



IEEE (PI)² Workshop: Grounding and Protection Requirements for Electrical Engineers

Wednesday, March 27 & Thursday, March 28, 2019 8:00AM to 5:00PM

Austin Scottish Rite Theater

207 W. 18th Street, Austin, TX 78701



Workshop:

This two-day workshop will provide educational instruction for electrical engineers and electricians. Fundamentals around grounding will be covered as well as ground fault protection and detection, ground-fault currents, ground grid testing, and NEC 2017 related requirements important for the design engineer. Practical and theoretical instruction for electrical engineers will be presented to help increase the likelihood of proper system design for performance and compliance with the NEC grounding and bonding requirements. The Workshop is formatted for Electrical Engineers and Designers of electrical systems which are governed by the NEC, and is highly recommended as a review supplement for those preparing to take the Electrical P. E. exam. In addition, there will be exhibits by industry manufacturers and suppliers.

The workshop fee includes breakfast tacos, breakfast beverages, break refreshments, and a copy of **Soares Book on Grounding and Bonding, 13th Edition**. Door prizes will be offered.

Attendees are advised to bring a laptop, an engineering calculator, and a copy of the 2017 NEC, either electronic or paper.

Upon completion of the workshop, participants will receive a PDH certificate for sixteen hours.

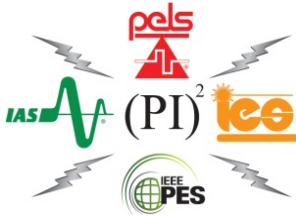
Instructor:



Mr. Thomas A. Domitrovich is an Electrical Engineer within Eaton Corporation's electrical group with experience in engineering, sales & marketing, business development and product management. Domitrovich is actively involved with various electrical industry organizations and most recently has focused on the continued growth of electrical safety. Mr. Domitrovich is an author with a wide range of trade magazine articles including columns in two industry trade magazines focused on electrical safety. He sits on NFPA Code Making Panel 2 for the continued development of the National Electrical Code (NFPA 70). He is also on the NFPA committee for the continued development of NFPA 73 and chairs various committees for other electrical industry organizations. Mr. Domitrovich is a

IEEE Power & Energy, Power Electronics, Industry Applications
and Industrial Electronics Societies – Austin Joint Chapter

LEED® Accredited Professional, a licensed Professional Engineer and holds a Bachelor of
Electrical Engineering from Gannon University.



Registration & Cost:

Membership Status	Through 3-07-2019	After 3-07-2019
IEEE Members	\$250.00	\$450.00
Non-IEEE Members *	\$450.00	\$650.00
IEEE Life Members, Students	\$150.00	\$250.00

* Become an IEEE member and enjoy the substantial IEEE member discount!

Registration and payment for this workshop must be completed at <https://events.vtools.ieee.org/m/184757>. Registration and payment for this workshop must be completed by Wednesday 3/20/2019, 11:59 PM to ensure you will have the class materials in time for the workshop. Monday 3/25/2019, 11:59 PM is the final day for registering.

All cancellation and refund requests must be submitted in writing and received by James Mercier at the address above **prior to March 18**. There will be a 20% processing fee charged for all refunds.



Schedule, Location, Contact & Other Information

Schedule Wednesday March 27

07:00am – 08:00am Registration, Breakfast, Coffee, Networking

08:00am – 08:15am Opening, Speaker Introductions

08:15am – 11:30am Thomas A. Domitrovich -

The syllabus is based on Soares Grounding table of contents. Items in **bold** are additional subjects:

- General Fundamentals
- To Ground or Not to Ground
- Grounding Electrical Systems
- Grounding Electrical Services
- Main Bonding Jumpers and Bonding at Services
- The Grounding Electrode System

11:30am – 12:30pm Lunch break (Several venues within walking distance.)

12:30pm – 4:45pm Thomas A. Domitrovich

- Grounding Electrode Conductors

4:45pm – 5:00pm Daily Wrap-Up and Q&A

5:00pm – 6:00pm Visit Supplier Displays & Networking

Schedule Thursday, March 28:

07:30am – 08:00am Registration, Breakfast, Coffee, Networking

08:00am – 11:30am Thomas A. Domitrovich

- Bonding Enclosures and Equipment
- Equipment Grounding Conductors
- Enclosure and Equipment Grounding
- Clearing Ground Faults and Short Circuits
- Grounding Separately Derived Systems
- Grounding and Bonding at Buildings or Structures Supplied by Feeders or Branch Circuits

11:30am – 12:30pm Lunch break (Several venues within walking distance.)

12:30pm – 1:30pm James J. Mercier, P.E. - **Practical Details on Ufer Grounds**

1:30pm – 4:45pm Thomas A. Domitrovich

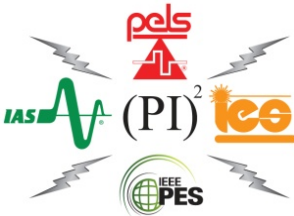
- Ground-Fault Protection
- Grounding and Bonding for Special Locations
- Grounding and Bonding for Special Conditions
- Grounding and Bonding for Alternate Energy Systems
- Grounding and Bonding for Electronic Equipment
- Low-Voltage and Intersystem Grounding and Bonding
- Grounding of Systems or Circuits of Over 1000 Volts

IEEE Power & Energy, Power Electronics, Industry Applications
and Industrial Electronics Societies – Austin Joint Chapter

Substation ground grid testing

4:45pm – 5:00pm Wrap-Up and Q&A, Door Prizes

Location:



The historic Austin Scottish Rite Theater is located at 207 W. 18th Street, Austin, TX 78701. The building was erected in 1871 as Turner Hall, also known as the German Opera house.

Parking is available at the Bob Bullock Museum garage, one block east on 18th Street. **NOTE: 18th Street is one-way west!** Bring the parking receipt to the Workshop Treasurer for reimbursement.



Contact & Other Information:

If you have any questions or need any additional information about the workshop, please contact James Mercier at jmercier@ieee.org.

James Mercier, IEEE
518 Academy Drive
Austin, TX 78704