

# IEEE IAS Electrical Safety Committee Meeting **MINUTES**

March 7, 2022 1-3pm Eastern

Hyatt Regency Jacksonville Riverfront Hotel. Jacksonville, FL, USA

The River Terrace 2 Room

1. The meeting was called to order at 1:02pm by Dan Doan.
2. Attendance sheets were circulated and signed by those present. A total of 70 people signed the attendance sheet, including 21 of 36 voting members. 8 voting members were present virtually.
  - a. The current list of voting members was reviewed.
  - b. A quorum was established.
3. The agenda was reviewed. A motion to approve the agenda was made by Daniel Roberts and seconded by Daleep Mohla. The agenda was approved unanimously.
4. The minutes from the 2021 Meeting were previously distributed electronically to members.
  - a. The minutes were reviewed. Steve Wilson mentioned the discrepancy in the future ESW Chairs noted in Item 13. The future list was correct at the time of the meeting, and note was made to ensure that future documents reflected the revised list of future ESW Chairs.
  - b. A motion to approve the minutes was made by Steve Wilson and seconded by Lloyd Gordon. The minutes were approved unanimously.
5. The Report from Chair was given by Dan Doan.
  - a. Proposed Changes to Bylaws (renaming of Codes and Standards S/C) and Operating Manual (lapel pin policy changes) were reviewed.
  - b. New ESafeC Awards in place – YPA, Technical Achieve Awards. Now a total of 5 Committee Awards.
  - c. A motion was made by Lloyd Gordon to accept the changes and was seconded by Lanny Floyd. The motion was approved unanimously.
6. ESafeC Subcommittee chairs gave a brief report on the activities of each subcommittee. Details are in the attached slides.
  - a. Electrical Safety Workshop – Scott Seaver
    - Scott noted that the Operating Manual says that this S/C is permitted 2 Vice Chairs
    - Scott noted that the ESW S/C did not want to have 2 Virtual ESWs in a row
  - b. International Development – Dan Doan for Marcelo Valdes
    - China ESW development ran into covid and stopped
    - This S/C meeting is cancelled for today.
  - c. Academic Development – Jay Prigmore for Afshin Majd
    - A few details were furnished to what professors accomplished this year
  - d. Construction – Eric Campbell
  - e. Early Career Development S/C – Jay Prigmore
    - There is an event tomorrow for early career / 1<sup>st</sup> time attendees
  - f. Government, Regulators, Inspectors & Labs – Lloyd Gordon
  - g. IAS Committee Relations – Matt Hussey

- Also covered 3D-Avatar based conference.
  - The Mining S/C of IAS has joined at ESW
- h. Industry Segment Development – Jeff Glenney
- i. Occupational Health & Safety – René Graves
- Working with getting BCSP attendees at ESW
  - Grow knowledge of EH&S professionals
- j. Standards - Lloyd Gordon for Arthur Smith
- k. Paper Review – Zarheer Jooma
- Zarheer has struggles with Associate Editors work. Lloyd G and Paul S doing work of four people.
- l. Technical Program – Al Havens for Mark Scott
- Paper mentoring efforts are underway and mentioned.
  - There is a need for help managing a Body of Knowledge (BOK) currently in Excel via pivot tables and routine updates
- m. Awards & Recognition – Kevin Lippert
- A plea for all to submit nominations was made when the call for them is issued. This would include awards and IEEE Senior and IEEE Fellow nominations.
- n. Facilities & Finance – Steve Wilson
- An audit of ESW finances was passed.
  - Negotiations are taking place with the Hyatt Regency in Jacksonville for ESW 2025.
- o. Historical & Records S/C – Lanny Floyd
- There will be a talk tomorrow concerning the ESW 30 year anniversary.
- p. Publicity & Media - Lloyd Gordon for Nehad El-Sherif
- The work with our media partners was emphasized.
- q. Advisory & Nominations- Dan Doan
7. Business from Executive Subcommittee Meeting (held yesterday) was covered by Dan Doan
- a. A review of the ESW Operating Manual was discussed.
- b. Emphasis was placed by Dan Doan that the ESafeC Subcommittee Chairs have in place a succession plan. This likely points to having a Vice Chair on hand to back up the Chair, and to eventually replace the Chair.
- c. An Ad-Hoc subcommittee of the ESafeC on the Electric Shock Culture is led by Mark Scott and will begin work in earnest later this year. In the meantime,
- i. the ESW Keynote speaker tomorrow will be from an individual who has worked in the field of electric shock for over 30 years.
  - ii. Terry Becker has a presentation on electric shock.
  - iii. Ray Crow will contact a recent presenter on electric shock also for a possible future presentation.
8. 2022 ESW Introduction was given by Thomas Domitrovich. It was noted by Daniel Roberts and others that Thomas has filled in as the ESW 2022 Chair at a very late moment in time.

