IEEE IAS Electrical Safety Committee  
Meeting Minutes  
March 4, 2019  
Hyatt Regency Riverfront, Jacksonville, FL, USA

Call to order by Scott Seaver: 1 PM; Passed out rosters

Display Summary of Membership Requirements from Bylaws  
Display List of 34 Voting Members  
Review for Quorum – 23 counted – Quorum achieved.

Reviewed Agenda – No changes

Approval of Minutes of last Electrical Safety Committee Meeting on March 19, 2018  
Motion to approve by Steve Wilson, Second by Thomas Domitrovich, Approved

Introductions:  
Electrical Safety Committee Officers  
Chair – Scott Seaver  
Vice Chair – Daniel Roberts  
Secretary – Dan Doan  
   Term ends April 8, 2019  
Past Chair – Steve Wilson  
(Vice Chair and Secretary positions will rotate to become next Chair and Vice Chair respectively for the 2019 to 2021 term.)

Motion is made by the Advisory and Nominations (A&N) Subcommittee to elect Rachel Bugaris as Electrical Safety Committee Secretary for the 2019 to 2021 term. Motion by A&N member Steve Wilson, second by Tim Gauthier. Approved.

Report from the Chair:  
- Internal Newsletter was published this year to facilitate communication of subcommittee activities. Plan to publish each year.  
- Increase International involvement by the committee.  
- Effort to streamline operations, including automation of paper submittal process for ESW.

Business from the Executive Subcommittee Meeting:  
- Addressed several items to IAS through our visitor, Steve Coppinger, who is the IAS Process Industries Department Chair.  
- Approved updates to the ESW operating manual

Introduction of new subcommittee chairs:  
- Awards and Recognition: Kevin Lippert  
- Government, Regulator, Inspectors and Laboratory: Lloyd Gordon  
- International: Marcelo Valdes  
- Publicity: Nehad El-Sherif
Summary reports of activities from Subcommittee Chairs:
(See separate file of slides from these reports.)
Academic Development - Afshin Majd
Awards and Recognition – Kevin Lippert
Codes and Standards Development - Arthur Smith
Construction – Mike Doherty
Corporate Relations - Frank Tyler
Early Career Development - Jay Prigmore
Facilities and Finance - Stephen Wilson
Government, Regulator, Inspectors and Laboratory – Lloyd Gordon
Historical and Records - Lanny Floyd
IAS Committee Relations - Hugh Hoagland
Industry Segment Development – Rachel Bugaris
International – Marcelo Valdes (see separate file – report not available at meeting)
Occupational Health and Safety – Rene’ Graves
Papers Review - Daniel Doan
Products and Services Development - Irozenell Pruitt
Publications - Thomas Domitrovich
Publicity Subcommittee – Nehad El-Sherif
Technical Program Subcommittee - Ken White

Reports on global activities of Electrical Safety:
Information on Costa Rica - G. Moya spoke on the plan to have an ESW in Costa Rica, scheduled for May 22, 2019 - May 24, 2019 in San Jose, Costa Rica. Website is: http://sites.ieee.org/esw-cr/home-page/

Information on PowerAfrica - H.L. Floyd reported on the Electrical Safety track planned for the PowerAfrica conference. Website is: https://ieee-powerafrica.org/about/

2019 ESW Brasil is scheduled to be held at the Salto Plaza Hotel - Av Getúlio Vargas, 444 - Salto - SP, Brasil, on July 16th to 18th, 2019. Website is: http://www.ieee.org.br/eswbrasil/

Introduction to the 2019 ESW – Jacksonville, FL - Chair: Rene’ Graves

Information presented on the 2020 ESW – Peppermill, Reno, NV, USA Chair: Scott Seaver
Call for Papers, Presentations and Tutorials is open.

Announcement of 2021 ESW Location: El Conquistador, Tucson, AZ, USA Chair: Kevin Lippert

New Business: No items

Show chart with schedule and locations for subcommittee meetings from 3PM to 6PM

Motion to Adjourn by Steve Wilson, Second by Kevin Lippert

Next meeting is scheduled for March 1, 2020 in Peppermill, Reno, NV, USA – watch for announcement.

