

IEEE IAS Electrical Safety Workshop
Index of Presentations, Keynote Speakers and Tutorials 1992-2024
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 Revised 14 March 2025

This index is maintained to:

- Help authors identify and reference previously published papers
- Help authors and conference organizers to identify opportunities to address gaps in topics previously addressed
- Assist members of the Electrical Safety Committee to identify award nominees and develop nominations
- Maintain a historical record of the evolution in work to advance the mission of the Electrical Safety Committee

Topic

Title

Speakers

Year

Auditing and Benchmarking

Electrical Safety Auditing	D. Ray Crow	1998
Construction Inspections	Paul Brantley	2000
Looking Out for Each Other	Garry Donner	2001
A Need for Electrical Benchmarking	Bruce McClung, John Propst	2002
A Second Set of Eyes—The Benefit of a Third Party Audit	Robert Huddleston, D. Ray Crow	2003

Topic

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Speakers

Year

Benchmarking End Users

G. Paolette

2005

Developing a State of the Art Electrical Safety Auditing Program

D. Ray Crow, John Aeiker

2007

Second Party Audit Program – Summary of One Company’s Approach and Findings

Paul Sullivan, Bruce Cole

2008

Structure, Applications, and Case Study of a Leading Indicator Database in Construction

C. Bryan Drennan

2008

Auditing is a Critical Element in Any Electrical Safety Program

John Aeiker, D. Ray Crow

2013

Improving Workplace Electrical Safety through Self-Assessment

Brett Brenner

2013

Ask the Right Question

Ron Zieber, Ken Cox

2014

Electrical Safety Audit Findings—Do’s and Don’ts

Terry Becker

2014

External Audits to Evaluate and Enhance Electrical Safety and Maintenance

C. Satish, Daryld Ray Crow

2014

A Balanced Scorecard of Leading and Lagging Indicators for Your Electrical Safety Program

H. Landis Floyd

2021

Topic

Title

Speakers

Year

Business Consequences

Life Cycle Cost

Lynn Saunders

1998

Electrical Safety Implications of Y2K

Lanny Floyd

1999

It's Not Over When It's Over -- The Hidden Cost of Incidents and Accidents

Ron Hayes, Dr. Mary Capelli-Schellpfeffer

2002

Cost Benefits of Electrical Safety

Dr. Mary Capelli-Schellpfeffer

2003

To Work Hot or Not – What Costs Drive the Decision

Michael Callanan, Dr. Mary Capelli-Schellpfeffer

2004

Beyond Injury Prevention – Understand the Power of Your Electrical Safety Program

Lanny Floyd

2006

A Contractor Can Be Safe and Successful

Dean Gatien

2010

Business Case for an Electrical Safety and Maintenance Program

Karl Cunningham, Michael Kovacic

2018

What Occupational Injury Costs and Workers Compensation Tells Us about Electrical Injuries and the Need to Invest in Electrically Safer ...

Tammy Gammon, Iragaba Intwari

2018

Topic

Title

Speakers

Year

Why Be Concerned About Electrical Safety and What Impact It May Have on Business Cost

Joe Rachford

2022

Does NFPA 70 (NEC) and NFPA 70E Add Electrical Safety Value to Electric Utilities?

George T. Cole

2024

Making the Business Case for Electrical Safety in the Workplace

Martin Aguilera, Wes Mozley

2024

Case Histories

Case Histories of accidents

Clark Lockerd

1992

Electrical Accident Case Histories

Clark Lockerd, Lanny Floyd

1995

Electrical Case Histories

Clark Lockerd

1996

Review of Accident Case Histories

Lanny Floyd

1997

Electrical Incident Case Histories

David Pace, Shahid Jamil

1998

Electrical Incident Case Histories

Joe Andrews, David Pace

1999

Topic

Title

Speakers

Year

Top 10 Reasons Why I Won't Wear Arc Flash PPE

Danny Liggett

2001

Power Systems

Joe Andrews

2001

Test instruments

Len Cicero

2001

Going Outside the Boundary

Lynn Saunders

2001

Lighting Systems

Ray Jones

2001

I assumed my buddy knew it was energized

Steve Wilson

2001

Who's at Fault -- Contractor or Owner?

Joe Andrews

2002

I Thought it was Deenergized

Ray Crow

2002

Electrical Classification

Charlie Hoy

2002

Electrical Shock Close Call

Jim Hill

2002

Topic

Title

Speakers

Year

Insulated Tools

Don Zipse

2002

Pain and Suffering

Joe Andrews

2003

Business Impact

Connie Drawhorn

2003

Arc Flash Burn Survivor Testimonial

Ben Johnson

2003

A Missing Permit

D. Ray Crow

2003

Two Similar Incidents- Two Different Outcomes

Dan Doan, Lanny Floyd

2006

A Global Company

John Cadick

2006

A Qualified Person?

Ken Mastrullo

2006

Arc Flash Incident in a Chemical Manufacturing Facility

Bob Huddleston

2006

Incident Case History: Arc Flash Study Experiences

Craig Wellman

2007

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Year

More Safety with Thru – Door Voltage Indication	Philip Allen	2007
Electrical Arc Flash Incident	Yves Tremblay	2007
No Power Outage Required	Eva Clark	2007
Vacuum Breaker Failure	Jim White	2007
The Human Side of Electrical safety	Andrew Hernandez	2008
A Novel Solution for Lockout/Tagout in Hazardous Locations	Robert Huddleston, Richard Ryland	2008
Testing to Verify Operation of Interlocks in MV Motor Starters	Becky Lobitz	2008
Could a Proper Repair Have Prevented this Accident?	Stephen Wilson	2008
Improper Labeling and Look Alike Equipment — A Dangerous Combination	D. Ray Crow	2008
Case History: Eliminating Multiple Sources of Error	Dennis Hill	2009

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Speakers

Year

Realizing Electrical Safety Dream Against major Hurdles	Shahid Jamil	2009
Electrical Safety Coalition	Mike Doherty	2010
A Serious Near-Miss When Disconnecting a 4 kV Motor	Shahid Jamil	2011
Electrical Safety—Is Your Brain Engaged?	Leon Greenwood	2011
The Label Says...	Dennis J. Hill, Paul R. Ruhland	2011
Case History—Contract Employee Cuts into Energized 13.8 kV Cable	Bob Huddleston	2013
Electrical Safety Myths and Facts	Jim White	2013
Case Study: Electrical Disaster Recovery Operations for a Hospital	Mike Moore	2013
I Thought I Got Shocked	Joe Rachford, Eric Castle	2013
Arc Flash Hazard Remediation at Electric Utility Generation Stations: A Case Study	Thomas H. Blair, Ralph D. Painter, George M. Bolos	2013

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Speakers

Year

Live Work on a Lighting Circuit Results in Serious Injuries

Shahid Jamil

2013

Are You Safe with Your Temporary Protective Grounds?

Steve Leblanc

2014

The \$125,000 Field Mouse

Scott J Carroll

2014

Electrical Safety Myths and Facts: Part 2

Jim White

2014

EBMUD Walnut Creek Raw Water Pumping Plants Electrical Safety Improvements Project—Turning a Bad Situation into an Opportunity

Diosdado V. Hernandez, Doug Handran, Sonja L. Mah

2014

Case History—Motor Terminated Incorrectly by a “Qualified Person”

David A. Pace

2014

Take Something Home

Joe Rachford, Butch Collins

2015

Failures of Equipment Operating Under Normal Operating Conditions

Paul Sullivan

2018

Case Study: Unforeseen Shock Hazards from Code Compliance at an Above Ground Pipeline Valve Station

Henry Clark, Bill Stewart

2018

Case History on a Tracking Arc

Zarheer Jooma, Hugh Hoagland, Robert Hines Jr.

2018

Topic

Title

Speakers

Year

IEEE/NFPA Research Collaboration Update

Mike Lang, Wei-Jen Lee

2018

NESC presentation

Lanny Floyd

2018

Introduction to Electrical Safety in the High School for Prospective Engineering Students

Mark Scarborough

2018

Service Entrance Disconnect Near Miss

Joel A. Pettit, Jose Chapa

2018

Advancing Workplace Safety Through Vintage Equipment Upgrades

David B. Durocher, Matthew Koepke, David Fisher

2019

What Could I Have Done Differently?

Joe Rachford

2019

Don't Skip Any Steps

Dennis Hill

2019

Shock Potential Mitigation at a Copper Electrolytic Electrowinning Plant

R. Jeffrey Hall, Arthur Ridenhour, Nick Ferreira

2019

IEEE/NFPA Research Collaboration Update

Mike Lang

2019

Use of Specific Purpose Fuses for Mitigation of Arc Flash Hazard

Mark Babb

2019

Topic

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Speakers

Year

Painful Memories of an Electrical Accident

Steve Park

2019

Case Study of Hazards Associated with Neutral Conductors

Robert Lauricella

2019

Hinged or Unhinged: How to Operate Equipment Based on Lab Studies and Incident Investigations

Hugh Hoagland, Paul B. Sullivan

2020

Checklists Save Lives

Ray Crow

2020

IEEE Collaboration Testing Update

Wei Jen Lee

2020

Leading Edge Safety-by-Design of a Wastewater Solids Pretreatment Facility

Eric Campbell

2020

But It Was Just a Little Shock

Wes Mozley

2020

Low Voltage 100-500 Vdc Arc Flash Testing

Kirk Gray, S. Robert, Timothy L. Gauthier

2020

How to Sell an Investment in Electrical Safety and Maintenance

Greg Drewiske

2020

Complacency Is Your Enemy: Anatomy of an Arc Flash Incident and Lessons Learned

Tommy R. Martinez, Julian K. Trujillo

2020

Topic

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Speakers

Year

Good Things Can Come From Bad Events	Robert LeRoy	2020
To Ground or Not to Ground	Kenneth Sellars	2021
Worker Contact with Electricity: The Characteristics of a Workplace Electrical Fatality	Brett Brenner, Daniel Majano	2021
What Happens when the Host Employer makes a Mistake?	Dennis Kennedy	2021
Effective Job Briefings Improve Safety	D. Ray Crow	2021
Understanding and Getting Involved in NFPA's Standards Development Process	Diana Jones, David Pace	2021
Arc Flash Incident in Wind Turbine	Ron Zieber, Wayne Oliver	2021
Lessons Learned Developing Standardized PPE Levels, Task-Specific Risk Assessments for a Multinational Company	John Mason, Joshua Kerr, Donald Lockhart, Elihu "Hugh" Hoagland	2021
An Accident Waiting to Happen	Wes Mozley	2021
Arc Rated PPE Issues	Paul Sullivan	2022