9. 2023 ESW Announcement – Reno, NV, USA – Scott Seaver spoke on behalf of this upcoming workshop for Mark Scott
  - a. Call for Papers, Presentations, and Tutorials
10. New Business. None was covered.
11. A motion to adjourn the meeting was made by Daleep Mohla and seconded by Thomas Domitrovich.

IEEE IAS Electrical Safety Committee  
Annual Meeting – Jacksonville, FL  
March 7, 2022



# Establishment of Quorum

- Requires over 50% of the voting members attending or connected
- **Note**: if you would like to become a 'voting member', please contact the ESafeC Chair



# Electrical Safety Committee - Voting Members

Rachel Bugaris

Eric Campbell

Eva Clark

D Ray Crow

Daniel Doan

Paul Dobrowsky

Mike Doherty

Thomas Domitrovich

Nehad El-Sherif

Lanny Floyd

Jeff Glenney

Lloyd Gordon

Rene' Graves

Dennis Hill

Hugh Hoagland

Matt Hussey

Zarheer Jooma

Kevin Lippert

Afshin Majd

Daleep Mohla

Dennis Neitzel

David Pace

Jay Prigmore

Irozenell Pruitt

Daniel Roberts

Tim Rohrer

Vince Saporita

Mark Scott

Scott Seaver

Arthur Smith

Paul Sullivan

Frank Tyler

Marcelo Valdes

Jim White

Ken White

Stephen Wilson



# 2022 Agenda

**HYBRID MEETING: Hyatt Regency Jacksonville, FL (River Terrace 2) and Teams**  
**1pm-3pm EST**

1. Call to order
2. Roster
  - a. Display membership requirements and member list
  - b. Determine if a quorum exists
3. Review Agenda
4. Approval of Minutes from 2021 Meeting
  - a. Revisions and/or Motion to approve
5. Report from Chair
  - a. Changes to Bylaws and Operating Manual
  - b. Motion and vote to accept changes
  - c. New ESafeC Awards in place



# 2022 Agenda

**HYBRID MEETING: Hyatt Regency Jacksonville, FL and Teams**

6. Introduction and Summary Reports from Subcommittee Chairs  
(Provide forums for people to meet and exchange ideas)
  - a. ESW – Scott Seaver
  - b. International Development – Marcelo Valdes  
(Link professionals, practitioners, and centers of excellence)
  - c. Academic Development – Afshin Majd
  - d. Construction – Eric Campbell
  - e. Early Career Development – Jay Prigmore
  - f. Government, Regulators, Inspect & Labs – Lloyd Gordon
  - g. IAS Committee Relations – Matt Hussey
  - h. Industry Segment Development – Jeff Glenney
  - i. Occupational Health & Safety – René Graves  
(Accelerate advancements in development and application of technology, work practices, standards, and regulations)
  - j. Standards – Arthur Smith
  - k. Paper Review – Zarheer Jooma
  - l. Technical Program – Mark Scott  
(Administrative)
  - m. Awards & Recognition S/C – Kevin Lippert
  - n. Facilities & Finance S/C – Steve Wilson
  - o. Historical & Records S/C – Lanny Floyd
  - p. Publicity & Media S/C – Nehad El-Sherif