(Note: See next page for roster of attendees)
<table>
<thead>
<tr>
<th>Roster of Attendees:</th>
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<tbody>
<tr>
<td>Arunkumar Aravamudhan, Andeavor</td>
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<td>Adams Baker, Eaton</td>
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<td>Terry Becker, TWBecker Electrical Safety Consulting</td>
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<td>Chip Boertlein, Toyota</td>
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<td>Michael Bryant, ABB Thomas+Betts Power Solutions</td>
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<td>Rachel Bugaris, Panduit</td>
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<td>Eldridge Byron, Schneider Electric</td>
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<td>Eric Campbell, Brown &amp; Caldwell</td>
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<td>Ken Cheng, Kinectrics Inc</td>
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<td>Eva Clark, Sandia National Lab</td>
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<td>George Cole, Palo Verde Nuclear Gen Station</td>
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<td>Steve Coppinger, Calportland</td>
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<td>Charles Crosby, DTE</td>
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<td>D Ray Crow, DRC Consulting</td>
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<td>Richard Dale, Littelfuse</td>
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<td>Sonny Dela, Nestle USA</td>
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<td>Daniel Doan, Retired - Dupont</td>
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<td>Paul Dobrowsky, Innovative Technology Services</td>
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<td>Mike Doherty, E-Hazard</td>
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<td>Thomas Dimitrovich, Eaton</td>
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<td>Andrew Drutel, SRNS, LLC</td>
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<td>Nehad El-Sherif, MNKYBR Technologies Inc</td>
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<td>Deborah Erbach, IBEW Local 701 Safety Comm</td>
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<td>Brian Erga, ESCI</td>
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<td>Lanny Floyd, Retired - Dupont</td>
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<td>Frederick Gantzler, II, E-Hazard</td>
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<td>Timothy Gauthier, AVO</td>
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<td>Mikhail Golovkov, Arc Flash - CRT</td>
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<td>Walter Gonzalez, ETAP</td>
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<td>Lloyd Gordon, LANL</td>
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<td>Rene' Graves, Texas Instruments</td>
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<td>Kirk Gray, Hydro-Quebec</td>
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<td>Al Havens, E-Hazard</td>
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<td>John P. Herron, Paytech USA Inc</td>
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<td>Dennis Hill, AECOM</td>
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<td>Hugh Hoagland, E-Hazard</td>
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<td>Matt Hussey, Eaton</td>
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<td>Jonathan Kacal, Shell</td>
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<td>Joshua Kerr, Google</td>
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<td>Michael Kovacic, ES Squared Inc</td>
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<td>Kristina Krivkova, Leaf Electrical Safety</td>
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<td>Vincent Leffler, Schweitzer Engineering Lab</td>
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<td>Robert LeRoy, Lee Inc.</td>
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<td>Kevin Lippert, Eaton</td>
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<td>Afshin Majd, AWS</td>
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<td>Jerry McGlynn, McWilliams Electric Co</td>
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<td>Terry McKinch, M.A. Mortenson</td>
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<td>Andrew Meikle, Ontario Power Generation</td>
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<td>German Moya, Costa Rica Section</td>
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<td>Martin Nagel, General Motors Co</td>
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<td>David Pace, Olin</td>
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<td>Joel Palma, Land O'Lakes</td>
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<td>Sergio Panetta, I-Gard Corp</td>
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<td>Thomas Papallo, Siemens</td>
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<td>Steve Park, Electrical Reliability Services</td>
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<td>Stephen Penley, Panduit Corp</td>
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<td>Mike Powers, Tri-City Electrical</td>
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<td>Jay Prigmore, Exponent Failure Analysis Associates</td>
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<td>Irozenell Pruitt, Corteva</td>
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<td>Joe Rachford, e-hazard</td>
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<td>Rahul Rajvanshi, Siemens</td>
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<td>Adam Reeves, Eaton</td>
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<td>Jeremy Renken, DuPont</td>
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<td>David Rewitzer, Hood Patterson &amp; Dewar</td>
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<td>Simon Robert, Hydro-Quebec</td>
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<td>Daniel Roberts, Schneider Electric</td>
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<td>William Rodeman, Land O'Lakes</td>
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<td>Pat Roder, IEEE SA</td>
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<td>Zia Salami, CDM Smith</td>
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<td>Joel Sandel, JRS Consulting Inc</td>
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<td>Dave Scheuerman, Littelfuse</td>
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<td>Mark Scott, Lawrence Berkley Nat'l Lab</td>
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<td>Scott Seaver, TE Connectivity</td>
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<td>Arthur Smith, W S Nelson</td>
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<td>Jeremy Smith, BP</td>
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<td>Paul Sullivan, DuPont</td>
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<td>Jesus Talavera, Schneider Electric</td>
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<td>Esperanza Torres Gutierrez, University of Los Andes, Colombia</td>
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<td>Frank Tyler, DuPont</td>
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<td>David Wallis, ESCI</td>
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<td>Doug Wettekin, Olin</td>
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<td>Jim White, Shermco-NETA</td>
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<td>Ken White, Retired - Olin</td>
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<td>Stephen Wilson, Retired - Dofasco</td>
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<tr>
<td>Jason Wolf, The ESCO Group</td>
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<tr>
<td>Yevgen Yevsyeyev, Leaf Electrical Safety</td>
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International Subcommittee of the IEEE Electrical Safety Committee