Topic

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Speakers

Year

Transformer Failure Due to Oil Sampling Dennis Hill 2022

Did You Test Really Test That Interlock? Paul Sullivan 2023

Learnings from a 480 Volt Arc-Flash Event Paul Sullivan, Mark Scarborough 2023

Case Studies in Battery Risk Assessment David Rosewater, Curtis Ashton 2024

Electric Shock Near Miss: An Ungrounded Messenger Cable David A. Pace 2024

Protective Wall: Arc Cube Installation Kirk Gray, Jean Brouillette, Jim Pollard 2024

Electrical Fatal Accident by Electric Shock and Epidemiology in 2018 Norimitsu Ichikawa 2024

Classified Hazardous Areas

Hazardous Locations/Zone Concepts Ed Briesch 1998

Area Classifications John Propst 1999

Topic

Title

Speakers

Year

Explosion Protection Method "e" Increased Safety

Charlie Hoy

1999

IEC Ex Scheme - US Implications

John Rennie

2000

A Canadian Perspective on the Zone Classification Approach

Vince Rowe

2001

Electrical Area Classification - New Tools for an Old Problem

John Propst

2002

Seminar on Zone and Area Classification

Heinz Bockle

2004

Safety in Classified Areas

Scott Seaver, Richard Holub

2005

Methods of Protection in Hazardous Locations

Scott Seaver

2006

Installation, Operation and Maintenance Considerations for Electrical Equipment in Hazardous Location

Marty Cole, Tim Driscoll, Ken Martin

2010

Codes, Standards & Regulations

Discussion of interaction of Committees & working Groups involved with electrical safety

R. Jones, B. McClung

1992

Topic

Title	Speakers	Year
OSHA Subpart S	Bruce McClung	1995
OSHA Subpart R—Maintenance Standard Overview for Non-Utilities	Kathy Wilmer, Ray Jones, Lynn Roach	1995
Changes to NFPA 70E "Electrical Safety Requirements for Employee Workplaces"	Ray Jones, Bruce McClung, Lynn Saunders	1995
Electrical Safety-Related Regulations Overview — OSHA Subpart R	D. Ray Crow	1996
The OSHA Process - OSHA Subpart S	Ray Jones	1996
Most Violated Electrical Regulations-Panel Discussion	Lynn Roach, Walter Hyde, Clark Lockerd	1996
Electrical Safety Regulation Overview - Subpart S and R, OSHA, NFPA 70E	D. Ray Crow, Ray Jones	1997
Electrical Safety Overview - Latest changes (actual or proposed) in regulations	Bruce McClung	1997
Regulations Overview	Ray Jones	1998
OSHA Update & Questions	Dave Wallis	1998

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Speakers

Year

IEEE Yellow Book Review

Lanny Floyd, Joe Andrews

1998

IEEE Yellow Book Review

Lanny Floyd

1999

Regulations Overview

Ray Crow

1999

Proposed Changes to NFPA 70E

Joe Andrews, Paul Hamer

1999

OSHA Update & Questions

Belinda Cannon

1999

Limitations of Subpart S / Most Violated Regulations

D. Ray Crow

2000

NFPA 70E Update & Changes

Ray Jones

2000

OSHA Direction in Electrical Safety

David Wallis

2001

What is in Store for NFPA 70E-2003

Ken Mastrullo

2002

NFPA 70E and OSHA 1910 Vs 1926 What Applies When?

Ray Jones

2002

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Speakers

Year

The Evolution in Codes and Standards	Joe Andrews	2003
Landmark Agreement: Using NFPA70E to Protect Electricians, Columbus OSHA	Ken Mastrullo	2003
Potential Changes to NFPA70E-2003	Ray Jones, Ken Mastrullo	2003
An Update on NFPA70E	Ken Mastrullo	2004
NFPA70E Table Proposal	Paul Hammer	2004
Update on NFPA70E	Paul Dobrowski	2005
Electrical Safety in the Workplace through Design, Construction, Operational and Maintenance Practices, 70E Concerns	John Nelson	2005
Update NFPA70B	Mel Sanders	2005
Discussion of NFPA70E	Ken Mastrullo, John Nelson	2005
Working Together to Make the Americas Safer	Mark Earley	2007

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Speakers

Year

NFPA 70E Changes (Maybe) & How You Can Provide Input

Paul Dobrowsky

2007

NFPA70E Update

Paul Dobrowsky

2008

Combining the Best of Both Worlds?

Lt I. F. G. Marx

2008

CSA Z462 Update

Mike Doherty

2008

Keynote: Does NFPA70E Really Require Anything New?

Palmer Hickman

2008

Introduction to OSHA 1926 Subpart V

Bob Isminger

2008

Toward a More Globally Effective Standard for Occupational Electrical Safety

Lanny Floyd

2009

2009 NFPA70E New Requirements, Enhancements and Future Improvements

Paul Dobrowsky

2009

Case History: A Day with an OSHA Compliance Officer

Chris Matthewson

2010

Proposed Changes to NFPA 70E-2012

Paul Dobrowsky

2011

Topic

Title

Speakers

Year

Overview of Changes to IEEE 902	Dennis K. Neitzel, Carey J. Cook, Michael E. Simon, Robert J. Schuerger, Ron Widup	2011
CSA Z462—Panel Discussion	Mike Doherty, Daniel Roberts, John Salmon, Francis Hardy, Kerry Heid	2011
Why are NFPA 70E and CSA Z462 Different?	Stephen Wilson, Kerry Heid, Tom Neal, Daniel Roberts	2012
National Electric Safety Code (NEC)-2012—Part 4	Pamela Tompkins	2012
Changes to OSHA's 29 CFR 1926 Regulations	Jim White	2012
Proposed Changes to NFPA70E - 2015	Paul Dobrowsky	2013
NFPA 70E 2015 Proposed Changes	Paul Dobrowsky	2014
Electrical Safety in the Industrial Workplace: an IEC Point of View	Massimo Mitolo, Peman Montazemi	2014
Using ASTM F2677 Standard Specification for Electrically Insulating Aprons	Hugh Hoagland, Tom Rege	2014
Case Study Submitting Standard Proposals to the NFPA	Alvin Havens	2015

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Title	Speakers	Year
ASTM F2676, Added Safety for Confined Space Workers	Victor L. Petrovic	2015
Redeveloping the 2018 NFPA 70E Annex K and Contemplating Beyond	Tammy Gammon, Wei-Jen Lee, Zhenyuan Zhang, Ben Johnson, James Beyreis	2015
Changing the Code® Culture	Brett Brenner	2015
Update on 70E 2018	Paul Dobrowsky	2016
NFPA 70E-2018 Edition Changes	Paul Dobrowsky	2017
NFPA 70E-2021 Edition Proposed Changes	Paul Dobrowsky	2019
How NFPA 70B Addresses the Reliability Requirements of NFPA 70E	Jim White	2020
Ground-Fault Circuit Interrupters (GFCIs)—From a Standards Perspective	Nehad El-Sherif, Thomas A. Domitrovich, Frederick P. Reyes	2020
NFPA 70E-2021 Edition Proposed Changes	Paul Dobrowsky	2020
Electrical Safety Worldwide	Lloyd B. Gordon, Jesse Liechty, Ernst Esch	2022

Topic

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Speakers

Year

NFPA 70E-2024 Edition Proposed Changes

Paul Dobrowsky

2022

Best Practices for Non-Nationally Recognized Testing Laboratory Utilization Equipment Inspection Processes

Michael Anderson, Drew Thomas

2023

The New NFPA 70B-2023 Standard for Electrical Maintenance

Marcelo Valdes, Karl Cunningham

2023

Advancing Electrical Safety Towards a Global Electrical Work Safety Standard

Vesa Linja-Aho

2023

A Tale of Two Standards

Daniel Roberts

2024

Construction Safety

Electrical Safety in Construction

Dr. Michael McCann

2002

NFPA70E as it Applies to Construction Sites

Brian Drennan

2003

Keynote: Focusing on Construction Electrical Safety

Kenneth Mastrullo

2008

Construction Power Design, Installation and Control Considerations for a Large Industrial Construction Project

Mark Cross, Scott Mitchell

2015

Topic		
Title	Speakers	Year
<i>Contractor Safety</i>		
Contractor compliance	John Moore	1992
Contractor Safety	Danny Liggett	1996
Safe Electrical Work Practices in Construction	Danny Liggett	1998
Contractor Safety Management	Danny Liggett	1999
Contractor Safety Management	Danny Liggett	2002
Contractor Safety	Danny Liggett	2004
Specialty Contractor Safety Integration	Ike Spivey	2004
Considering Your Own People Like Contractors	Steve Wilson	2004
Outside Contractors/Vendors/Service People – “Electrically Qualified” or Not?	David Pace	2005

Topic

Title

Speakers

Year

Electrical Safety for Contractors and Service Personnel

Dennis Neitzel

2008

Service Contractor Realities – Minimizing Risk

Ronald Bergeron

2011

Designing for Safety

Electrical Safety Overview - Effective/Implementation of Electrical Safety Regulations and Standards

