

2009 PCIC Annual Conference Safety Subcommittee Meeting Agenda

Tuesday, September 15, 2009
Hilton California-B Room
3:30pm – 5:00pm

Agenda

- Welcome
- Safety Subcommittee Officers
- PCIC Safety Excellence Award
- Membership Update
- 2008 Subcommittee Meeting Minutes
- IEEE Email Alias
- Outstanding Technical Contribution Award
- IEEE IAS Electrical Safety Workshop
- IAS/PCIC Conferences and Workshops
- Electrical Safety Websites

Agenda Continued

- ESFI
- 2011 National Electrical Code
- Case Study
- Working Group Reports
- Standards and Regulation Activity
- 2009 Safety SC Paper Presentations
- 2010 Safety SC Paper Proposals
- Feature Presentation: First Aid after an Arc Flash Injury - A few things every electrical worker should know
- Adjourn
- Reference Websites

Safety Subcommittee Officers

- | | | |
|--------------|---------------|---------------------------------|
| ■ Chair | Kevin Lippert | Eaton |
| ■ Vice-Chair | Paul Sullivan | DuPont |
| ■ Secretary | Ed Larsen | Square D/
Schneider Electric |

- A new Secretary will be needed after the 2010 PCIC Conference as the current officers will rotate their position. Contact a current officer if you are interested in the Secretary position.

PCIC Safety Excellence Award

- The PCIC Safety Excellence Award is used to recognize individuals for

"outstanding dedication and contributions made to advance and accelerate the dispersion of information and knowledge impacting electrical safety through activities within and outside the Petroleum and Chemical Industry Committee".

PCIC Safety Excellence Award

- The past award recipients are

- 1999 H Landis Floyd II
- 2000 L. Bruce McClung
- 2001 Ray A. Jones
- 2002 Satish Chaparala
- 2003 Mary Capelli-Schellpfeffer
- 2004 Danny Liggett
- 2005 Bill Jordan
- 2006 David Pace
- 2008 Tom Neil

PCIC Safety Excellence Award

The recipient for 2009:

- Received 3 "1st Place Paper" awards and one "Honorable Mention" award from PCIC/USA,
- A "Top 3 Electrical Safety Presentation" award from the Electrical Safety Workshop;
- Chaired/co-chaired/coordinated 3 PCIC Electrical Safety Workshops on two different continents,
- Presented numerous papers and tutorials at international conferences
- Authored & published other numerous safety-related articles
- Developed & presented electrical safety training programs for over 1000 workers in 6 countries
- Holds BS and MS degrees in Engineering
- And has 31 years of multi-national industry experience

PCIC Safety Excellence Award

- The recipient for 2009 is:



Shahid Jamil
Congratulations!

PCIC Safety Excellence Award

- We are now accepting nominations for the 2010 Safety Excellence award.
- An email will be sent to all PCIC Safety Subcommittee members with the nomination information.
- A link to the form will be posted in the Safety Subcommittee section of the PCIC website.
- Nominations are due by October 31, 2009.

Reference Websites

- There are several websites that are available to provide you good electrical resource information or other useful information.
- Those websites are at the end of this presentation.
- This presentation will be available at the PCIC Safety Subcommittee website after the conference.

<http://www.ieee-pcic.org/subcommittees/safety.html>

Membership Update

- A copy of the Safety Subcommittee roster is being circulated.
- Please initial by your name, and check the block for willingness to do paper reviews.
- If you are not a member of the Safety Subcommittee, we invite you to become one. Please provide your name at the end of the rosters. All other info comes from the PCIC member database.
- If any changes during the year, update your information at the Update Member Information link on the PCIC website.

<http://www.ieee-pcic.org/subcommittees/membership/memberupdate.html>

2008 Safety Subcommittee Meeting Minutes

- The 2008 Safety Subcommittee meeting minutes were distributed by email to Safety Subcommittee members and posted on the Safety Sub-Committee page of the PCIC Website.

<http://www.ieee-pcic.org/subcommittees/safety.html>

- Any additions/corrections?
- Motion to approve?