Chair; Marcelo E. Valdes

March, 2019

International activity of interest

1. **IEEE PowerAfrica 2019 Conference**, [https://ieee-powerafrica.org/about/](https://ieee-powerafrica.org/about/), 6th IEEE PowerAfrica 2019 Conference with the theme: “Power Economics & Energy Innovations in Africa” to be held in Nigeria August 20th-23rd, 2019. IEEE PowerAfrica 2019 is a premier conference providing a forum for research scientists, engineers, & practitioners to present & discuss latest research findings, ideas, & emerging technologies & applications in the area of power systems integrations, business models, technological advances, policies & regulatory frameworks for the African continent. IEEE PowerAfrica 2019 will include keynote addresses & invited presentations by distinguished scientists & engineers within the context of the SPES vis-à-vis Sustainable Development Goals (SDGs).

Among the various areas of focus is Electrical safety with the following safety related areas of interest identified [https://ieee-powerafrica.org/topics-interests/] :

- Overhead Power Line Safety Issues in Africa and developing countries
- Latest Updates on IEEE 1584 – IEEE Guide for Performing Arc Flash Hazard Calculations
- Safety by Design
- Globalization of Electrical Safety Standards
- Commercial and Industrial System Protection
- Lightning protection and ground methods with high resistivity African soils
- Application of surge and lightning protective devices

To submit papers, due February 28th, [https://ieee-powerafrica.org/submit-paper/](https://ieee-powerafrica.org/submit-paper/);

The Conference solicits original state-of-the-art contributions as well as review papers. Manuscripts should be at most Six (6) pages maximum in IEEE two-column format & must be submitted in Ms-word 2007 format via the Conference web-site. Please use Microsoft Word template to prepare your manuscript (template available on [http://bit.ly/2matQlB](http://bit.ly/2matQlB)). Accepted, peer-reviewed papers may be published in the Conference proceedings. Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting & Indexing (A&I) databases.

For additional information you may contact Mr. John Nelson at [jnelson@neieng.com](mailto:jnelson@neieng.com)

2. **Electrical Safety Workshop, San Jose Costa Rica**

[https://www.facebook.com/ESWCOSTARICA](https://www.facebook.com/ESWCOSTARICA)

[http://sites.ieee.org/esw-cr/?fbclid=IwAR1CG5SUl6niVjQcUSUGuqBYJZN5CLouBo5Z2d0Rfeja_mue6CoNJVVR3TQ](http://sites.ieee.org/esw-cr/?fbclid=IwAR1CG5SUl6niVjQcUSUGuqBYJZN5CLouBo5Z2d0Rfeja_mue6CoNJVVR3TQ)

**Committee:** German Moya, Juan Carlos Chavarría, Ismael López, Claudio Muñoz

For those companies interested in reaching the Central American market, the workshop has a 3-day Trade Show starting on Wednesday 22 at 2:30 PM until Friday 24 at 5:00 PM. For those who would like to explore the country, the organization offers tourism packages with activities before or after the event.