David Pace, Shahid Jamil, Lanny Floyd

1997

Electrical Safety Overview - Where to get copies of information

Kim Eastwood

1997

Reducing the Electric Arc Hazard by Design

Arthur Smith

1998

Electrical Safety by Design

Bob Rafferty, Daleep Mohla, Shahid Jamil

1998

Electrical Safety by Design

Rich Epperly, Daleep Mohla

1999

Safety by Design-Retrofitting High Resistance Grounding Systems

Jim Bowen

1999

Creating Innovative Relationships with Suppliers

Jim Catherine

1999

Topic

Title

Speakers

Year

Safety by Design	Bob Rafferty	2000
Low Voltage Current Limiting Fuses to Reduce Arc Flash	Vince Saporita	2000
Intro to Safety by Design	Jim Bowen	2001
Safety by Design - Power Systems	Daleep Mohla	2001
Panel Discussion: Electrical Safety by Design	Jim Bowman, Bruce McClung, John Nelson, Vince Saporita, Gary Wetzel	2002
Labor Liaison	Cindy Coe, Dean Foster	2002
Impact of Relay Coordination on Arc Flash Boundary	David Pace	2004
Impact of Overcurrent Protection on Arc Flash	George Gregory	2004
Electrical Design Safety and You	Gus Zeller	2004
Electrical Safety Through People and Design	Ken Moses, Steve Wilson	2005

Topic

Title

Speakers

Year

Design Issues Beyond NEC	Paul Dobrowsky	2005
Lighting Design Reduces Incidents	M. Walton, Tim Driscoll, R. Loiselle, G. Brady	2005
Reducing the Dangerous Arc Flash Hazard in Industrial Facilities	Mike Hodder, W. Vilcheck, F. Croyle, D. McCue	2005
Issue and Resolutions with High Resistance Grounding	Tony Locker	2006
Effect of High Fault Currents on Ground Grid Design	Peter Sutherland	2006
Electrical Design Refined for Safety	Bruce McClung, Ben McClung, Daleep Mohla	2006
Incident Case History: Creation of a New Electrical Safety Device	Danny Liggett, Greg Steinman	2007
Early Stage Arcing Fault Detection for Medium / Low Voltage Switchgear	Wei-Jen Lee	2007
Safety and Environmental Evaluation of Insulating Media in MV Distribution Systems	Robert Yanniello	2008
Designing a Site Electrical System with Arc Flash Energy Under 20cal/cm ²	Daniel Doan	2008

Topic

Title	Speakers	Year
The NIOSH “Prevention Through Design” Initiative	Lanny Floyd	2008
Designing Out Arc Flash Hazards, Using Two Examples of Eliminating the Hazard	William E. Anderson	2008
Designing for Electrical Safety That Can Withstand Legal Scrutiny	Michael S. Morse	2009
Electrical “Life Cycle Safety”: The View from Design	Satish Parikh, Kaz Kolodziej, Jesse Rascan, Carmela Salas	2009
Use of Third Party Electrical Equipment and Materials	Al Havens	2010
Electrical System Design Techniques to Improve Electrical Safety	Dennis Hill, Bruce McClung	2010
Optimizing Circuit Breaker Instantaneous Trip Settings for Selectivity and Arc Flash Performance Simultaneously	Steve Hansen, Peter Sutherland, Marcelo E. Valdes	2010
Considerations in Unit Substation Design to Optimize Reliability and Electrical Workplace Safety	David B. Durocher	2010
Stray Current Analysis	Peter Sutherland	2011
ANSI Z590.3, Prevention through Design (Keynote Presentation)	Darryl Hill	2012

Topic

Title

Speakers

Year

Application Guidelines for Transformer Connection and Grounding for Distributed Generation: An Update

Eric Weisgerber, P.K. Sen, Keith Malmedal

2013

Reducing and Eliminating Electrical Hazards through Electrical Equipment Design Considerations

Dennis Doody

2013

Protective Devices for Preventing Electrical Fatalities and the Fatalities by Month in Japan

N. Ichikawa

2013

Design of Arc Flash Protection System Using Solid State Switch, Photo Detection, with Parallel Impedance

Sergio Paneta

2013

DC Arc Flash Mitigation Design at a Nuclear Research Facility

Walter P. Mendenhal

2014

Prevention Through Design: Reducing Risks Near Service and Main Disconnects

Daleep Mohla, Kevin Lippert, Craig Wellman

2014

Improving Safety with IEC 61850 Over Long Distance

Dennis J. Hill, David D. Brannon, Paul R. Ruhland, Joseph M. Werner

2014

Productively Safer Lock-out Tag-out Procedure with Permanent Electrical Safety Devices

Philip Allen

2014

Lighting Safety Considerations

Matthew Leong, Scott Seaver

2014

Safety by Design: Solid Insulated Technologies Challenge the Use of SF6 in Medium-Voltage Switchgear

David B. Durocher, Mario Haim, Lawrence T. Connor, Johan de Jong

2015

Topic

Title

Speakers

Year

Arc Flash Light Intensity Measurement System Design

Wei-Jen Lee, Zhenyuan Zhang, Tammy Gammon, Ben Johnson, James Beyreis, Shiuan-Hau Rau

2015

Arc Flash Mitigation Through The Use of an Engineered Parallel High Speed Semiconductor Fuse Assembly

Bradley Gradwell

2015

Applying Prevention Through Design to Voltage Testing

Rachel Bugaris

2016

Electrical Fatalities Reported by Federal OSHA for Calendar Year 2014 with a Consideration of Design Interventions

Gavin Burdge, Lanny Floyd

2016

MV Controllable Fuses Installed to Reduce Arc Flash on Transformer Secondary

Peter R. Walsh, Michael M Price

2016

Digital Functionality in Low Voltage Power Distribution

Thomas Papallo, Greg Morozzi

2017

Synchrophasor Technology: Powerful Tool That Increases Grid Reliability and Advances Electrical Safety

Tamara Becejac, Mladen Kezunovic

2017

Current Limiting Arc Flash Quenching System For Improved Incident Energy Reduction

Robert Burns, Dan Hrncir

2018

Using Spectrum of the Light for High Speed Arcing Fault Protection

L. Zhao, Y. Zhou, K. L. Chen, S. H. Rau, W. J. Lee

2018

Enhancing Worker and Equipment Protection Through Passive Arc-Fault Mitigation

Antony Parsons

2019

Topic

Title

Speakers

Year

Solid State Circuit Breakers—Their Technical, Operational and Application Benefits

Jay Prigmore, Doug Ehlers

2021

Electrical Safety Program

Electrical Safety Programs

Lanny Floyd

1996

Making OSHA a part of Your Electrical Safety Program

Ray Jones

1997

Establishing an Electrical Safety Program

Joe Andrews

2000

Implementing an Electrical Safety Program

Bruce McClung

2000

Developing an Electrical Safety Program

Steve Wilson, Ken Moses

2003

Implementing an Energized Permit Process

David Pace

2003

APES and the Evolutionary Ladder of Electrical Safety

Mike Doherty

2003

Examples of How a Variety of Companies Approach Electrical Safety Programs

John Cadick

2003

Topic

Title

Speakers

Year

Common Sense and Knowledge Approach to Electrical Safety

Bruce McClung

2004

Follow the Yellow Brick Road

Butch Collins, Joe Rachford

2005

Holistic Approach to Electrical safety

Danny Liggett

2005

Electrical Safety Program Validation

John Cadick, Al Winfield, Steve Simmons

2005

Deploying NFPA70E in a Semiconductor Facility

Edward Guild

2005

Complying with OSHA Regulations for Electrical Safety

Ken Mastrullo

2005

Applying NFPA70E to Electrical Utility Operations

Doug Mills, Richard Mesker

2006

Grubs not Moles in Electrical safety

Mike Doherty

2006

Integrating a State of the Art Electrical safety Program into Your Company's Business Objectives

Lanny Floyd, John Aeiker, Danny Liggett, Paul Sullivan

2006

An Electrical Safety Program for a Pipeline Company

Art Neubauer

2006

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Title	Speakers	Year
Hurricane Katrina Damage Recovery – Case Study in Managing Electrical Safety During Disaster Recovery	Edward Thornton	2007
Implementation of NFPA 70E in a Large Industrial Facility: Lessons Learned	David Mills, John McAlhaney, Jr., Glyn Luke	2007
Enhancing Electrical Safe Work Practices by Implementing an Electrical Safety Program	Terry Becker, Kerry Wycislik,	2007
Integrating Arc Flash Hazard Analysis into Comprehensive Electrical Safety Programs	John J. Kolak	2008
High Voltage Program with Multi-Craft Workforce	Joe Rachford	2009
Keynote: An Electrical Safety Program for Employees	Bruce McClung	2009
Electrical Safety – On and Off the Job	Brett Brenner, Christopher Lindsey	2009
Corporate Electrical Safety: Balancing the Risk	Kerry A. Wycislik, Jared Robertson	2010
D3—Due Diligence Documentation for Electrical Supervisors	Mike Doherty, Andy Kerr	2011
Lessons Learned from the Development of a Global Electrical Safety Program	Mark Scott, Andrew Segers	2012

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Year

An Effective Electrical Safety Program—What Are You Missing?

Terry Becker, Ray Crow

2012

Integrating the Non-Electrical Worker into the Electrical Safety Program

David Mills, John McAlhane

2013

Incorporating a “Live Work Policy” into Your Electrical Safety Program

Kenneth Mastrullo

2014

What Is the Quality of Your Contractor's Qualified Electrical Workers?