# 2022 Agenda

**HYBRID MEETING: Hyatt Regency Jacksonville, FL and Teams**

7. Business from Executive Subcommittee Meeting
8. 2022 ESW Introduction – Thomas Domitrovich
9. 2023 ESW Announcement – Reno, NV, USA –  
Mark Scott
  - a. Call for Papers, Presentations, and Tutorial
  - b. Future ESW Dates
10. New Business
11. Motion to Adjourn



# 2021 Minutes

- Attached to meeting invitation



# Report from Chair

- Changes to Bylaws and Operating Manual
  - Rename Standards S/C, add Operating Manual Sections 5.1 and 5.2
- Motion and vote to accept changes
- New ESafeC Awards in place



# ESW – Organizing Subcommittee

Scott Seaver – Chair

2021 Activities

- Examine options for ESW
  - In Person
  - Virtual
  - Hybrid
  - RIP
- Work with local committee on all aspects of product delivery
- Maintain relationship with Tucson Hotel
- Lessons learned



# ESW – Organizing Subcommittee

## 2022 Initiatives

- Delivery-Face to Face with recorded content available.
- Pricing
- Protocol
- Examine options to use in negotiations with the Hyatt
  - Current projections: attendance 157 projected penalties if trend continues \$50K best case, \$100K worst case.
  - Work with IEEE & IAS



# International Subcommittee

## **Marcelo Valdes – Chair**

2021 Activities... Some emails exchanged and leadership identified for a future conference in China.

However...Covid... did not seem appropriate to schedule a conference

China's Covid isolation policy may make it difficult to plan a conference in China even after ROW comes to grip with "endemic" Covid...



# International Subcommittee

2022 Initiatives; Find a location with willing local leadership and ability to garner local community participation.

- South/Central America
- Europe
- Africa
- China
- India
- Rest of Asia



# Academic Subcommittee

Afshin Majd – **Chair**

2021 Activities and Initiatives

- **Chair:** Student mentorship. This student was hired through ESW initiatives (from GWU). Joined as an intern and became a full-time employee.
- **Prof. Dehghanian:** ESW 2022 Student Program Chair
- **Prof. Dehghanian:** Hosting several IEEE IAS Webinars
- **Prof. Lee:** Arc Flash lab tests. Li-Ion Battery SC testing. Submitted for ESW
- **Dr. Prigmore:** Keynote speaker at Lamar Univ.
- Our team had Several group exchanges on activity topics





# Academic Development Subcommittee

## 2022 Initiatives

- Focus on renewables (specially microgrids with Fuel Cells)
- Both internship and full time hiring on Fuel Cell topic – I am actively looking for an intern interested in microgrid work.
- Having webinars on the microgrid and data centers



# Construction Subcommittee

Eric Campbell – Chair

## 2021 Activities

- Quarterly meetings with committee officers
  - Org. Chart development
  - Refinement of communication – Outlook Group emails
  - Mentoring for authors
- Tutorial Development: Construction Site Safety – Tools for Coordinating with all Trades.
- Paper Development:
  - Hazard Risk Assessment for the Home Office
  - Human Performance in Workplace Electrical Safety



# Construction Subcommittee

## 2022 Initiatives

- Regular and consistent communication with committee officers with clearly defined goals
- Maintain mailing list for ease of communication with members
- Promote development of 'Abstracts' and reinforce peer/mentor circles for authors
- For each ESW, Industry outreach specific to region.



# Construction Subcommittee

## 2022 Initiatives

- Regular and consistent communication with committee officers with clearly defined goals
  - Q1 – ESW recap, call for papers/tutorials, evaluate potential group activities at following conference (golf, run, tours)
  - Q2 – Peer/mentor communication, look-ahead to next ESW, outreach planning
  - Q3 - Peer/mentor communication, look-ahead to next ESW, outreach status
  - Q4 – Upcoming ESW promotion



# Early Career Development Subcommittee

Jay Prigmore – Chair

## 2021 Activities

- Mostly on hold due to COVID
- Gauge participation from early career attendees



# Early Career Development Subcommittee

## 2022 Initiatives

- Continue early career mixer
- Develop a “speed” mentoring event
- Grow the subcommittee
- Implement a training course or tour of a local facility
- Confirm a committee chair successor



