

2008 PCIC Annual Conference Safety Subcommittee Meeting Agenda

Tuesday, September 23, 2007
Hilton Rosewood Room
3:00pm – 5:00pm

Agenda

- Welcome
- Safety Subcommittee Officers
- Membership Update
- 2007 Subcommittee Meeting Minutes
- IEEE Senior Memberships
- IEEE Email Alias
- PCIC Safety Excellence Award
- IEEE IAS Electrical Safety Workshop
- Electrical Safety Resource Center
- Electrical Safety Forum

Agenda Continued

- ESFI
- Safety Sub Committee Products Available
- Reference Websites
- Case Studies – Unknown Arc Flash
- Working Group Reports
- Task Group for Disaster Recovery
- Standards and Regulation Activity
- 2007 Safety Subcommittee Presentations
- 2008 Safety Subcommittee Proposals
- NFPA 70E Highlights
- Adjourn

Safety Subcommittee Officers

- Chair Jim Bowen Powell
- Vice-Chair Kevin Lippert Eaton
- Secretary Paul Sullivan DuPont

- In-coming Secretary
 - Ed Larsen of Square D/Schneider Electric

Membership Update

- Two copies of the Safety Subcommittee roster are being circulated
- Please review, initial by your name, and check the block for willingness to do paper review
- If you are new to the Safety Subcommittee, please provide your name at the end of the rosters, all other info comes from registration
- If any changes during the year, update your information at the Update Member Information link on the PCIC website
<http://www.ieee-pcic.org/>

IEEE Email Alias

- Get an IEEE email alias for FREE
- Avoid missed e-mails due to change of business or personal email address changes
- Get your email alias at the following website

<http://eleccomm.ieee.org/>

2007 Safety Subcommittee Meeting Minutes

- The 2007 Safety Subcommittee meeting minutes were distributed by email to Subcommittee members
- Any corrections?
- Motion to approve?

IEEE Senior Memberships

- Receive recognition from peers for technical and professional excellence
- Receive letter of commendation to your employer
- Receive attractive wood and bronze engraved plaque
- For more information on Senior Memberships, see the following website

<http://www.ieee.org/web/membership/senior-members/index.html>

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 Neal**

PCIC Safety Excellence Award

- We are now accepting nominations for a 2009 award
- An email will be sent to all PCIC Safety Subcommittee meeting attendees with the nomination form
- Nominations are due by October 31, 2008

Electrical Safety Workshop 2008 Subcommittee Report

Danny Liggett-(David Pace)



www.ewh.ieee.org/cmte/ias-esw

2009 Electrical Safety Workshop

- February 2-6, 2009
- St. Louis, Missouri
- Earlier report from Ben McClung

IAS/PCIC

Conferences and Workshops

- Other Conferences and Safety Workshops
 - 2008 IAS Meeting – October 5-9, Edmonton
<http://www.ewh.ieee.org/soc/ias/2008/>
 - 2008 Electrical Safety, Technical, and Mega Projects Workshop – November 19-21
<http://ewh.ieee.org/soc/ias/tmp/>
 - 2009 ESW Brazil – September 23-24
(website available later)

IEEE Electrical Safety Resource Center Website

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



Friday, 19 September 2008

[Home](#)

IEEE-SA Links

About Electrical Safety and IEEE

Electrical Safety Standards

Case Histories

Events Calendar

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.

A key component to electrical standards and regulation are at their fingertips.

The Electrical Safety Resource Center provides information about electrical safety organizations activities and standards and organizational information about electrical safety.