Robert Loveless, Michael Moore

2014

Electrical Safety in South Africa

J.P. Malatse

2014

Hazard or Risk Analysis, Overcoming the Human Factor

Robert S LeRoy

2015

The Challenges to Achieve and Maintain a Safe Electrical Workplace

Steve Leblanc, Pierre Normand

2015

Bridging the Gap: Using Technology to Capture the Old and Encourage the New

Joe Barrios, Katie Scarlett Reyes

2015

Electrical Safety—A Program Development Guide

Terry Becker, Chris Davis

2015

Safety Procedures for Electrical Work in Installations Susceptible to Unexpected Sources of Energy

Giuseppe Parise, Luigi Parise, Massimo Mitolo

2015

Topic

Title

Speakers

Year

Enhancing Electrical Safety Without Touching a Tool	Robert S. LeRoy	2016
Electrical Safety Work Control Process and ISM	Robert J Spang	2016
Electrical Hazard Prevention Program at a Water and Wastewater Utility	Diosdado V. Hernandez, Robert Mac	2016
Electrical Safety for Industrial and Commercial Power Systems	Dennis Neitzel	2016
The Electrical Safety Situation in Mexico	Camilo Martinez, Ruben Corvalan	2017
Equipment Control Processes Used for Electrical Safe Work Practice Compliance	Robert S. LeRoy, Jeffrey Grovom	2017
From the "Ground" Up Improving Electrical Safety for the Electrical Worker	Jason Cole	2017
Uncovering the Indicators that Lead to Disaster	Robert LeRoy	2018
Advancing Electrical Safety Programs with the Introduction of Authorized Persons	Arunkumar Aravamudhan, Robert Wagner, Raymund Torres, Edward Bolton, D. Ray Crow	2018
Refining Electrical Safety: From Paper to Practice	Jeremy Presnal, Greg Maberry	2019

Topic

Title

Speakers

Year

The Electrical Safety Program and the Value in Partnering with Health & Safety Professionals

Jeremy Presnal, Herb Houston, Greg Maberry

2020

Hidden Danger: Reducing Residual Risk in Your Electrical Safety Program

H. Landis Floyd

2022

One Company's Best Practices to Consider When Creating and Streamlining a Company Electrical Safety Standard

Christopher J. Watson, Duane R. Boswell, Ed Boyer

2022

A Deeper Dive into Leading / Lagging Indicators for Electrical Safety Is Required

Mike Doherty

2023

Electrical Safety Leading Indicators

Sonny D. Dela

2024

Electrical Safety from Reactive (Tragedy) to Proactive (Innovation)

Anita Tarab

2024

Emergency Response

Emergency Response to Electrical Injuries

Kim Eastwood

2000

Emergency Response, Emergency Drills, and Electrical Safety

John Aeiker

2008

A Primer on Emergency Response for Electrical Safety Professionals

John Aeiker

2009

Topic

Title

Speakers

Year

Electrical Injury Drills: Approaches, Learnings, and Best Practices

Christa A. Swafford, Daniel R. Doan, Michael Nagl, Paul B. Sullivan

2017

What Do You Do When the Lights Go Out?

Greg Drewiske, Austin Kalcec

2017

Full Scale Substation Arc Flash Incident Drill (Rev 01/2020)

Brian Prokuda, William R. Harris

2020

Forensics/Investigations

Accident Investigation

Michael Foley

1996

Root Cause Failure Analysis

Lynn Roach

1997

Improving Electrical Safety through Forensic Analysis of Failure

Michael Morse

2010

Investigating Electrical Accidents—The Art of Forensic Investigation

Michael Morse

2012

Case Study of the Failure of Two 13.8 kV Control & Metering Transformers That Caused Significant Equipment Damage

Gary Dreifuerst, P. E. Dennis Chew, P. E. Harry Mangonon, P. E. Paul Swyers

2012

The Development of Questions to Determine the Effectiveness of the Incident Investigation Process for Electrical Incidents

Zarheer Jooma, Jessica Hutchings, Hugh Hoagland

2015

Topic

Title

Speakers

Year

Investigation of a Near Miss Shock Incident	Dan Doan	2015
Statistical Accident Analysis and Electrical Fatality Rate in Japan, 2002–2011—Causes and Preventive Measures of Fatal Electrical Accidents	Norimitsu Ichikawa	2015
Employee Contacts 2400V—What We Learned from the Event	Robert Huddleston	2016
Investigations of Near Miss Incidents—New Facility Construction and Commissioning Activities	Josh D. Popp, Mark S. Scarborough	2016
Three Hundred Forty-Nine Case Studies and Their Consideration of Electrical Accidents in Japan	Norimitsu Ichikawa	2016
The Analysis of an Incident Investigation System	Zarheer Jooma, Jessica Hutchings, Ian R Jandrell, Hugh Hoagland	2016
Electrical Shock and Arc Flash Events: Understanding Factors and Identifying Trends	David Dini, Richard Campbell, Paul Brazis Jr.	2016
When Establishing an Electrical Safety Work Condition Wasn't Enough	Al Havens	2017
Worker Discharges Capacitive Build-Up on Deenergized 13.8 kV Line	Wes Mozley	2017
From Planned to Unplanned Shutdown	Raymund J. Torres, Brian Boggan	2017

Topic

Title

Speakers

Year

Electrical Fault During Battery Replacement Results in Burn Injuries

Shahid Jamil

2017

A Method to Measure the Application of the Incident Investigation Process for Electrical Incidents

Zarheer Joom, Jessica Hutchings, Hugh Hoagland, Ian R. Jandrell

2017

Electrical Investigations: Case Studies, Common Electrical Safety Mistakes, and Lessons Learned

Jay Prigmore, Justin Bishop, John Martens

2018

An Innovative Method to Enable Electrical Incident Analysis

Ulrich Klapper, Nicole Burtscher

2020

Electric Shock Incident Investigation Utilizing In-Depth Electric Exposure Reconstruction Techniques

Paul W. Brazis, Leslie Peterson, Hai Jiang

2024

Role Specific Approaches for Incident Investigation

Zarheer Jooma, Jay Prigmore

2024

Grounding/Bonding

Grounding Systems vs Grounding Equipment

Al Havens

2003

Grounding Systems vs Grounding Equipment

Al Havens

2003

System Grounding, Ground Fault Protection and Electrical Safety

John Nelson, P.K. Sen

2007

Topic

Title

Speakers

Year

System Grounding, Ground Fault Protection and Electrical Safety

John Nelson, P.K. Sen

2007

Protective Grounding Myths & Facts

W P Blackley

2010

Transferred Potential—A Hidden Killer of Many Linemen

K. Suresh, S. Paranthaman

2014

Interferences Between Grounding Systems in Urban and Industrial Areas

Giuseppe Parise, Luigi Parise, Luigi Martirano

2015

Myths of Equipment Grounding and Bonding

Elliot Rappaport

2016

The Practice and Effectiveness of Equipotential Zone “EPZ” Grounding—Safety Reality or Pipe Dream?

George T. Cole

2022

An Effective Means of Tracking Temporary Safety Grounds

Greg Drewiske

2022

Addressing Misconceptions to Reduce Touch and Step Voltage Hazards at Power Systems

David Lewis

2022

Equipotential Zone Grounding and Bonding at 4.16-/13.8-kV Switchgear and Loads Why's / Challenges / How's?

Mike Doherty, David Wallis

2024

Grounding and Bonding of Separately Derived Outdoor Transformers Feeding a Building

Mario Orellana, Joseph Mercede

2024

Topic

Title

Speakers

Year

Hazard - Arc Flash & Blast

Flash Hazard Analysis & Methodology of Calculations

Danny Halliburton

1996

Staged Tests Increase Awareness of Arc Flash Hazards in Electrical Equipment

Bruce McClung, Lynn Saunders

1997

Staged Tests Increase Awareness

Terry Macalady, Vince Saporita

1998

Estimating Incident Energy

Dick Doughty

2000

Techniques to Aid Application of NFPA 70E Arc Flash Hazard Analysis

Craig Wellman

2001

Techniques to Aid Application of NFPA 70E Arc Flash Hazard Analysis

Craig Wellman

2002

Topics on Electric Arc Flash Hazards

D. Ray Crow

2002

The Emergence of Arc Flash as a Unique Hazard

Tom Neal

2003

Non-Contact Electric Arc Induced Injuries in the Mining Industry – A Multidisciplinary Approach

Kathleen Kowalski-Trakofler

2004

Topic

Title

Speakers

Year

Arc Faults in Medium Voltage Switchgear

Jim Bowen

2004

Understanding Arc Flash Hazards

Kevin Lippert

2004

Arc Flash Hazard Calculations – Why? How?
What's Next?

Craig Wellman, Dan Doan, Louis Barrios

2004

Update IEEE 1584

Craig Wellman

2005

Comparison of Incident Energy Prediction
Methods

W. Blackley, S. Cox, N. Van Geem

2005

Problem Cases to Look for When Doing Arc
Flash Hazard Assessments

Dan Doan

2006

NFPA & IEEE Collaboration on Arc Flash
Phenomena

Sue Vogel, Ben Johnson

2007

An Evaluation of Alternate Test Configurations
for Future Arc Flash Models

Mike Lang, Ken Jones

2007

Arc Flash Calculations for Exposures to DC
Systems

Daniel Doan

2007

Bounding Study for Arc Flash

Michelle Murphy

2008

Topic

Title

Speakers

Year

Update on NFPA/IEEE Collaboration on Arc Flash Research and Testing

Ben Johnson, Sue Vogel

2008

Electrical Equipment Performance and the Impact to Personnel – An Arc Flash Exposure Dilemma

Kerry Heid, Ron Widup

2008

The Limitations of Metal-Clad Enclosures to Protect Electrical Workers from Arc-Blast Hazards

John J. Kolak

2009

Selective Coordination versus Arc Flash – The Great Debate and Update

Thomas A. Domitrovich, Aidan M. Graham, Charles J. Nochumson

2009

Arc Flash Hazard Study – A Challenge for Engineers

Pirooz Barkhordar

2009

Field Measured Total Clearing Time of Protective Devices and Its Effect on Electrical Hazards

Kerry Heid, Ron Widup

2009

Update on NFPA/IEEE Collaboration on Arc Flash Research and Testing

Ben Johnson, Sue Vogel

2009

Major Arc Flash Fault + Good Practices = No Injuries

Joe Rachford

2010

Impact of Arc Flash Events with Outward Convective Flows on Worker Protection Strategies