# Government, Regulator, Inspectors, and Laboratory Subcommittee

Chair – Lloyd B. Gordon, Vice-chair – Ernst Esch

- Government labs now engaged: DOE, NASA, Army Research Lab, Navy
- Activities over the past year:
  - recruited NASA
  - Working on a unified electrical safety program in DOE's NNSA (LANL, LLNL, SNL, NNSS)
- Topics for subcommittee meeting this afternoon (March 7, 2022)
  - Charter and goals of this subcommittee, what is the primary focus?
  - Discuss interchange of Best Practices and methods among IEEE and Government/Labs
  - Discuss level and method to engage Regulators and Inspectors



# IAS Committee Relations Subcommittee

Matt Hussey– Chair

## 2021 Activities

- ESW – Virtual, Whova
- CIC – Virtual (AR-type conference)
- PPIC – Virtual, Whova
- PCIC – In-person & Virtual, September 13-16, 2021, San Antonio





# IAS Committee Relations Subcommittee

## 2022 Initiatives

- Returning to in-conference activities
  - CIC – May 1-5, 2022, Las Vegas
  - I&CPS – May 1-5, 2022, Las Vegas
  - PPIC - June 12-16, 2022, Niagara Falls
  - PCIC – September 26-29, 2022, Denver
    - Hosting Mining Industry Committee
  - Others?



# Industry Segment Development Subcommittee

Jeff Glenney – Chair

Matt Hussey – Vice Chair

Diane Jones – Secretary

## 2021 Activities

- 2 virtual meetings
  - using Collabrotec for minutes and materials
- Share ESW information and previously presented ESW content through the IAS Webinar Series <https://ias.ieee.org/education/webinars.html>
- completed 2 out of 4 planned webinars
- started working on safety briefs that can be shared for promotion of ESW



# Industry Segment Development Subcommittee

## 2022 Initiatives

Continue with 2-3 webinars of ESW content for promotion –hosted on IAS site

Increase members and create additional safety briefs that can be shared

Encourage all members to share information on IEEE ESW whenever you are presenting to a group no matter what the industry



# OSH Safety Sub-Committee

Co-lead by: Rene' Graves &  
Jeremy Presnal



# OSH S/C Executive Summary

- Currently a large communication is sent to 38 participants in 2021 (down 4)
  - Reason for reduction, no long in the position
- Number of meetings in 2021 - 7
- Average attendance 6-7 people
- Topics of discussion
  - Questions to be added for the Board of Certified Safety Professionals
  - Brainstorming on how to increase safety professionals and supervisors knowledge in the field of electrical safety
    - Based on brainstorming activity additional development of the topics are being developed
    - Once developed, a plan for communication and presentation will be created and implemented



# Brainstorming

## How/What do we share and grow the Safety Professionals and Electrical Competency ?

- **Create outline for the training**
  - **Title (catchy)**
  - **What areas should we focus on?**
    - **Understand call for action (stats)**
    - **Defining AC/DC/Capacitance**
    - **Defining hazard types for electricity**
    - **Better understand what happens when someone is shocked/involved in AF/AB**
      - **Severity**
      - **What happens acute or chronic affects on the body**
  - **Establishing a safety culture for workers**
  - **Grow knowledge and Introduction of different codes**
    - **OSHA 1910 Subpart S, 1926 Subpart K,**
    - **1910.269 subpart R**
    - **1926 Subpart V**
    - **NFPA 70E 110.5 or CSA Z462**
    - **NESC**
  - **PtD and how it applies to Safety Professionals / ESH Management Systems**
    - **Equipment that can support PtD**
    - **Hierarchy of Control (Management Systems)**
    - **Importance of AF analysis**
      - **What if you do not have one?**