**Seminars to be offered at the workshop include:**

- 2 Day Electrical Safety Seminar by Ray Crow & Marcelo Valdes, presented in English & Spanish, with simultaneous translation to Spanish
- 2 Day Electrical Maintenance Seminar by Karl Cunningham & Michael Kovacic. Presented in English with simultaneous translation to Spanish

**Papers to be presented include as authors:**

Mr. Landis H. Floyd, Mr. Mike Dougherty, Mr. Dennis Hill & Mr. Marcelo Valdes. Papers may be presented in English, Spanish or Portuguese. Simultaneous translation to Spanish will be available.

At this point attendance is expected in the 200 range. Response to the call for papers was weak and the committee is personally reaching out to authors to obtain more papers.

### 3. March ESW Conference

I, Marcelo Valdes, was not able to attend the ESW in 2019. David Pace held a meeting of the international sub-committee. In attendance:

David Pace, German Moya, Esperanza Torres Gutierrez, Steve Adams and Kenneth Cheng.

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**Marcelo E. Valdes**  
ESW International Sub-committee Chair  
March 11, 2019
IEEE IAS Electrical Safety Committee Executive Subcommittee

Subcommittee Reports

March 3, 2019
Noon – 5PM
Members: 8 members (4 attended ESW 2018)
- 4 of our members were actively contributing to the IEEE 1584 standard development
- We are working with the University of Washington/George Washington Univ. on research projects/provide internship opportunities
- Subcommittee members presented total of 3 papers in 2018 ESW/PCIC events
- The chair will be lecturing on Elec. Safety & Power Quality as an IAS Distinguished Lecturer in 2019/20.
- We provided input to select the best student paper for ESW 2019
Academic Development Subcommittee

- 2 members are faculties at U of Texas, Arlington & George Washington Univ. (teaching Elec. Safety courses)
- Dr. Dehghanian chairs the ESW 2019 Student Program, where 6 students are awarded for their submittals (students were from USA, Poland, China, New Zealand, Canada, and Columbia)
- There will be a presentation at I&CPS 2019 (Calgary, AB) on “Electrical Safety in Academic Laboratories” by one of our members
Awards and Recognitions

- A&N approved the nominations for the Outstanding Service award, the Excellence in Prevention through Design Technical award, and the William C. Jordan award.
- A&N decided that we should only recognize people who have been given awards at the IEEE or IAS level. We will no longer recognize people who received awards from other committees such as PCIC. This is to help elevate our Committee awards to the same level as the other committee's awards.
- We will continue to ask Fellows and Senior members to stand. We will also ask first time attendees to stand and be recognized.
- Updated the Nominations forms for the ESC Awards.
- Consider documenting the operations of each subcommittee.
- Consider a 'Student Poster' award.
Awards and Recognitions

2019 ESW Awards

- Recognition of Attendees: All Safety-Related Standards Committee Members; Senior Members; Fellows
- ESW Papers Published
- Recognition of IAS Paper Award
- ESW Prize Papers
  - 2 Honorable Mentions
  - Second Place Paper
  - Best Focus Session Paper
  - Best Overall Paper
Awards and Recognitions

2019 ESW Awards

- Outgoing Awards & Recognition Subcommittee Chair
- Outgoing (and prior) ESC Chairs
- Outgoing ESW Chair
- Other Special Recognition
  - SA Managing Director’s Special Recognition Award
  - Charles Proteus Steinmetz Award
  - Fellow Elevation
- Excellence in Prevention Through Design Award
- Outstanding Service Award
- William C. Jordan Award
Codes and Standards Sub-committee

Members: Chair, Secretary, 20 Meeting Attendees

Progress To-Date:
5-Working Group Meetings at 2019 ESW
   P463, P1458, P1814 and P1584.1
ESafeC now sponsors 5 members of SCC18 “Standards Coordinating Committee”:
   Frank Tyre (CMP-1 Alternate), Paul Sullivan (CMP-9 Principal), Peter Walsh (CMP-10 Alternate), JJ Dai, and Don Zipse. This is approximately 14% of the current SCC18 membership.