Mike Lang, Ken Jones, Tom Neal

2010

Arc Flash Testing of Typical 480-V Utility Equipment

Marcia Eblen, Tom Short

2010

Topic

Title

Speakers

Year

The Science of Arcs and Arc Flash

Lloyd Gordon

2011

Update on IEEE/NFPA Joint Research Project on Arc hazards

Wei Jen Lee

2011

The Impact of Fuse Link Manufacturers on Arc Flash Energy

Fábio Correa Leite, Jose Aquiles B. Grimoni, Fábio Mendes Malheiro, Luiz Kazunori Tomiyoshi

2011

Arc Flash Hazard Assessment in the Mining Industry

Matthew R. Hopper, Nathan C. Wright, Christopher B. Ivany

2011

A European View of Arc Flash Hazards and Electrical Safety

Jim Phillips, Mike Frain

2012

DC Arc Flash Calculations — Arc-in-Open-Air & Arc-in-a-Box — Using a Simplified Approach (Multiplication Factor Method)

Michael D. Fontaine, Peter Walsh

2012

IEEE and NFPA Arc Flash Coalition Update

Ben Johnson

2013

Protecting Your Staff from Arcing Hazards

David Sweeting

2013

An Investigation of Low Voltage Arc Flash Exposure

A. Smoak, C. Gray, A. Keeth, T. Russell

2013

Arc Flash Study and Remediation Project in a Pulp and Paper Mill

Greg Drewiske

2013

Topic

Title

Speakers

Year

Arc Flash Calculations for a 1.3 MW Photovoltaic System

Daniel R. Doan, Richard M. Derer

2014

DC Arc Flash Hazards in Photovoltaic Systems, Incident Energy Calculations and Methods for Protection

Dr. Branislav Radibratovic

2014

Arc Flash Mitigation using Active, High Speed Switching

Michael D. Divinnie, James K. Stacy, Antony C. Parsons

2014

Exposed to the Arc Flash Hazard

Mike Lang, Ken Jones

2014

The Effect of Using Minimum and Maximum Utility Fault Contributions on Arc Flash Study Results—A Case Study

Jean Y. Ayoub, Marcelo Valdes

2015

“Arc Flash” Hazards, Incident Energy, PPE Ratings and Thermal Burn Injury—A Deeper Look

Tammy Gammon, Wei-Jen Lee, Zhenyuan Zhang, Ben Johnson

2015

Measurements, Observations and Implications of Moving Electrical Arc Behavior and Effect of Reclosure Events on Overhead Lines

Hugh Hoagland, Claude Maurice, Mikhail Golovkov, Ken Sellars, Stacy Klausing

2015

Lessons Learned from an Arc Flash Incident

Scott J Carroll

2015

DC Arc Flash Studies for Solar Photovoltaic Systems, Challenges and Recommendations

Kathryn Klement

2015

Medium-Voltage Arc Flash Testing of Switchgear and Live-Front Transformers

Marcia Eblen, Tom Short, Wei-Jen Lee

2016

Topic

Title

Speakers

Year

Novel Approach to Arc Flash Mitigation for Low Voltage Equipment	Ray Catlett, Mike Lang, Steve Scala	2016
Arc Flash Pressure Measurement by Physical Method, Effect of Metal Vapor on Arc Blast	Hugh Hoagland, Claude Maurice, Andrew Haines, Andre Maurice	2016
Arc-Flash Detection Prevents Catastrophic Damage	Bob Hughes	2016
Effect of Arc Electrode Geometry and Distance on FR Fabric Protection Properties Against Second Degree Skin Burn	Mikhail Golovkov, Holger Schau, Ing Habil	2016
Arc Flash Pressure Measurement System Design	Wei-Jen Lee, Zhenyuan Zhang, Rau, Shiuan-Hau, Tammy Gammon, Ben Johnson, Mike Lang	2016
Current-Limiting Fuses: Proposed NFPA 70 -2017 240.67, Arc Modeling and an Assessment based on IEEE 1584-2002	Tammy Gammon, Vince Saporita	2016
Arc Flash\Blast, Safe by Design a Safety Integrity Level Approach (SIL)	Brad Gradwell	2017
An Improved Arc Flash Energy Calculation Method, and Application	Afshin Majd, Robert Luo	2017
Low-Voltage Arc Sustainability	Marcia L Eblen, Tom A. Short	2017
Arc Flash Visible Light Intensity as Viewed from Human Eyes	Shiuan-Hau Rau, Zhenyuan Zhang, Wei-Jen Lee, David A. Dini	2017

Topic

Title

Speakers

Year

Arc Length vs. Electrode Gap for Underground Cable Arc Flash Hazard Analysis

Kenneth Cheng, Stephen Cress, Jack Craighead

2017

Hazard Calculation for 208V, 3 Phase Systems

Audrey Lowther, Syed Rizvi

2017

A Graphical Approach to Incident Energy Analysis

Rick Lutz, Max Charbonneau, Michael Garcia

2017

The Review and Summarizing of Social Media Comments and Discussions from Electrical Workers about Electrical Arc-Flash Safety

Russ Safreed, Charlie McClung

2017

Incident Energy Calculation Techniques for Bus Tie and Main Breaker Cubicles

Michael M. Price, Aster K. Amahatsionted

2017

Arc Flash Study in Large Scale Industrial Plant with Internal Generation and Complex Interconnected Network

Farshid Salehi, Mandhir Sahni, Wei-Jen Lee

2017

3D Modeling of Ac Electric Arc on 60 Hz and 400Hz

Iragaba Intwari, Wei-Jen Lee

2017

Clearing Time Considerations for DC Arc Flash Hazard Analysis of Battery Banks

Kyle Carr

2018

Calculating the Arc Flash Incident Energy in Single-Phase Systems Using a Three-Phase Model

Afshin Majd, Robert Luo, Marvin Devadass

2018

An Enhanced Method of Incident Energy Measurement

Joe Potvin, Tom Short

2018

Topic

Title	Speakers	Year
Evaluating the Incident Energy of Arcs In Photovoltaic DC Systems: Comparison Between Calculated and Experimental Data	William Sekulic	2019
Arc Flash Pressure Door Ejection Measurement	Hugh Hoagland, Claude Maurice, Andrew Haines, André Maurice	2019
Strong Arc Flash Prevention / Mitigation Philosophy – A Specific EU Site Example	Mark Scarborough	2019
Arcing Fault Type Identification with Light Spectrum	Long Zhao, Yuhao Zhou, Ting-Yen Hsieh, Wei-Jen Lee	2019
High Voltage Arc Flash Assessment and Applications	Albert Marroquin, Abdur Rehman, Ali Madani	2019
Evaluation of Methods for Applying IEEE1584 -2018 Equations for Low Voltage Current Limiting Fuses	Mike Lang, Albert Marroquin, Vince J. Saporita	2020
Considerations for Adapting IEEE 1584-2002 Arc Flash Study Results to a Post IEEE 1584 -2018 Risk Assessment	Marcelo E. Valdes, H. Landis Floyd	2020
Arc Flash Incident Energy Analysis—Renewal Recommendations	Paul Sullivan, Dan Doan, Ken Jones	2020
DC Arc-Flash Testing and Analysis at 600 V	Kenneth S.Y. Cheng, Caesar Samson, Stephen Cress	2020
Understanding the Effect of Electrode Configuration on Incident Energy and Arc-Flash Boundary	Adam Reeves, Mark Freyenberger, Michael Hodder	2020

Topic

Title	Speakers	Year
Methods for Evaluating DC Arc Incident Energy in PV Systems	William Sekulic, Albert Marroquin, Peter McNutt	2021
Equivalent Formulas for Determining Incident Heat Energy for Various Fault Currents and Clearing Times used in NESC and OSHA	Marcia L Eblen, Tom Short, Zarheer Jooma	2021
Arc-Flash PPE—A Simplified Constant Energy Line Table Method	Rémi Hallé, Kirk Gray, Daniel Roberts, Marcelo Valdes	2021
Comparison of IEEE 1584-2018 Predictions with Tests on Real-World Equipment	Tom A. Short, Marcia L. Eblen	2021
Normal Operating Condition Examined	Al Havens	2022
Analysis of NFPA 70E, Table 130(C)(15)(A) Using IEEE 1584-2018 Constant Energy Boundaries	Marcelo E. Valdes, Paul B. Sullivan, Remi Halle	2022
Sensitivity Analysis of EPRI Overhead HV Line Arc Flash Model	Marvin Antony Devadass	2022
A Detailed Approach for Arc Flash Sustainability for Systems at or Below 240V and Over 2000A	Kyle D. Carr, Zarheer Jooma, John J. Whipple	2022
Methods for Evaluating DC Arc Flash IE in Battery Energy Storage Systems	Albert Marroquin, Terry McKinch	2023
Sustainability of an Electric Arc Flash at a Voltage of 240 Vac and 150 Vdc	Kirk Gray, Simon Robert , Rémi Hallé	2023

Topic

Title

Speakers

Year

Arc Rating Variability and Repeatability: Why Does Fabric Arc Rating Vary and Which Value Is Correct?

