

# 2022 IEEE IAS Electrical Safety Workshop Program and Schedule

Revised February 22, 2022  
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based on conditions  
Check EventMobi for future changes

## Sunday March 6

12:00n–5:00 ESafeC Executive Subcommittee Meeting (by invitation only) [Virtual Meeting](#)

## Monday March 7

### Local Tours

9:15 am Second bus leaves for tour of Northside Generating Station – Jacksonville Electrical Authority

### IEEE Standards Meetings:

8:30-9:30am **Electrical Safety Risk Assessment.** Proposed Project Authorization Request Pre-PAR Exploratory Meeting. The purpose of this meeting is to explore interest in developing a PAR Study Group on this topic. [River Terrace 2](#)

10:00-11:00am **Electrical System Design Techniques to Improve Electrical Safety.** Proposed Project Authorization Request Pre-PAR Exploratory Meeting. The purpose of this pre-PAR study group meeting is to explore interest in developing a PAR or PARS to limit scope associated with the previous P1814 PAR. The intent of the new PAR(s) is to quickly publish parts of the document already developed specific to the new PAR generated for each. The intent of these Recommended Practices is to address system and equipment design techniques and equipment selection that will improve electrical safety. The techniques in these Practices will be intended to supplement the minimum requirements of installation codes and equipment standards. [River Terrace 2](#)

1:00pm-3:00pm **IAS Electrical Safety Committee Annual Meeting (ESafeC)** – All are welcome. [River Terrace 2](#)

3:00pm **ESafeC Subcommittee Meetings.** All are welcome to attend any subcommittee meeting.

3:00pm **Government, Regulator, Inspectors and Laboratory Subcommittee.** [City Terrace 4](#)

3:00pm **Academic Subcommittee.** [City Terrace 5](#)

3:00pm **Industry Segment Development Subcommittee.** [City Terrace 6](#)

3:00pm **Construction Subcommittee.** [River Terrace 2](#)

3:00pm **Technical Subcommittee.** [City Terrace 7](#)

3:00pm **Electrical Safety Workshop Subcommittee.** [City Terrace 8](#)

4:30pm **Occupational Safety and Health Subcommittee.** [City Terrace 4](#)

4:30pm **Early Career Development Subcommittee.** [City Terrace 5](#)

4:30pm **International Subcommittee.** [City Terrace 6](#)

4:30pm **Paper Review Subcommittee.** [City Terrace 7](#)

4:30pm **Standards Subcommittee.** [City Terrace 8](#)

6:00pm-8:00pm **SIEMENS Hospitality, [Grand Ballroom 6](#)**

### The ESW registration & information desk hours Grand Foyer 2<sup>nd</sup> Floor

Hours: Monday 11:30AM to 4:30PM; Tuesday & Thursday 7:30AM to 4:30PM; Wednesday 7:30AM to 3:00PM; Friday 7:30AM to 1:00PM

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## Tuesday, March 8

07:00-08:00 **Tutorial Leader Breakfast;** Orlando (by invitation)  
8:00-12:00n **Tutorial 1: Applying Power of Prevention through design in Your Electrical Safety Program;** Rene' Graves. [City Terrace 7](#)  
8:00-12:00n **Tutorial 2: Construction Site Safety – Tools for coordinating with all trades;** Christopher Fink, Vincent H Leffler, Mike Doherty. [River Terrace 3](#)  
8:00-12:00n **Tutorial 4: System Grounding Methods for Petroleum and Chemical Facilities- Resistance Grounding Benefits;** Sergio Panetta, Ajit Bapat. [River Terrace 2](#)  
11:00–1:30 **Companions' Luncheon;** [Mathews, 4<sup>th</sup> Floor](#). (by invitation)  
12:00 noon **Tutorial Lunch;** [Conference Center B](#). For **Tutorials 2, & 4** registrants only.  
12:00 noon **Authors' & Student Luncheon;** [Orlando](#) (by invitation)

