will be given if cancellations are received in writing between 30 and 14 days before the event. After that, no refunds will be made, but conference documentation will be sent by mail following the event.

**Hotel Bookings:** The Wrest Point Hotel has offered conference attendees a 15% discount on the best available rate on accommodation for the conference dates, 19–21 November 2024. Please see the booking link below. All rooms are subject to availability and each guest will need to provide a credit card to confirm the reservation. Hotel cancellations will be subject to the hotel's cancellation policy.

**Booking link:** [Wrest Point Casino Hotel](#)

## Directions from Hobart CBD

Proceed southeast on Murray Street towards Bidencopes Lane and use the right two lanes to turn right onto Davey Street/A6. Turn left onto Molle Street and continue to Byron Street. Use any lane to turn right onto Sandy Bay Road/B68 for 1.6 km to Wrest Point.

## Airport Transfers

The easiest option from Hobart Airport is the 22-minute ride in a taxi to Wrest Point. If you'd prefer to travel this short journey in luxury, hire cars and other luxurious vehicles are available to book online and pick up at the airport.

## Program Changes

The program of papers and speakers may be subject to change. Please refer to the DTEC website for updates.

## Registration

To register for the conference please visit our website or click the link below. You can also subscribe to our newsletter to be notified of future events.

**Registration link:** [DTEC website](#)

## Sponsorship

Please direct enquiries for sponsorship and exhibition opportunities to [registrations@DTEC2024.com](mailto:registrations@DTEC2024.com).

## Information

Please refer to the DTEC website [DTEC2024.com](https://DTEC2024.com) for the latest news, or follow us on LinkedIn: [linkedin.com/company/downtoearthconference/](https://linkedin.com/company/downtoearthconference/)

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