

Earthing and Power Systems - Tips and Traps



ENGINEERS
AUSTRALIA

Hosted by: Joint Electrical Electronic Papers and the Electric Energy Society of Australia

DATE

Wednesday 14 May 2014

TIME

5.45 pm

VENUE

Auditorium
Engineers Australia
712 Murray Street
West Perth

TICKETS (incl. GST)

EA, IEEE, IET & EESA Members
& Students: Free
Non-members: \$30.00

REGISTRATIONS CLOSE

Tuesday 13 May 2014

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Representing the ITEE
Panel



Few topics generate as much confusion and controversy as that of earthing and its application to our electrical power systems. Different approaches have been used around Australia and the benefits of one approach at one site have been found to be totally unsuitable at another site.

Poor earthing practices can result in issues from lightning and induction surges, bonding and shielding failures, MEN link arguments and spurious or absent protection system tripping. Often these are sporadic and difficult-to-diagnose problems in a facility and yet some simple approaches can provide clues to avoid many of the problems of this often misunderstood area.

The Electric Energy Society of Australia and Engineers Australia is providing a forum for the sharing of experiences and provide some useful Tips and Traps for better earthing on your next job.

The evening will start with a brief talk at 5:45 on:

- the effects of electrode placement and earth improvement techniques;
- the impact of different shielding earthing for both power and electronics systems
- earth potential rise, separation of earthing systems & risk issues
- different measurement techniques
- fault current impact on step and touch potentials and neutral earthing
- different sites and different earthing goals

A moderator will then invite questions or case studies from the audience for comment by a panel of experienced engineers.

The aim of the evening is to show the variety of considerations that may apply and how one method is not suitable for all situations. The discussions often show how design objectives may change to make a particular installation safer depending on the conditions encountered and even depending on the business of the owner.

The panel will not be providing any designs but will suggest approaches or resources that should be useful for many. The evening will move along at a fast pace

Refreshments will be provided at the end of the evening for informal discussions after the talk.

About the Panel Members

Each of the panel members has extensive experience in many of the problems encountered in this diverse field and will be able to supply viewpoints that you may have not considered.