## ESW 2022 Opening Session

1:00pm ESW2022-01: **Introduction to ESW 2022;** Thomas Domitrovich, Chair ESW 2022  
1:30pm ESW2022-02: **Electrical Safety Workshop: 30 Years and Counting;** Thomas Domitrovich  
1:45pm ESW2022-03: **ESW 2022 Keynote: Shock Culture;** Dr. Neil Pleskin, Dr. Raphael Lee  
2:30pm ESW2022-04: **Hidden Danger: Reducing Residual Risk in Your Electrical Safety Program;** Lanny Floyd  
3:15pm **Refreshment Break**  
3:30pm ESW2022-05: **Normal Operating Condition Examined;** Al Havens  
3:45pm ESW2022-06: **Analysis of NFPA 70E, Table 130(C)(15)(a) Using IEEE 1584-2018;** Marcelo Valdes, Paul Sullivan, Remi Halle  
4:30pm ESW2022-07: **Student Focus Session Introduction,** Payman Dehghanian

- Kaynat Zia, The University of Texas at Arlington: **Zero Bouncing Circuit Design for Li-ion Battery Short Circuit Testing**
- Shiva Pooladvand, Purdue University: **How Risk Compensation, Time Pressure, and Cognitive Demand Can Make Electrical Safety Interventions Less Effective?**
- Mohannad Alhazmi, George Washington University: **On the Resilience of Interconnected Water-Power Networks Under Seismic Extremes**
- Mohammad Mansour, University of Nevada Reno: **Fault Location in Active Distribution Grids with Graph Neural Network to Enhance Electric Safety**
- Meng Zhao, University of Pittsburgh: **A Real-Time Fault Localization in Power Distribution Grid for Detection of Electrical Fires through Deep Neural Networks Learning**

5:30-6:00pm **First Time Attendees' Get Together –** [St Johns Meeting Room 3<sup>rd</sup> Floor](#)

6:00–8:00pm

## Welcome Reception and Student Posters

Grand Foyer

*“Prevention through Design Student  
Engineering Initiative Presentations”*

(5:00pm – 7:00pm)

8:00pm-10:00 pm **EXERTHERM Hospitality,** [River Terrace 3](#)

## Wednesday, March 9

7:00am **Workshop Breakfast:** Grand Foyer

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- Authors' Breakfast, [Boardroom 1, 3<sup>rd</sup> Floor](#) (by invitation)
- 7:45am Early Bird Prize Draw
- 8:00am ESW2022-08: **The Practice and Effectiveness of Equipotential Zone “EPZ” Grounding – Safety Reality or Pipe Dream?;** George T. Cole
- 8:45am ESW2022-09: **Why Be Concerned About Electrical Safety and What Impact It May Have on Business Cost;** Joe Rachford
- 9:00am ESW2022-10: **Challenge Accepted: Specialty PPE for Shock and Arc Flash Protection;** Hugh Hoagland, Brian Shiels, Stacy Klausing
- 9:45am **Refreshment Break**
- 10:15am ESW2022-11: **Sensitivity Analysis of EPRI Overhead HV Line Arc Flash Model;** Marvin Antony Devadass
- 11:00am ESW2022-12: **Who Is Getting Hurt? Understanding The Cause of Fatal Electrical Injuries In The Workplace;** Brett Brenner, Daniel Majano
- 11:45am ESW2022-13: **2023 Electrical Safety Workshop Promotion;**
- 12:00 noon **Lunch:** Grand Foyer
- 1:00pm ESW2022-14: **One Company's Best Practices to Consider When Creating and Streamlining a Company Electrical Safety Standard** Christopher Watson, Duane Boswell, Ed Boyer
- 1:45pm ESW2022-15: **An Effective Means of Tracking Temporary Safety Grounds;** Greg Drewiske
- 2:00pm ESW2022-16: **A Detailed Approach For Arc Flash Sustainability For Systems At Or Below 240V and Over 2000A;** Kyle Carr, Zarheer Jooma, John Whipple
- 2:45pm ESW2022-17: **Expo Introduction;** Kevin Warren