In Progress - New Standards Development:
   Develop PARs for:
   Working Safely with Hazardous Capacitors – Mark Scott/A. Smith
   Complete Electrical Risk Assessment Method - Lloyd B. Gordon/A. Smith
Construction Subcommittee

Members: Chair, Vice Chair, 14 members (changes due to jobs, ability to attend)

In 2018:
Held annual face to face meeting at ESW
Held elections for exec. All members continued to stand.
Report on NAC / IEEE meeting in Washington DC
Discussed tutorial potentials.
Discussed papers for 2019
In Progress:
Current papers for 2019.
Meeting on Monday for tutorials / papers in Reno 2020 / elections
IEEE/IAS Electrical Safety Committee – March 2019
Executive Subcommittee - Corporate Relations

Chair – Frank Tyler
Vice-Chair – Scott Seaver
Role of Corporate Relations
Subcommittee/Activities

Provide Oversight for...

- Annual solicitation of financial support for the ESW from corporations and/or individuals.
- The Vendor Product Exposition during the ESW.
- The Vendor Hospitality suites management process.
- Oversight for each item includes ensuring the activity is performed per the ESW Operating Manual.
- Review and recommend updates to the Corporate Support, Product Exposition, and Hospitality sections of the ESW Operating Manual as needed.
- Address any issues concerning Corporate Relations.
ESW Corporate Support

- Chair – Tim Gauthier
- Vice-Chair – Frank Tyler
- Works closely with ESW Finance Chair

- No price increases for corporate support for this years’ ESW.
- Slow start for this year, but picked up leading up to the ESW.
- A few previous supporters were not able to include corporate support in their budget for this year.
- Solicited support, from new supporters to makeup for some of the lost support.
- Approximately $28,100 in support for this the 2019 ESW.
ESW Corporate Support

- 10 companies supporting 12 opportunities.
- Continue to add support opportunities as they are identified, such as the mobile charging station added this year. Any other ideas? We’re all EARS!
- Listing supporters for recognition for Mobile App as well as the ESW website. This has been well received by the supporters.
- Personally thanking the supporters during the workshop.
- Sends Thank You certificates to all supporters. This was started after the 2017 workshop. Certificates were very well received by the supporters and will continue this after the 2019 workshop is complete.
ESW Product Expo

- Chair – Kevin Warren
- Vice-Chair – Scott Seaver

- Typically, between 50 and 70 exhibitors. (approx. 61 spaces purchased (48 Companies) for this year out of 65 spaces.

- Using the “passport” system to ensure contest entrants visit at least 15 booths.

- Excellent networking/social opportunity.

- Good for new business for participating companies
ESW Hospitality Suites

- Chair – Steffie Owen
- Works closely with Meeting Planner Steve Glass

- Four Hospitality Suites for 2019 workshop. Evenings - Monday (1), Tuesday (1) and Wednesday (2).

Excellent networking and social opportunity
Early Career Development Sub-committee

Members: Chair, Vice-Chair, 7 additional members

In 2018:
Vice-chair was named (Paymen Dehghanian)
3 additional member joined the sub-committee
Targeting a first time attendee/early career professional tutorial for ESW 2020
Targeting an early career development social event
   Possible breakfast, happy hour, or other event
Need to recruit additional members
Facility and Finance Subcommittee

Members: Allison Halluik, Steven Glass, Steve Wilson

In 2018:
2017 ESW Reno Audit completed
2018 ESW Fort Worth internal audit review complete sent to external auditors
2019 ESW contracts and purchase orders set up
2020 ESW Bank account open
2021 ESW Hotel contract signed
3 year contract with American Audio Visual 2019 - 2021
Facility and Finance Subcommittee

In Progress:
2021 – 2025 Contract with Glass & Associates LLC
ESW Locations 2022 and on
2019 ESW Costa Rica May 22 - 24, 2019
   250 attendees, $256K revenue, $105K expenses, $150 K surplus
2019 Power Africa August 20-23, 2019
Historical and Records Subcommittee