If you want to be alerted 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](#)

IEEE-SA Electrical Safety Forum Virtual Communities

http://www.ieeecommunities.org/ieee.esafety?invitation_key=410-F78D0DB86C

(to register and join)

IEEE Electrical Safety Forum

- Login
- Join
- What's New
- Explorer
- Search
- Notes
- Discussions
- Contributions
- Files
- Tasks
- Calendar
- Databases
- Polls
- Media
- Electrical Safety Resource Center

Discussions

New | Search | Help

[Discussions](#) > General

General 146 topics Send | Favorite | Highlights

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

1 | 2 | 3 | 4 | 5 | 6
 ◀ 1 of 6 ▶

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

ON LINE 24/7 ELECTRICAL SAFETY COMMUNITY

To Join: Go to <https://www.ieeecommunities.org/ieee.esafety>

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>

Electrical Safety Products Available through the Safety Subcommittee

- Go to <http://www.ewh.ieee.org/cmte/ias-esw/products.htm>
- Arc Flash Video/Presentation (mannequin test)
\$75
- David Wallis Video
\$25
- Contact Danny Liggett at danny.liggett@ieee.org

Contact Info

IEEE/PCIC Safety Sub-Committee
c/o Danny Liggett
DuPont Engineering
CDI Engineering
955 W Sam Houston Parkway South
Houston, TX 77099
Phone 713-354-0616
Fax 713-354-0694

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>

Case Study – Arc Flash Incident in Unknown Data Center

- Low voltage
- Low energy
- Not a major manufacturer's switchgear
- Solidly grounded
- Bar bus or damaged insulation on bus



Arc Flash Accident Live.wmv

Case Study – Arc Flash Incident in Unknown Data Center

- Discussion

Working Group Reports

- Safety Considerations in Electrical Systems Design
 - Bruce McClung - Chair

- Incident Data Collection, Fax Anonymous Registry (FAR) Project
 - Dr. Mary Capelli-Schellpfeffer
 - <http://www.capschell.com/FARProject1999.htm>

Standards and Regulations Activity

- NFPA 70E
- IEEE 1584
- IEEE/NFPA Arc Flash Research Project
- P1606, American/European Electrical Work Practices
- IEEE 463, Electrical Safety Practices in Electrolytic Cell Line Work Zones
- IEEE P1716, "Managing Natural Disaster Impact on Key Electrical Systems and Installations in Petroleum and Chemical Facilities
- IEEE P1683, Enhance Safety MCC

2008 Safety Subcommittee Technical Session Presentations

- Wednesday, September 24
- 2:00pm to 5:00pm
- Hilton Pavillion Room

2008 Safety Subcommittee Technical Session Presentations

- **Comparative Study of Arc Modeling and Arc Flash Incident Energy**
 - PK, Sen, Colorado School of Mines
 - Ravel Ammerman, Colorado School Of Mines
 - Tammy Gammon, Consultant
 - John Nelson, NEI Electrical Power Systems
- **Safety First: Detection of Downed Conductors & Arcing Overhead Distribution Lines**
 - Mark Adamiak, GE Multilin

2008 Safety Subcommittee Technical Session Presentations

- The Importance and Process of Auditing an Electrical Safety Program
 - John Aeiker, DuPont
 - Shahid Jamil, Imperial Oil
 - Ray Crow, DRC Consulting
- Attend these sessions to learn something and show support for these authors.

2009 Safety Subcommittee Technical Session Proposals

- The following are the proposed Safety Subcommittee papers for 2009
- Circulate the Ballot sheets
 - Fill in circles properly (No X's)
 - Fill in only those numbers where abstract is presented, leaving the others blank
 - Make no other marks on the sheet

2008 Paper Carry-over

- Higher Cycle Withstand MCC's for better Selective Coordination
 - Rajiv Kumar – Eaton Corporation
 - Robert Morris – Eaton Corporation
 - Samuel Terry – Eaton Corporation
 - Doug Reed – Eaton Corporation

NFPA 70E-2009

- “Top changes” presentation by Ray Crow
- Discussion is invited!

Final Slide

- Any other business for now or 2009?
- Adjourn

Thanks for coming!

Reference Websites

- PCIC Safety Subcommittee

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

- IEEE Senior Memberships

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- IEEE Email Alias

<http://elecomm.ieee.org/>

- IEEE Electrical Safety Workshop

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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>