Aasim Atiq, Eduardo Ramirez-Bettoni, Brian Shiels, Claude Maurice, Hugh Hoagland

2023

Doors Wide Open: Safety Beyond the Standards

John Kay, Juha Arvola, Mikko Manninen

2023

347/600 Volt Arc Flash Mitigation at British Columbia Hydro

Anthony Gamage, Scot Jackson, Paul Therrien

2023

Modeling DC Arc Physics and Applications for DC Arc Flash Risk Assessment

Lloyd Gordon

2023

Surprising Ratings of Arc-Rated Clothing Obtained from a Major Online Vendor

Tom Short, Marcia Eblen

2023

Arc-Resistant Equipment—A Risk Control Perspective

Marcelo Valdes, Harsh Karandikar, Michael Lafond, John Webb

2023

How Variability in Arc Ratings is Stifling Innovation in Development of Arc Rated Clothing

Aasim Atiq, James Cliver

2024

Modeling the Conversion of Electrical Energy to Acoustic Energy for Arcs and Applications for the Selection of PPE

Lloyd B. Gordon, Joseph Bradley

2024

Modifying the DC arc-flash Max Power Forumula to Give More Realistic Predictions of Maximum arc-flash Energy

Curtis Ashton

2024

Application of DC AF Incident Energy Reference Boundary Area Plots in TCCs Considering Input Parameter Variability

Albert Marroquin, Raghu Veeraraghavan, Walter Gonzalez, Marcin Ruta

2024

Topic

Title

Speakers

Year

Arc Flash Risk Assessment: Experiences from Projects in EU

Marcin Ruta

2024

Arc Flash Analysis for Antarctica Research Facilities

Elizabeth Hames, Raymond Gonell, Alex Radulescu, Xuanchang Ran

2024

NFPA 70E Proposed DC Arc Flash Updated Guidance

William Cantor, Lloyd Gordon, Sai Marri

2024

Arc Flash in Single Phase Power Distribution

John F. Wade, Terry W. Becker

2024

Utility Contribution to Arc Flash Studies

Tracy Roberts, Drew Thomas

2024

Three-Part Presentation: Breaking the Sequence; Safety with Microgrids; Arc-Flash Incident Energy Calculation for Tie Circuits

Dennis Hill, Dan Doan, Paul Sullivan

2024

Hazard - Electric Shock

The Electrical Hazard of the Future

Don Zipse

2009

Electric Shock Injuries from Static Electricity Discharges

Lanny Floyd

2011

The Misuse of Voltage as a Parameter of Concern for Electrical Hazard

Don Zipse

2011

Topic

Title	Speakers	Year
Latent Potential Differences Between Exposed Conductive Parts Under Ground Fault Conditions in Low Voltage Systems	Massimo Mitolo, Fabio Freschi, Haijun Liu, Michele Tartaglia	2013
Ground Fault Protection – GFCI or GFPE – There is a Difference	Dennis Neitzel, T. Gauthier	2013
Electrical Safety and Electric Welders	Al Havens	2014
Touch Voltage Analysis in Low-Voltage Power Systems Studies	Massimo Mitolo, Haijun Liu	2015
Working Safely with Hazardous Capacitors	Mark Scott	2018
Exploration of the Theory of Electric Shock Drowning	Jesse Alena Kotsch, Brandon Prussak, Michael Morse, James Kohl	2018
Neutral Conductors, the Un-identified Hazard	Michael King, Juan Pena	2019
Examining the Risk of Electric Shock Drowning (ESD) as a Function of Water Conductivity	Michael Morse, Jesse Kotsch, Brandon Prussak, James Kohl	2019
Lighting Jobs: Easy Work or Easy Death	Michael Kovacic, Karl Cunningham	2020
Nikola Tesla's Approach and Methods to Electrical Safety	Chris Varaljaj	2020

Topic

Title

Speakers

Year

Temporary Test Equipment, Risk of Not Maintaining an Electrically Safe Work Condition

Michael King, Juan Pena

2021

AC Induction Conductive Suit—A New Way of Protecting Linemen in the Vicinity of Energized Parts

Eduardo Ramirez-Bettoni, Balint Nemeth

2022

Electric Shock Hazards Beyond 50/60 Hz and DC

Lloyd B. Gordon, Jesse Liechty, Joseph Bradley, Lee Merrill, Henry Gauss

2022

Electrical Shock Sequela

Terry Becker, John Knoll

2022

Lightning Fatalities Reduction Effort in Africa

Dan Doan

2022

Why Can't a Person Use a Proximity Sensor to Verify a Zero Voltage State for Low Voltage Systems?

Joe Rachford

2023

Is Absence of Voltage “Live-Dead-Live” Testing According to NFPA 70E Adequate?

George T. Cole

2023

Are We Safe from Lightning Inside Buildings? — A Study of Lightning Fatalities Inside Buildings Using Smartphones

Danilo Ferreira De Souza, Milton Shigihara, Hélio Eiji Sueta

2024

Hazard - Other

The Basics of Electrical Hazards

Danny Liggett

2003

Topic

Title

Speakers

Year

Relocatable Power Strips – Concerns, Issues and OSHA Requirements

Daleep Mohla

2003

Electrical Safety in Unique Environments

Robert Downey

2003

Over Head Line Hazards

D. Ray Crow

2005

Hazards of Electricity – Do You Know What They Are?

Dennis Neitzel

2006

Lighting System Safety Issues

Ric Barton

2006

A Complete Electrical Hazard Classification System and Its Application

Lloyd B. Gordon, Laura Cartelli

2009

Battery Installation and Safe Work Practices

Daleep Mohla

2010

The Importance of Alerting Techniques

D. Ray Crow

2010

Estimating Fire Losses Associated with Circuit Breaker Malfunction

Jesse Aronstein, Richard Lowry

2011

Objectionable Currents Associated with Shock, Fire and Destruction of Equipment

David R. Carpenter, John Willingham

2015

Topic

Title

Speakers

Year

The Link Between the Arc Flash Phenomenon, Emerging Plasma Sciences and Exotic Energy Technologies

Michelle Murphy, Stephen Goulet

2015

Hazards in the Installation and Maintenance of Solar Panels

Jim White, Mike Doherty

2017

Sometimes Overlooked Safety Concerns with Large Engineered ASD Systems

Arthur Smith, Dan Doan

2017

Electrical Safety in Process & Packaging Machinery

Sonny D. Dela

2017

Modeling, Simulation and Testing of Surge Transients in Railway DC Power Systems

Maxime Berger, Carl Lavertu, Jean-Pierre Magalhaes, Daniele Ferrara, Ilhan Kocar, Jean Mahseredjian

2017

Enhancing Electric Safety by Improving System Resiliency in Face of Extreme Emergencies

Pooria Dehghanian, Semih Aslan

2017

Hazards and Safety When Working in Confined or Enclosed Workspaces

Dennis Neitzel, Alfonso Jo

2018

Electric Vehicle Charging Safety – The State of Art, Best Practices, and Regulatory Aspects

Vesa Linja-Aho

2024

Hazard Analysis and Risk Assessment

Electrical Hazard Analysis from a PSM Perspective

John Aeiker

2014

Topic

Title

Speakers

Year

Integrating OHSMS, Risk Management & Electrical Safety

Daniel Roberts

2014

Meeting the Electrical Safety Challenges

Dennis K. Neitzel, Timothy L. Gauthier

2014

A Complete Electrical Arc Hazard Classification System and Its Application

Lloyd B. Gordon, Nicole Graham

2015

Risk Assessment and Your Electrical Safety Program

Daniel Roberts

2015

A Practical Guide for Applying the Hierarchy of Controls to Electrical Hazards

Lanny Floyd

2015

Field Level Hazard Assessment/Field Level Risk Assessment→Energized Electrical Job Risk Assessment

Terry Becker

2015

The Hazards of Risk Assessment

David Wallis

2016

A Misunderstanding We Should Eliminate

Lanny Floyd

2016

Risk Perception and Decision Making in Hazard Analysis: Improving Safety for the Next Generation of Electrical Workers

Allison Haluik

2016

Bringing Attention to Residual Risk: Psychology of Warnings, Administrative Controls and PPE

Anna Floyd, Lanny Floyd

2017

Topic

Title

Speakers

Year

Performing Risk Assessments for Shock and Arc Flash Hazards for all Forms of Electricity

Lloyd Gordon

2017

Solar Photovoltaic DC Array Characteristics and Safety

Peter McNutt, Bill Sekulic, Gary Dreifuerst

2018

A Complete Electrical Risk Assessment Method for All Electrical Hazards and Its Application

Lloyd Gordon, Tommy Martinez

2018

Risk Assessment Myth Busters

Daniel Roberts, L. René Graves

2018

Implementing Improvements in Hazard Identification and Barrier Implementation as a Corrective Action for a Serious Electrical

Scot Jackson

2019

Drawing the Line—Where Does Troubleshooting End and Working on Begin?

Wes Mozley

2019

Expanding Workplace Electrical Safety to Non-Electrical Occupations

Brett Brenner, Daniel Majano

2020

Troubleshooting: The "Acceptable" Energized Work

Karl M Cunningham ,Michael Kovacic

2021

Risk Assessment for the Home Office

Eric Campbell

2022

Assessing the Electrical Risks in Electric Vehicle Repair

Vesa Linja-aho

2022

Topic

Title

Speakers

Year

Advancing the Risk Assessment for Structures Protection Against Lightning

Giuseppe Parise, Marco Allegri, Luigi Parise

2022

Reducing Risk When Performing Energized Work on Batteries

David Rosewater

2023

Electrical Equipment Task Based Risk Assessment – Using the HRN Method

Mark S. Scarborough

2024

The Challenges of Troubleshooting

David. E Mertz

2024

The Likelihood of an Unlikely Incident

H. Landis Floyd

2024

Human Factors Engineering

Electrical Safety Related Behaviors

Bill Jordan, Danny Liggett

1999

Human Error in Electrical Safety Exposure

Lanny Floyd

2000

Techniques to Aid Recognizing the Electrically Safe Working Boundary

Lynn Saunders, Lanny Floyd

2001

Test Before Touch

Lanny Floyd

2002

Topic

Title

Speakers

Year

Electrical Safety and Human Performance Interface

Mike Doherty

2004

Human Factors in Electrical Safety

Shahid Jamil

2006

Situational Awareness and Electrical Safety

Stephen Wilson, Jim Nottrodt

2009

Case History: Lookalike Equipment – Could This Cause an Accident in Your Facility?