# Brainstorming (cont.)

## How/What do we share and grow the Safety Professionals and Electrical Competency ?

- **Field activities to observe.**
  - Establishing an electrically safe work condition
  - What are you seeing
  - Examples
  - Basic Checklist for field assessments (consider including pictures)
    - How to observe the field activities
    - How to deliver the question and not been see as a problem
  - Networking resources
- **Training based on task and equipment**
  - Awareness of conditions
  - Awareness of non-qualified
- **Managing electrical events**
  - Ensuring the scene is safe before investigation begins (Establishing an electrically safe work condition)
  - Investigation
  - Reporting
  - Regulatory /insurance interaction
- **Host Employer and Supplier Communication**
  - What should this include?
    - Hazard identification
    - Expectations
    - Qualifications
    - Limitations
    - Training Requirements for Supplier and Host



# Plans for 2022

- Continue to hold meetings
- Complete brainstorming topic development
- Develop a roll-out plan
- Implement plan





# Codes and Standards Development Subcommittee

Chair - Arthur Smith, Vice-Chair – Lloyd Gordon, Secretary – Open

## **New Standards Development:**

### **Proposed Project Authorization Request Pre-PAR Exploratory Meetings:**

#### **Electrical Safety Risk Assessment**

*The purpose of this meeting is to explore interest in developing a PAR Study Group on this topic - Lloyd B. Gordon*

#### **Electrical System Design Techniques to Improve Electrical Safety**

*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. - Dennis Hill*

#### **1584.1 Face to Face Meeting canceled due to COVID Concerns**

*New Policies and Procedures for Standards Development for the IEEE Industry Applications Society Electrical Safety Committee (ESafeC) Standards Subcommittee were accepted by the SASB, September 23, 2021, allowing ESafeC to develop standards and will remain valid until December 31, 2026.*



# Paper Review Sub-committee

Members: Chair, 4 Associate Editors, 71 Reviewers

In 2021:

34 Authors were invited to submit papers to ScholarOne

19 Papers were Reviewed in ScholarOne

2 Papers under review

5 Papers sent to Industry Applications Magazine

2 Paper being revised by authors

In Progress:

?? Papers for 2022 ESW will be submitted to ScholarOne



# ESafeC Technical Subcommittee

Mark Scott – Chair

## 2021 Activities

- Revised the ESW Presentation Powerpoint template.
  - Updated PPT Deck reviewed and submitted to 2022 ESW organizing committee.
- Worked on Member/Topic Survey
  - Scope is limited to identifying future technical topic interests
  - Try to capture power engineering people, not just T&D or PCIC
- Discussed Paper mentorship program as new initiative:
  - Will set up short breakout sessions on Tuesday and Thursday at the ESW right after presentations.
  - Will put info on the ESW slide loop.
- Body of Knowledge document:
  - Committee agree to take responsibility for updating the BOK.
  - Lacking resource to curate long-term.
  - Will look at recruiting a volunteer during ESW 2022.



# ESafeC Technical Subcommittee

## 2022 Initiatives

- Member/Topic Survey
  - Review 2022 ESW Survey Results
  - Identify leading Topics for Author recruitment
  
- Paper Mentorship Program
  - Review 2022 ESW Success
  - Evaluate 2022 ESW interests and Mentoring Opportunities
  - Pair the 2022 ESW mentors with mentees for 2023 ESW Submissions
  
- Body of Knowledge document
  - Needs pivot table skillset
  - Discuss recruiting opportunity at ESW
  - Need to post high level report on ESW website



# Awards & Recognitions Subcommittee

Kevin Lippert – Chair

## 2021 Activities

- Publicity Subcommittee
- Technical Program Subcommittee
- Outgoing ESW Chair

### Outgoing Subcommittee Chairs

- Tim Rohrer
- Ken White
- Kevin Lippert

### Prize Papers and Presentations Awards from 2020 ESW

- Honorable Mention Papers (2)
- 2<sup>nd</sup> Best Paper
- Best Paper
- Best Student Paper (2021)

### Committee Awards

- Excellence in Prevention Through Design Award
- Outstanding Service Award
- William C. Jordan Award
- Dennis Hill
- Scott Seaver
- None