**3:00-6:00pm**

## Product and Services Expo and Social

Grand Ballroom 5 – 8

*The Latest in Technology and Services*

6:00 pm-8:00pm **ROXTEC Hospitality, [River Terrace 3](#)**

**Thursday, March 10**

- 7:00am **Workshop Breakfast:** Grand Foyer  
Authors' Breakfast, [Boardroom 1, 3<sup>rd</sup> Floor](#) (by invitation)
- 7:45am Early Bird Prize Draw
- 8:00am ESW2022-18: **AC Induction Conductive Suit – A New Way of Protecting Linemen In The Vicinity of Energized Parts;** Eduardo Ramirez-Bettoni, Dr. Balint Nemeth
- 8:45am ESW2022-19: **Arc Rated PPE Issues;** Paul Sullivan
- 9:00am ESW2022-20: **Electrical Safety Worldwide;** Lloyd Gordon, Jesse Liechty, Ernst Esch
- 9:45am **Refreshment Break**
- 10:15am ESW2022-21: **Safety Considerations While Working at a Private or Public Utility;** Tom Zampell, Frank Gonzalez
- 11:00am ESW2022-22: **Awards and Recognitions;** Kevin Lippert, Dan Doan
- 12:00noon **Lunch:** Grand Foyer
- 1:00pm ESW2022-23: **Human Performance In Workplace Electrical Safety;** Nehad El-Sherif, Mike Doherty
- 1:45pm ESW2022-24: **The Impact – “Just an Electrician”;** Jennifer Martin
- 2:30pm ESW2022-25: **Risk Assessment For The Home Office;** Eric Campbell

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2:45pm **Refreshment Break**

**3:00pm ESW2022-41: Advancing The Risk Assessment Practices For Structures Protection Against Lightning;** Giuseppe Parise, Marco Allegri, Luigi Parise

3:15pm ESW2022-26: **Transformer Failure Due to Oil Sampling;** Dennis Hill  
3:30pm ESW2022-27: **NFPA 70E-2024 Edition Proposed Changes;** Paul Dobrowsky

4:30pm ESW2022-28: **Focus Session Preview;** Eva Clark

**4:45 – 6:30pm Focus Session Presentations**

- ESW2022-37: **Electrical Shock Hazards Beyond 50/60 Hz and DC;** Lloyd Gordon, Jesse Liechty, Joseph T. Bradley III
- ESW2022-38: **Wearable-based Monitoring System for Lineman in Power Utilities to Mitigate Workplace Health and Safety Risks;** Fillipe Matos de Vasconcelos, Carlos Frederico Meschini Almeida, Stéfano Regis Gualtieri
- ESW2022-39: **Electrical Shock Sequela;** Terry Becker, John Knoll
- ESW2022-40: **Human Performance: How Enhancing Safety Is Managed;** Joshua Hodges

**5:30-7:30pm**

**Networking Social  
Grand Foyer**

**Friday, March 11**

7:00am **Workshop Breakfast:** Grand Foyer

7:00am Authors' Breakfast: [Boardroom 1, 3<sup>rd</sup> Floor](#) (by invitation)

8:00am Early Bird Prize Draw

8:15am ESW2022-29: **Analysis of Accidents Caused by Induced Current and Voltage on Transmission Lines and Substations Between 1985-2021;** Marcia Eblen, Keith Wallace, Eduardo Ramirez-Bettoni

9:00am ESW2022-30: **Assessing The Electrical Risks In Electric Vehicle Repair;** Vesa Linja-aho

9:45am **Refreshment Break**

10:00am ESW2022-31: **Lightning Fatalities Reduction Effort in Africa;** Dan Doan

10:15am ESW2022-32: **Accidents of Electrical Origin, A Detailed Analysis of Statistics: Brazil Compared To Other Countries;** Edson Martinho, Sergio Roberto Santos, Danilo Ferreira de Souza

11:00am ESW2022-33: **Addressing Misconceptions To Reduce Touch And Step Voltage Hazards At Power Systems;** David Lewis

11:45am ESW2022-34: **Workshop Review;** Thomas Domitrovich

Noon **2022 ESW adjourns**

**Post Workshop Tutorials**

Noon **Tutorial Lunch:** [Grand Ballroom 5](#). For Tutorials 5, 6, 7 & 8 registrants.

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- 1:00-5:00pm **Tutorial 5: Electrical Safety Management;** René Graves, Lanny Floyd, Mike Doherty. [Grand Ballroom 6](#)
- 1:00-5:00pm **Tutorial 6: Risk Assessment for Electrical Work for All Electrical Hazards;** Lloyd B. Gordon, Tommy R. Martinez. [Grand Ballroom 7](#)
- 1:00-5:00pm **Tutorial 7: Developing a Qualification Assessment;** Wes Mozley, Ayo Akinnikawe. [Grand Ballroom 8](#)
- 1:00-5:00pm **Tutorial 8: Objectionable current. What is it? What are the causes, the effects, and the solutions?;** Eric Stromberg, Jennifer Martin, [St Johns, 3<sup>rd</sup> Floor](#)

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