IEEE Email Alias

- Get an IEEE email alias for FREE
- IEEE “one-stop shopping” for updating Email address
- Get your email alias at the following website

http://www.ieee.org/web/membership/benefits/products/prod_emailalias.html?WT.mc_id=hpwd_email

PCIC Outstanding Technical Contribution (OTC) Award

- PCIC is accepting nominations for the 2010 OTC award and requests the Safety SC submit a nomination.
- An email will be sent to all PCIC Safety Subcommittee members with the nomination information.
- The form will be posted in the Safety Subcommittee section of the PCIC website.
- Nominations are due back to one of the Safety SC officers by October 31, 2009.

IEEE IAS Electrical Safety Workshop

Mission

- Advance application of breakthrough improvements in human factors, technology, and managing systems
- Stimulate innovation
- Change and advance the electrical safety culture

IEEE IAS Electrical Safety Workshop

To accomplish our mission, we will...

- Provide forums for sharing and disseminating ideas for preventing workplace injuries from electrical hazards,
- Maintain an intimate, interactive environment, as a unique feature of the annual forum,
- Engage multiple disciplines and professions,
- And create collaboration and synergies among various centers of excellence.

2009 Electrical Safety Workshop

St. Louis, MO February 2-6, 2009

Union Station Marriott

325 Attendees

25 Presentations

43 Exhibits

2 Tutorials

Electrical Safety Management

Electrical Safety Basics

ESW 2010
2010 IEEE IAS Electrical Safety Workshop
Changing the electrical safety culture



► February 1 - 6, 2010, Memphis, Tennessee, USA

Two Keynote Presentations

Jeff Espenship – Target Leadership

Dr Mary Capelli-Schellpfeffer - IEEE

23 Papers

1 Panel Discussion

4 Tutorials

Plant Tours, Expo Show, and Hospitality Suites

ESW 2010
2010 IEEE IAS Electrical Safety Workshop
Changing the electrical safety culture



► February 1 - 6, 2010, Memphis, Tennessee, USA

Memphis, Tennessee February 1-5, 2010

Memphis Marriott Downtown

If you would like to spend 4 days of intense interaction with more than 400 people who share a passion for preventing electrical injuries in the workplace, you are urged to go to Memphis for the 17th annual *IEEE IAS Electrical Safety Workshop*.

IAS/PCIC

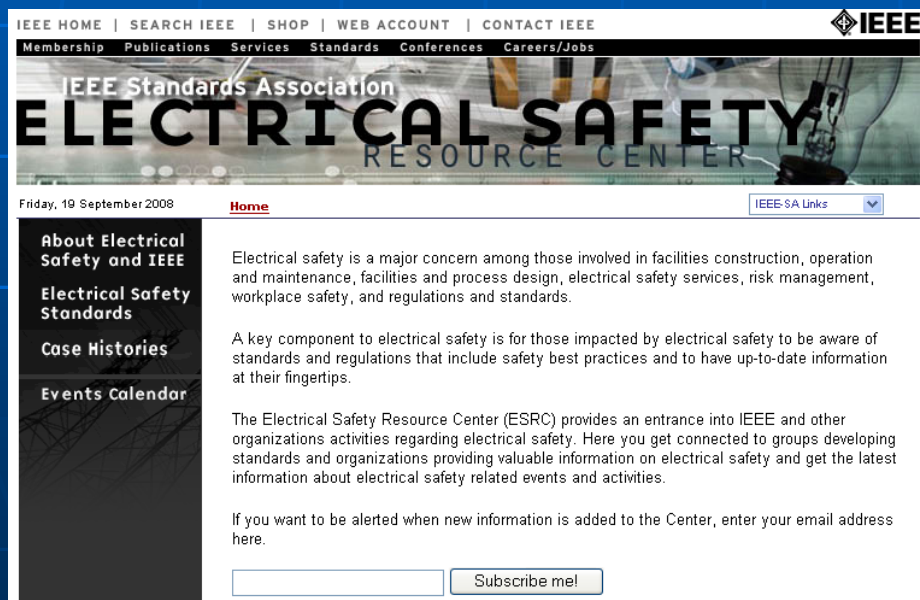
Conferences and Workshops

- **Other Conferences and Safety Workshops**
 - **2009 ESW Brazil – September 23-24**
<http://ewh.ieee.org/cmte/ias-esw>
 - **2009 IAS Meeting – October 4-8, Houston**
<http://www.ewh.ieee.org/soc/ias/2009/>
 - **2010 Electrical Safety, Technical, and Mega Projects Workshop – Mar 29-31, Calgary**
<http://ewh.ieee.org/soc/ias/tmp/>