# Awards & Recognitions Subcommittee

## 2022 Initiatives

- Corporate Relations Subcommittee
- IAS Committee Relations Subcommittee
- Papers Review Subcommittee
- Products & Services Development Subcommittee
- Outgoing ESW Chair

### Outgoing Subcommittee Chairs

- Frank Tyler
- Hugh Hoagland
- Ken White
- Irozenell Pruitt
- Thomas Domitrovich

### Prize Papers and Presentations Awards from 2021 ESW

- Honorable Mention Papers (2)
- 2<sup>nd</sup> Best Paper
- Best Paper
- Best Student Paper (2022)

- Excellence in Prevention Through Design Award
- Outstanding Service Award
- William C. Jordan Award
- Technical Achievement Award (NEW)
- Young Professional Award (NEW)

### Committee Awards

- Rachel Bugaris
- Daniel Roberts
- None
- Hugh Hoagland
- Payman Dehghanian



# Facility & Finance Subcommittee

Stephen Wilson – Chair

## 2021 Activities

- Received and reviewed audit report for 2020 ESW
- Participated on IEEE Conference Finance Committee
  - Reviewing and commenting on new finance and contract applications
- Received training in new IEEE Finance and Contract systems
- Participated on IEEE MCE Convene
- Participated on ESW Subcommittee
- Assisted 2021 & 2022 ESW Chair – finance, contracts



# Facility & Finance Subcommittee

## 2022 Initiatives

- Review 2021 ESW Audit Report
- Submit 2022 ESW Financial Statement
- Participate in IEEE Conference Finance Committee
- Participate on ESW Subcommittee
- Assist 2022 ESW Chair – finance, contracts
- Assist 2023 ESW Chair – finance, contracts





# Historical & Records Subcommittee

Lanny Floyd – Chair

David Pace – Vice Chair

## **2021 Activities and Initiatives**

1. Updated Awards History
2. Projects for 30-year anniversary
  - a. Developed ESW history presentation for ESW 2022
  - b. Developed IAS Magazine ESW History article for May/June issue

## **2022 Plans**

Complete compilation of ESW News and Electrical Safety column articles from IAS Magazine



# Publicity & Media Subcommittee

Nehad El-Sherif – Chair

## 2021 Activities

- Media partnerships with and expect ESW attendance from:
  - IEEE-SA
  - NETA (2-year agreement, 1st multi-year agreement and hope to get to 5-year agreements)
  - IAEI
  - Electrical Safety in the Workplace magazine (RDG Media)
  - NFPA
  - Electrical Contractor magazine
- Kristy Black is developing 2022 ad content for media partners
- Promoting ESafeC and ESW on social media



# Publicity & Media Subcommittee

## 2022 Initiatives

- We are working on Media Partner agreements with, and attendance from:
  - EC&M magazine
  - ESFi
- We are expecting promotions of ESW from:
  - Power Sources Manufacturers Association
  - Electrical Business magazine
  - eHazard
  - EC&M magazine
  - NETA
- Working with Kristy Black to develop scopes of work and cost estimates for the work she does/will do for the ESW Committee and the ESafeC. Will work with Steve to get a PO



# Advisory & Nominations

- Updates to bylaws and operating manual
- New Subcommittee Chair – Matt Hussey, IAS Committee Relations
- Announce future ESW dates, locations



# Future ESW Dates

- March 13 – 17, 2023
  - Peppermill Reno, NV
  - Chair: Mark Scott
- March 4 - 8, 2024
  - El Conquistador Tucson, AZ
  - Chair: Jay Prigmore
- March XX -XX, 2025



# Business from Executive Subcommittee

- ESW Operating Manual Update – Kevin Lippert
- Subcommittee Succession Planning
- Ad Hoc Committee on “Shock Culture” – Mark Scott



Thomas Domitrovich



March 7 – 11, 2022  
Hyatt Jacksonville, FL



Mark Scott



2023 ESW

March 13-17, 2023

Peppermill Resort Reno, NV

Call for papers





# New Business

?????



# Motion to Adjourn

Next meeting March 13, 2023 in Reno, NV, USA