D. Ray Crow

2010

Multitasking and the Illusion of Safety

Anna Floyd

2010

Why Electricians and OSH Workers Take Risks by Working Live and What You Can Do About It

Gavin Howe

2011

Improving Human Performance

Danny Liggett, D. Ray Crow

2012

Putting a Face on Safety: Changing Attitudes to Promote a Climate of Safety

Kyla Kruse

2013

Enhancing Safety by Reducing Errors - A Fresh Approach

Tim Autrey

2014

The Human Element of Electrical Incidents

Kenneth A. L'Esperance

2014

Topic

Title

Speakers

Year

Improving Electrical Safety and Awareness using Human Operational Performance Techniques

Graham Harvey

2014

Good Communications—The Essence of Safety

John Cadick, Al Winfield

2015

It Looked the Same to Me

Joe Rachford, Benjy Towles

2016

How Poor Communication Led to a Near-Fatal Accident

Jim White

2016

Human Performance—Addressing the Human Element in Electrical Safety

Daniel Roberts, Mike Doherty, Lee Lane

2016

Convincing the Craftsman—A Study of What Works and What Doesn't with Respect to Educating the Electrical Worker About Electrical Safety

Wes Mozley

2018

Improving Safety Culture Among Non-Electrical Workers

Nehad El-Sherif, Juan Lahera

2018

Embracing the Generational Differences to "Bridge the Gap" in the Workplace

Jennifer L. Martin, Owen Peters

2019

Human Performance Best Practices in the Electrical Workplace

Olugbemi Aroke, Mike Doherty, Behzad Esmaeili

2019

Open Your Mind to Become an Effective Safety Leader

Frank Foote, Eric Campbell

2019

Topic

Title

Speakers

Year

Human Performance, Error Precursors and the Tool Kit

Robert J. Spang, Nichole D. Spang

2020

Human Performance in Workplace Electrical Safety

Nehad El-Sherif, Mike Doherty

2022

Human Performance: How Enhancing Safety Is Managed

Joshua Hodges

2022

Why Do Electrical Fatalities Occur on the Job? Understanding the Human Factor of a Fatality

Daniel Majano, Brett Brenner

2023

Normalization of Deviance: Why Accidents Are Not Always Accidental

Stephen Hester

2023

Inherently Safer Technology

Inherently Safer Technology

Lanny Floyd

2003

GFCIs – 30 Years and Counting

Jack Wells

2003

Window Disconnect Application

Dave Durocher

2003

Zero-Tolerance Methodology & Solution for Safe Electrical Shutdowns

Normand Brien

2003

Topic

Title

Speakers

Year

Product and Systems Safety Engineering – The Next Frontier in Electrical Safety

Lanny Floyd

2004

Arc-Free LV MCC, Better to Prevent than Cure

Roel Ritsma

2005

Protection Strategies to Reduce the Arc Flash Hazard from Low- Voltage Power Systems

Paul Hammer, Marcelo Valdes

2005

De-Mystifying Arc Resistant Switchgear

Paul Sullivan, Michael Wactor

2006

Practical Considerations When Applying Arc Resistant Equipment

Michael Frayne

2007

Advancements in Technology Create Safer & Smarter HRG Systems

Tony Locker, Mark Scarborough

2009

New Rules for Ground Fault Circuit Interrupters

Steve Antman, Roger Nolter, Danny Liggett

2011

Arc Flash Reduction System Application Considerations

Ed Larsen

2011

Implementation of an Arc Flash Reduction Maintenance Switch – A Case Study

Thomas Domitrovich, Ken White

2012

Combination AFCIs: What They Will and Will Not Do

Joseph Engel

2012

Topic

Title

Speakers

Year

AFCIs—From a Standards Perspective

Kevin Lippert, Thomas Domitrovich

2013

Surface Leakage Protection—Next Generation of Electrocution Protection Technology

Wei Wu, Yuejia Wu

2014

Applying New 480V GFCI Standard in an Industrial Facility

Nehad El-Sherif, Tony Locker, Leland Mecham

2014

Enhanced Safety Features in Motor Control Centers and Drives for Diagnostics and Troubleshooting

Larry R. Olsen, John A. Kay, Martin Van Krey

2015

Leveraging Prevention Through Design Principles (PtD) in Electrical Installations

H. Landis Floyd, Marcelo Valdes

2020

Prevention Through Design, Strategies to Reduce the Hazards of Stationary Battery Systems Through Intelligent Design

Michael P. O'Brien, John R. Todora

2021

Demystification of Arc-Fault Circuit-Interrupters (AFCIs)—Part II: Technology and Applications

Nehad El-Sherif, Thomas Domitrovich

2023

Injury Research/Treatment

Electrical Injuries Research

Lanny Floyd

1996

Changing the Electrical Safety Culture - Electrical Arc Flash Burn Research

Mary Capelli-Schellpfeffer

1997

Topic

Title

Speakers

Year

Electrical Injury Medical Research	Mary Capelli-Schellpfeffer	1998
Incident Fax Back Report	Mary Capelli-Schellpfeffer	1998
The After Affects of Electrical Injuries	Mary Capelli-Schellpfeffer	1999
Incident Data Gathering - Fax Anonymous Reporting (FAR) Project Update / Case Histories	Dr. Mary Capelli-Schellpfeffer, Danny Liggett	2000
Electrical Injury Medical Research	Dr. Mary Capelli-Schellpfeffer	2000
It's Not Over When It's Over -- The Hidden Cost of Incidents and Accidents	Ron Hayes, Dr. Mary Capelli-Schellpfeffer	2002
Working on 277 Volt Lighting Systems – Why So Many Fatalities?	Dr. Mary Capelli-Schellpfeffer	2003
Advancements in Understanding and Treating Electrical Injury	Raphael Lee, MD	2003
Electrical Safety Facts – What We Don't Know	Lanny Floyd, Danny Liggett, Dr. Mary Capelli- Schellpfeffer, Gerald Homce	2004
Human Current Sensitivities and Resistance Values in Presence of Electrical Energized Objects	Peter Sutherland	2005

Topic

Title

Speakers

Year

Electrical Incidents Management

Dr. Alain Sotto

2007

Electrical Injury Support Activities

Brian Tink

2007

Keynote: How Much Damage Can a Low Voltage Shock Do? – Traditional Theory, Modern Theory, and Pervasive Myths

Michael S. Morse

2008

50 Volt Shock Hazard level

Daniel Roberts

2008

Japanese Trends in Fatal Accidents Caused by Electric Shocks and the Prevention of the Accidents

Norimitsu Ichikawa

2012

Occupational Electrical Injuries in the US, 2003-2009

James Crawley, Brett Brenner

2012

OSHA Arc-Flash Injury Data Analysis

Craig Wellman

2012

Report on the Current State and Understanding of Human Response to Electrical Contacts

Michael Morse

2013

Hearing Protection—The Electrical Hazard You Don't "Hear" About!

Kevin Lippert, Amanda M. Lippert

2015

Reframing Our View of "Electrical" Injuries in the Workplace

Tammy Gammon, Wei-Jen Lee, Iragaba Intwari

2018

Topic

Title	Speakers	Year
Electrical Fatality Rate and Epidemiology of Electrocution in Japan, 2012-2014	Norimitsu Ichikawa	2018
Electrically Hazardous Jobs in the U.S.	Brett Brenner	2019
Electrical Injuries and Fatalities: Facts, Myths and Unknowns	Lloyd Gordon	2019
Explaining Ventricular Fibrillation in Simple Electrical Terminology	Joe Rachford	2020
Electricity Accidents in Brazil: The Data and Characteristics of Accidents. What Is Being Done to Change This Scenario?	Edson Martinho	2021
A State by State Comparison of Occupational Electrical Fatalities	Tammy Gammon, Derek Vigstol	2021
Epidemiology of Rate of Fatality Due to Electric Shock, 2015-2017	Norimitsu Ichikawa, Satoshi Sakaue	2021
Who Is Getting Hurt? Understanding the Cause of Fatal Electrical Injuries in the Workplace	Brett Brenner, Daniel Majano	2022
Analysis of Accidents Caused by Induced Current and Voltage on Transmission Lines and Substations Between 1985-2021	Marcia L. Eblen, Eduardo Ramirez-Bettoni, Keith Wallace	2022
Accidents of Electrical Origin, a Detailed Analysis of Statistics. Brazil Compared to Other Countries	Edson Martinho, Sergio Roberto Santos, Danilo Ferreira de Souza	2022

Topic

Title

Speakers

Year

Analysis of Live Work Accidents in Overhead Power Lines and Other Electrical Systems Between 2010-2022

Eduardo Ramirez-Bettoni, Marcia L. Eblen, Balint Nemeth

2024

Keynote Speakers

[Keynote]

Bruce McClung, Engineering Fellow, Union Carbide Corp.

2003

[Keynote]

Deborah Grubbe, Director, Safety & Health, DuPont

2003

[Keynote]

John Estey, CEO, S&C Electric

2003

[Keynote]

Raphael Lee, MD, Director Electrical Trauma Research Program, University of Chicago

2003

[Keynote]

David Patratis, President, Schneider Electric USA

2004

[Keynote]

David Wallis, Director, Electrical, Electronics and Mechanical Engineering Safety, OSHA

2004

[Keynote]

Gus Zeller, President, Powell Electrical Manufacturing Co.