Electrical Safety Websites

■ Electrical Safety Resource Center

<http://standards.ieee.org/esrc>



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IEEE Standards Association
ELECTRICAL SAFETY
RESOURCE CENTER

Friday, 19 September 2008 [Home](#) IEEE SA Links

About Electrical Safety and IEEE
Electrical safety is a major concern among those involved in facilities construction, operation and maintenance, facilities and process design, electrical safety services, risk management, workplace safety, and regulations and standards.

Electrical Safety Standards
A key component to electrical safety is for those impacted by electrical safety to be aware of standards and regulations that include safety best practices and to have up-to-date information at their fingertips.

Case Histories
The Electrical Safety Resource Center (ESRC) provides an entrance into IEEE and other organizations activities regarding electrical safety. Here you get connected to groups developing standards and organizations providing valuable information on electrical safety and get the latest information about electrical safety related events and activities.

Events Calendar
If you want to be alerted when new information is added to the Center, enter your email address here.



Quote of the Month:
"No safety know pain,
know safety no pain."

IEEE Begins Work on Standard to Recommend Practices for Investigating Events at Nuclear Facilities

Past News
[2008 NEC and Handbook Set Now Available!](#)

[IEEE Supporting Organization of Battery Power 2008. Register through the IEEE to Receive a Discounted Rate](#)

[IEEE Industry Application Society's 15th Electrical Safety Workshop \(ESW\) Focuses on Preventing Electrical Accidents](#)

[Updated IEEE Green Book now available for purchase](#)

[IEEE Releases Updated White Book™ Standard for Health Care Electrical Systems](#)

[IEEE Updates Gold Book™ Standard for Designing Reliable Industrial and Commercial Power Systems](#)

[Safety Training Courses Available Through OSHA](#)

ACTIVITIES
IEEE latest efforts and activities directly impacting electrical safety!
[>>ESRC Activities](#)

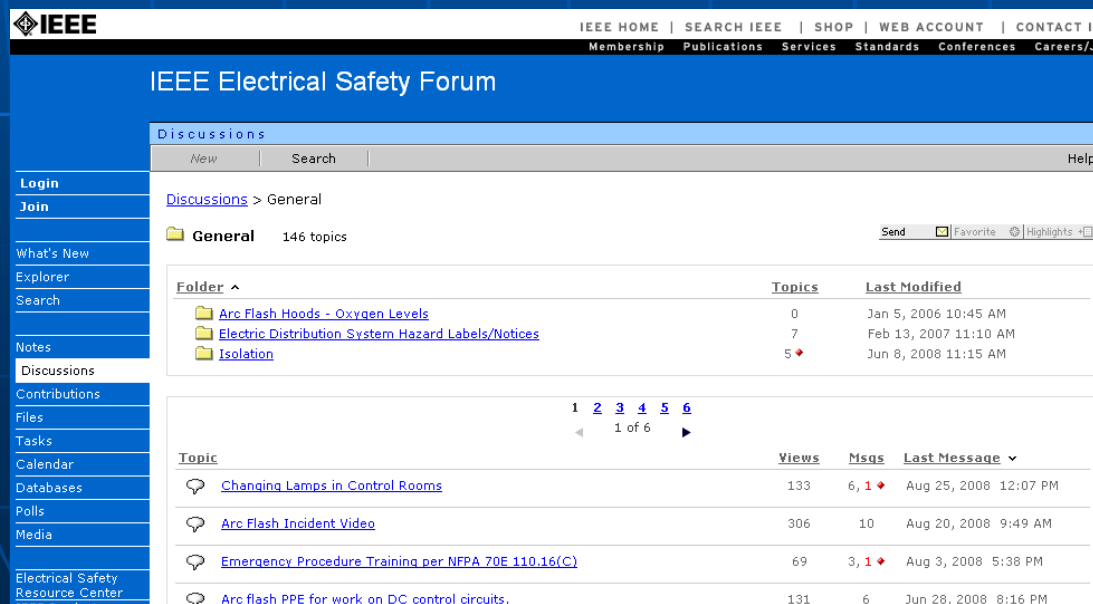
RESOURCES
[IEEE Electrical Safety Virtual Community](#)
This new forum has been established to give individuals interested in electrical safety a place to obtain information, collaborate and share experiences.
[>>ESRC Resources](#)

