DOWN TO EARTH CONFERENCE 2024

Call for Papers & Presentation Abstracts

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

The Australian Earthing Institute, will host the seventh Australian Down to Earth Conference (DTEC) from Tuesday 19th through Thursday 21st 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

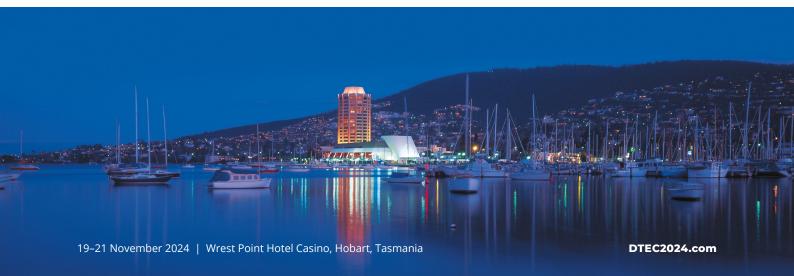
- published in the conference proceedings.
- Conference presentation covering recent experiences such as technically challenging installations/designs, applications of tools/ methods, report on any incidents of wider interest, provide updates on research topics and introduce any new tools/materials.
 Conference presentation papers will be published in the conference proceedings.

Keynote speakers and invited papers will provide an opportunity for participants to hear from a range of professionals, including suppliers, designers, users, researchers and academics. The conference will include an industry exhibition during all breaks. The anticipated technical streams follow over the page.

Upon acceptance of your paper abstract, you will receive a detailed speaker's kit outlining the next steps to take for submission of the final paper and your presentation at the conference.

Please submit abstracts of up to 400 words to submissions@DTEC2024.com or contact the technical chair.

Technical Chair DTEC Committee registrations@DTEC2024.com



Important Dates, General Policies & Requirements

Final date for abstracts	1 May
Notification of acceptance of abstract/presentation	1 June
Final date for receipt of papers	1 August
Notification of acceptance of paper	1 September
Final date for Presenting Author registration	16 September
Final date for submission of presentation and revised paper	15 October
Conference date	19–21 November

General Policies & Requirements

- All authors must read and accept the copyright licence agreement contained in the speaker's kit.
- Peer review of full manuscripts will take place. Papers submitted after the cutoff date cannot be peer-reviewed.
- Submission acknowledges consent to publication of your abstract in the conference program book.
- All papers will be published in the conference proceedings.
- The presenting author will be required to register for the conference and submit a full paper to ensure their presentation is included in the final program. Presenters who have not registered by the deadline date time will be removed from the program.
- All papers must be original work. A paper intended for peer review should not be submitted if the work is to be published or presented at a major national or international meeting before the Down to Earth Conference.
- All peer-reviewed papers must be submitted to submissions@DTEC2024.com

- A paper must contain sufficient information so that it will be a complete report independent of presentation if published. The paper should not contain statements alluding to results or conclusions that are not presented within the paper.
- All papers must be prepared according to the template provided in the speaker's kit.
 Abstracts and papers will only be accepted and published if submitted using the correct format in the supplied template.
- There is no limit to the number of papers that an individual may submit but the technical committee reserves the right to limit the oral presentations to one per person.
- The conference managers will not be held responsible for paper submissions not received or for submission errors caused by internet service outages, hardware or software delays, power outages or unforeseen events.
- DTEC is primarily a face-to-face conference. Alternative arrangements may be sought where government orders or restrictions relating to COVID-19 prohibit presenters from attending. For further information, please email questions to enquiries@DTEC2024.com

Topics

Compliance Analysis _____

- Standards development present & future
- Best practice relevance of standards & regulations
- · Installations with multiple earths
- · Special installations or circumstances
- · Application of risk management principles
- · Coordinating between standards
- Consequences of electric shock to humans and animals

Protection -

- Earth fault protection schemes
- · Earth fault detection
- · Coordination with touch and step requirements
- Current sensor technologies
- Recorded fault events

Construction _

- Sizing of conductors
- Parasitic & stray currents
- Interference
- Corrosion
- · Equipotential grids
- Control of static

Lightning _

- · Shielding Design
- Down conductor installation and termination
- · Grid design
- Bonding arrangements
- Interference with secondary systems
- Probabilistic design
- Transient earth potential rise
- · Damage mitigation

Industries _

- Rail
- Utilities
- Mining
- Tunnelling
- Renewables

Risk Idendification & Management —

- ALARP vs SFAIRP
- Risk mitigation
- Cost vs risk
- · Probabilistic design
- · Coincidence to measure or to estimate
- · Public or personally imposed risk
- · Modelling techniques

- · Mapping of legislative requirements
- Mutual effects
- · Reliance on earth system interconnections
- · Earth potential rise

Interference.

- Telecommunications
- Conveyors
- Rail
- Pipelines
- Electrolysis
- · Mining supplies

Testing

- · Soil resistivity
- · Earth loop impedance
- Grid resistance
- · Hazard assessment
- · Correlation with design
- Procedures consistency, efficiency and accuracy
- Equipment
- · Earth continuity
- Case studies
- · Identification of anomalies
- · Fortuitous connections
- Incident investigations

Installations _

- High voltage installations
- · Low voltage installations
- · Augmentation of buried grids
- Renewables solar, wind, etc.
- · Embedded generation
- · Geotechnical issues
- Power station and large industrial complexes
- Underground and open cut mines
- · Marine & offshore
- Mobile plant
- · Rail networks
- · Project coordination
- Hazardous areas
- Safe work procedures

Electrolysis & Infrastructure Protection

- Electrolysis management/mitigation
- Cathodic protection
- · Corrosion protection