- **Chair:** Lanny Floyd
- **Scope:**
  - Develop and maintain historical materials and information of the life and evolution of the committee and the ESW.
  - Information is to be kept on the committee website.
  - Encourage individual and companies who have supported the committee or the ESW to submit memories.
Historical and Records Subcommittee

- Recent Activity
  - Updating Body of Knowledge Index, listing all presentations, papers, tutorials to date
  - Compiling all post conference highlight articles published in IEEE Industry Applications Magazine 1992-2018 ESW, ESW Brazil, ESW India
    - Award photos, best paper recipients, brief overview articles
  - Updating documents
    - Award Nomination Forms
    - Meeting Minutes
    - Committee Award recipients
Issues:
• One person subcommittee
• Photo archives – how to manage
IAS Committee Relations Subcommittee

Chair: Hugh Hoagland

Key leaders in the following committees were sent invitations to the 2019 ESW:
- PCIC
- PPIC
- I&CPS
- PES
- Industrial Automation Controls
- Metal Industry Technical Committee
- Mining Industry Committee
- TSC
Industry Segment Development Subcommittee

Members: 10

In 2018:
Partnered with IAS to create webinars on safety topics

In Progress:
Webinar selection guidelines
Better publicity for webinars
Recognition for presenters
Promote previously recorded webinars
Industry Segment Development Subcommittee

Electrical Safety Webinars
Visit https://ias.ieee.org and select Resource Center

Free to IAS members
IEEE members $11
Non-members $15
# Industry Segment Development Subcommittee

## Electrical Safety Webinars

Visit [https://ias.ieee.org](https://ias.ieee.org) and select **Resource Center**

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tr>
<td>COMING SOON!</td>
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<tr>
<td>April 24, 2019</td>
<td>Electrical Safety Prevention through Design – Part 2: The Future is Already Here</td>
<td>Marcelo Valdes</td>
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<tr>
<td>ARCHIVED</td>
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<tr>
<td>February 20, 2019</td>
<td>Electrical Safety Prevention through Design – Part 1: Pushing the Envelope in Electrical Injury Prevention</td>
<td>Lanny Floyd</td>
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<td>January 31, 2018</td>
<td>Electrical Safety Integration into New Production Facility Planning</td>
<td>Mark Scarborough</td>
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<td>January 6, 2016</td>
<td>Understanding NEC and IEC in the matter of bonding and grounding of low-voltage power systems</td>
<td>Dr. Massimo Mitolo</td>
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<td>August 2, 2015</td>
<td>Advanced Concepts in Occupational Electrical Safety</td>
<td>Lanny Floyd</td>
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International Subcommittee

- Chair: Marcelo Valdes
- (See separate file)
Paper Review Sub-committee

Members: Chair, 3 Associate Editors, 77 Reviewers

In 2018:
32 Papers Reviewed in ScholarOne
  (31 from ESW, 1 from IAS co-sponsored conference)
5 Papers sent to IEEE Transactions on Industry Appl.
11 Papers sent to Industry Applications Magazine
2 Papers being revised by authors

In Progress:
27 papers for 2019 ESW under review in ScholarOne
Products and Services Sub-committee

Chair: Irozenell Pruitt

2018 Accomplishments:

• Daily Safety Tips for the May Electrical Safety Month:
  Daily safety tips were issued Monday – Friday during the month of May.

Plans:

• We plan to issue Electrical Safety Tips once a month throughout the year.
• Need more members for this committee.
Publications Sub-committee

Publications

• ESW Book:
  • 2019 review process found great edits that will carry over.
  • USB sticks put together with papers
  • Closely working with Dennis Hill helped considerably

• Lessons learned
  • Better engagement with papers review subcommittee
  • Establish fixed dates / timeline for conference pre and post work

• Domitrovich  thomasdomitrovich@eaton.com
Technical Sub-committee

Members: 20

In 2018:

• Guideline for removing paper or tutorial - can only remove a paper if it does not meet the original proposal
• ESW Manual updated
• Electronic Submittal of papers and Presentations went well
• Will continue to distribute Presentations via the thumb drive
• Still an issue with timely submittals
• Which Papers go into conference record and when