NEWS
[OSHA Construction eTool: Electrical Incidents](#)
Outlines the most common electrical hazards for the construction industry and provides specific controls to help avoid injury. To access [click here!](#)
[>>ESRC News](#)

Electrical Safety Websites

- IEEE SA Electrical Safety Forum
 - Virtual Communities
 - Online 24/7 Electrical Safety Community

<https://www.ieeecommunities.org/ieee.esafety>



The screenshot displays the IEEE Electrical Safety Forum interface. At the top, there is a navigation bar with links for IEEE HOME, SEARCH IEEE, SHOP, WEB ACCOUNT, and CONTACT IE. Below this, a secondary navigation bar lists Membership, Publications, Services, Standards, Conferences, and Careers/J. The main header reads 'IEEE Electrical Safety Forum'. A left sidebar contains various utility links such as Login, Join, What's New, Explorer, Search, Notes, Discussions, Contributions, Files, Tasks, Calendar, Databases, Polls, Media, and Electrical Safety Resource Center. The main content area is titled 'Discussions' and shows a 'General' folder with 146 topics. A table lists sub-folders: 'Arc Flash Hoods - Oxygen Levels' (0 topics, last modified Jan 5, 2006), 'Electric Distribution System Hazard Labels/Notices' (7 topics, last modified Feb 13, 2007), and 'Isolation' (5 topics, last modified Jun 8, 2008). Below the folder list, a table of topics is shown with columns for Topic, Views, Msgs, and Last Message. The topics listed are 'Changing Lamps in Control Rooms' (133 views, 6 messages), 'Arc Flash Incident Video' (306 views, 10 messages), 'Emergency Procedure Training per NFPA 70E 110.16(C)' (69 views, 3 messages), and 'Arc flash PPE for work on DC control circuits.' (131 views, 6 messages).

Folder	Topics	Last Modified
Arc Flash Hoods - Oxygen Levels	0	Jan 5, 2006 10:45 AM
Electric Distribution System Hazard Labels/Notices	7	Feb 13, 2007 11:10 AM
Isolation	5	Jun 8, 2008 11:15 AM

Topic	Views	Msgs	Last Message
Changing Lamps in Control Rooms	133	6, 1	Aug 25, 2008 12:07 PM
Arc Flash Incident Video	306	10	Aug 20, 2008 9:49 AM
Emergency Procedure Training per NFPA 70E 110.16(C)	69	3, 1	Aug 3, 2008 5:38 PM
Arc flash PPE for work on DC control circuits.	131	6	Jun 28, 2008 8:16 PM

ESFi - Electrical Safety Foundation International

- Mission: To reduce electrical injuries and deaths through education
- Information on Home, School and Workplace electrical safety
- Several items available as FREE downloads
- Promoter of Electrical Safety Month in May of each year

<http://www.esfi.org/index.php>

2011 National Electrical Code

- Proposals for the 2011 NEC were reviewed by the Code Making Panels in January. The Report on Proposals can be found at:

<http://www.nfpa.org/Assets/Files/PDF/ROP/70-A2010-ROP.pdf>

- The deadline for the 2009 comments is October 23, 2009.

Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- Investigations began after 2 accidents occurred
- One alleged willful and nine alleged serious violations of OSHA regulations governing electrical hazards
- Workplace conditions allegedly contributed to two employees being burned by an electrical arc flash on April 9

Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- Alleged inadequate safety measures were in place to protect against electrical hazards at the time of the February 2 accident; however, the coroner could not determine if those conditions contributed to the final cause of death
- "At the time of both accidents, the company's procedures for dealing with electrical hazards were inadequate. Miller-Coors needs to take the necessary steps to eliminate electrical hazards in its workplaces."

Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- The alleged willful violation stems from the company's failure to ensure the use of appropriate electrical protective equipment when employees were working on or near energized electrical parts. OSHA issues a willful violation when an employer exhibits plain indifference to or intentional disregard for employee safety and health.

Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- The serious violations relate to inadequate safe work practices and failure to ensure adequate personal protective equipment was available and used by employees working on or near energized equipment. OSHA issues a serious citation when death or serious physical harm is likely to result from a hazard about which an employer knew or should have known.
- OSHA proposes \$128,500 in penalties against the company for the alleged violations

Standards and Regulations Activity

- NFPA 70E
- IEEE 1584
- IEEE/NFPA Arc Flash Research Project
- IEEE 463, Electrical Safety Practices in Electrolytic Cell Line Work Zones
- IEEE P1716, Managing Natural Disaster Impact
- IEEE P1683, Enhance Safety MCC
- Incident Data Collection, Fax Anonymous Registry (FAR) Project

<http://www.capschell.com/FARProject1999.htm>

2009 Safety Subcommittee Technical Session Presentations

- Wednesday, September 16
- 2:00pm to 5:00 pm
- Hilton California-C Room

2009 Safety Subcommittee Technical Session Presentations

- **Predicting Let-Through Arc Flash Energy for Current Limiting Circuit Breakers**
 - Marcelo Valdes , GE Consumer and Industrial
 - Thomas Papallo , GE Consumer and Industrial
 - George Roscoe, GE Consumer and Industrial
- **Higher Cycle Withstand MCC's for better Selective Coordination**
 - Rajiv Kumar – Eaton Corporation
 - Robert Morris – Eaton Corporation
 - Samuel Terry – Eaton Corporation
 - Douglas Reed – MWH Americas

2009 Safety Subcommittee Technical Session Presentations

- Potential Impact of ANSI Z10 and CSA Z1000 on Reducing Electric Shock and Arc Flash Injuries
 - H. Landis Floyd, DuPont

- Attend these sessions to learn something and show support for these authors.

2010 Safety Subcommittee Technical Session Proposals

- The following are the proposed Safety Subcommittee papers for 2010.

2009 Paper Carry-over

- Arc Flash Hazards with Electric Fire Pump Installations
 - Richard Holub – DuPont
 - Dan Doan – DuPont
 - Robert L. Anderson – DuPont

Feature Presentation

- First Aid after an Arc Flash Injury - A few things every electrical worker should know
- Dr. Mary Capelli-Schellpfeffer

Final Slide

- Any other business for now or 2010?
- Adjourn

Thanks for coming!

Reference Websites

- **PCIC Safety Subcommittee**
<http://www.ieee-pcic.org/subcommittees/safety.html>
- **IEEE Senior Memberships**
<http://www.ieee.org/web/membership/senior-members/index.html>
- **IEEE Email Alias**
http://www.ieee.org/web/membership/benefits/products/prod_emailalias.html?WT.mc_id=hpwd_email
- **IEEE Electrical Safety Workshop**
<http://www.ewh.ieee.org/cmte/ias-esw/>
- **IEEE Electrical Safety Resource Center**
<http://standards.ieee.org/esrc>
- **IEEE Electrical Safety Forum**
http://www.ieeecommunities.org/ieee.esafety?invitation_key=410-F78D0DB86C

Reference Websites

- **ESFi – Electrical Safety Foundation International**
<http://www.esfi.org/index.php>
- **NIOSH – National Institute for Occupational Safety & Health**
<http://www.cdc.gov/niosh/>
- **OSHA – Occupational Safety & Health – Overhead Power Lines Website**
<http://www.osha.gov/Region7/overheadpowerlines/index.html>
- **Electrical Contractors Industry Standards**
<http://www.osha.gov/SLTC/electricalcontractors/standards.html>
- **IEEE Membership Updates**
[http://www.ieee-
pcic.org/subcommittees/membership/memberupdate.html](http://www.ieee-
pcic.org/subcommittees/membership/memberupdate.html)