2004

[Keynote]

David Wallis, Director, Electrical, Electronics and Mechanical Engineering Safety, OSHA

2005

Topic

Title

Speakers

Year

[Keynote]	Ray and Jane Jones, Electrical Safety Consulting Services Inc.	2006
[Keynote]	Michael Callanan, Executive Director, National Joint Apprenticeship and Joint Training Program	2007
[Keynote]	Mary Capelli-Schellpfeffer, MD, Principal Investigator, CapSchell Inc	2007
[Keynote]	Paul & Lorraine Hebert	2007
[Keynote]	Mark Earley, Vice President, National Fire Protection Association	2007
[Keynote]	James Shannon, CEO, National Fire Protection Association	2008
[Keynote]	Michael Morse, PhD, University of San Diego	2008
[Keynote]	Kenneth Mastrullo, Safety & Health Specialist, OSHA	2008
[Keynote]	Palmer Hickman, Director, National Joint Apprenticeship and Joint Training Program	2008
[Keynote]	Dr. Ted Vandervis, President & CEO, Electrical & Utilities Safety Association	2009

Topic

Title

Speakers

Year

[Keynote]

Bruce McClung, Life Fellow IEEE

2009

Achieving Operational Excellence

Jeff “Odie” Odenhip

2010

Electrical Safety: Past Performance, Present Challenge, Future Promise

Mary Capelli-Schellpfeffer, MD

2010

Where We Need to Go

Dr. Joel Fish MD, MSc, FRCS(C)

2011

[Keynote]

Darryl Hill, CSP, PhD

2012

[Keynote]

Ken Mastrullo, OSHA

2012

Defining World Class EHS

Laura Fiffick

2013

Superstorm Sandy: Restoration Challenges Amid an Unprecedented Event

Gregg Slintak

2014

Where Are We? How Did We Get Here? Where Are We Going?

David Wallis

2015

[Keynote]

Deborah Grubbe

2017

Topic

Title

Speakers

Year

[Keynote]

Curtis Weber

2018

The Human Factor

Anna Floyd

2019

Keynote

James Cildea

2020

Maintenance Practices

Implementation of Safe Maintenance Practices

Steve Kerr, Barry Warren

1998

Protective Device Maintenance as it Applies to the Arc Flash Hazard

Dennis Neitzel

2003

Infrared Scanning

A. Holiday

2005

Impact of Maintenance on Electrical Safety

Ken Mastrullo, Jim White

2005

Enhancing Safety Using the NETA Maintenance Testing Specifications

Kerry Heid, Ron Widup

2007

Industrial Electrical Safety Inspections

Dennis Neitzel

2009

Topic

Title	Speakers	Year
Proper Application & Maintenance of Molded Case Breakers to Assure Safe and Reliable Operation	Mark Higginson, David Durocher	2009
Making the Connection with Reliability & Maintenance Management Systems	Lanny Floyd	2010
Inspection Methods to Determine Potential Arc Flash	Sean Miller	2011
Do You Know Where Your Relays are Set	Dan Rousseau, Joe Rachford	2012
Prioritize Circuit Breaker and Protective Relay Maintenance Using an Arc Flash Hazard Assessment	Dan Doan	2012
Applying Reliability Centered Maintenance (RCM) to Electrical Equipment Critical to Worker Safety	Michael D. Fontaine, Dennis M. Green, John C. Webb, Peter A. Stoppello	2013
Predicting the Remaining Life of Aged Vacuum Interrupters in Field Service	John Cadick, F. Ledbetter, A Seidel	2013
Maintenance Errors as Cause for Electrical Injuries—What We Can Learn from Aviation Safety	Lanny Floyd	2019
A Balanced Approach to Molded Case Circuit Breaker Maintenance	Mark Babb, Andrew Trusty	2019
Reliability and Safety of Electric Power Systems	Alan M Ross	2021

Topic

Title

Speakers

Year

Reconditioned Low-Voltage Circuit Breakers—
Are They Really Safe?

David B. Durocher, Thomas Domitrovich

2021

Increasing Safety Through Asset Reliability
Programs

Martin Robinson

2023

Evaluating Substations to the 2023 NFPA 70B
Standard

Austin M. Johnson, Paul B. Sullivan, Scott
T. Brady, Sharon G. Mullen

2024

Management Systems

Changing the Electrical Safety Culture

Lanny Floyd, Ray Jones

1997

Changing the Electrical Safety Culture

Joe Andrews

1997

Managing Electrical Safety during
Organizational Change

Lanny Floyd

1998

Global Safety - Barriers to Overcome and
Design Philosophy (Panel Discussion)

David Pace, Bruce McClung, Kim
Eastwood, Ray Jones, Debbie McDaniel

1999

Panel Discussion: Changing Electrical Safety
Culture; How to Proceed and Get Results

Lanny Floyd

2002

Labor Liaison

Cindy Coe, Dean Foster

2002

Topic

Title

Speakers

Year

"The Five-Sided Electrical Safety Circle - The relationship among employees, employers, labor unions, attorneys, and OSHA in the

John Cadick and Al Winfield

2002

How You Can Start Changing the Culture in Your Organization

Lanny Floyd

2003

Should My Electrical Safety Program be Part of My Safety Program

Lanny Floyd

2007

Keynote: Changing Electrical Safety Culture

Ted Vandeviss

2009

Electrical Safety Leadership

Mike Doherty

2010

Pack your own parachute — Individual ownership and responsibility of safety principles

Jim Mitchem, D. Ray Crow, Mark Cross

2010

Facilitating Application of Electrical Safety Best Practices to "Other" Workers

Lanny Floyd

2012

Methods to Influence Change in Home Safety

Thomas Domitrovich, Anna Floyd, Timothy Smail

2012

Electrical Safety Leadership

Danny Liggett

2012

Cultural Drift and the Occlusion of Electrical Safety

Anna Floyd, Lanny Floyd

2013

Topic

Title

Speakers

Year

Leading Edge Developments in Advanced Safety Management and Application to Electrical Safety

Lanny Floyd

2014

Leadership – A Critical Need

Danny Liggett

2014

Change Management and Your Electrical Safety Program

Tim Rohrer

2014

Leadership in Electrical Safety Comes from the “12th Man”

D. Ray Crow

2015

Changing an Electrical Safety Culture – the Importance of Understanding Why

Richard T. Waters

2016

Changing the Electrical Safety Culture

D. Ray Crow, Danny Liggett, Mark Scott

2017

Integrated Safety Management (ISM) & Risk Management a Complimentary Pairing

Andrew Olsen, Jennifer Martin, Kevin Holm

2017

Normal Operation: Establishing an Electrical Safety & Maintenance Culture

Karl Cunningham

2017

Application of Work Flow Process in an Electrical Safety Program

Terry Becker

2017

Project Team Building to Improve the Safety Culture and Prevention of Electrical Incidents

Matthew Smith

2017

Topic

Title

Speakers

Year

Development and Integration of Electrical Safety Program into a New Production Facility's Pre-Commissioning and Startup Activities

Mark S. Scarborough, Josh D. Popp, Michael Nagl

2017

How My Policy Got in the Way of Our Safety

Christopher J Pavese

2017

Changing the Electrical Safety Culture at a Large Industrial Plant in the Middle East Region

Josh Popp, Nicholas Ghosn, Ahmad Saheb

2018

Through the Lens of Systems Safety: The Limitations of a Compliance-Based Safety Culture and Opportunities to Reduce Electrical

Lanny Floyd

2023

A Scientist's Perspective on Electrical Safety

Ernst Esch, Ray Joggerst

2023

Other Topics

May Electrical Safety Month

Don Vardeman

1992

Workshop Wrap-Up: Where Do We Go From Here?

Clark Lockerd

1996

Where do we go next?

Shahid Jamil

1998

How We Can Get The Most from This Workshop

David Pace

1999

Topic

Title

Speakers

Year

Workshop Wrap-Up:	David Pace	1999
Why are We Here?	Mary Capelli-Schellpfeffer, Danny Liggett	1999
Where we are/Electrical Safety in the 25th Century	Dr. Mary Capelli-Schellpfeffer	2000
Establishing the Boundary of an Electrically Safe Work Condition	Lynn Saunders, Mike Hittel	2000
Engineering the Future	Dr. Mary Capelli-Schellpfeffer	2001
Panel Discussion: Path Forward for Applying these Lessons	Mary Capelli-Schellpfeffer, Ray Jones, Bruce McClung, John Propst, Hugh Hoagland, Allen Bingham, Jim Hill	2001
Example of How to Promote May Electrical Safety Month	Kim Eastwood, Bob Rafferty	2002
Making the VERY Most out of the Electrical Safety Workshop	Kim Eastwood	2002
My Personal Challenge to You	Charlie Hoy	2002
Why I'm Here and Why this Workshop is Important	Deb Grubbe	2002

Topic

Title

Speakers

Year

Why I'm Here and Why this Workshop is Important

Michael Callanan

2002

Why are You Here?

Charlie Hoy, Ray Crow

2002

Why We are Here

Charlie Hoy, Ray Crow, Michael Callanan, and Deb Grubbe

2002

A 10 Year Sprint

Dr. Mary Capelli-Schellpfeffer

2003

The Goal is Zero

Deborah Grubbe

2003

Once Burned, Twice Shy...If You're Lucky

John Estey

2003

I Know Everything

Tammy Reavy

2003

Are We There Yet?

Ray Jones, Jane Jones

2006

Where Will You Be in the Future?

D. Ray Crow

2006

Getting the most out of the 14th Annual IEEE IAS Electrical Safety Workshop

Mike Doherty

2007

Topic

Title	Speakers	Year
Destination - Electrical Safety	Michael Callanan, Mary Capelli-Schellpfeffer	2007
The Day the Lights Went Out	Paul & Lorraine Hebert	2007
Electrical Safety Panel Discussion – What are the Voids in Electrical Safety	D. Ray Crow, Paul Dobrowsky, Lanny Floyd, Jim White	2010
Key note: Electrical Safety – Where We’ve Been, Where We Are, Where We Need to Go	Dr. Mary Capelli-Schellpfeffer	2010
Key Note: Achieving Operational Excellence	Jeff Espenship	2010
Selling Electrical Safety in Your Organization	Tim Rohrer	2013
Collapse of Northern Power Grid 2012: Review Analysis and Recommendations	Dr. Vivek Pandya	2014
Electrical Safety—A Community Service Project	Joe Rachford	2018
Costa Rica Development Towards Electrical Safety	German Moya	2018
100 Years and Counting—What Have We Learned, What Can We Share	Mike Doherty, Al Winfield	2018

Topic

Title

Speakers

Year

Incorporating NFPA 70E at a Utility

Andrew Olsen

2018

Where Do I Stand?

Paul Sullivan

2019

Best Practices for Arc Flash Labels, Safety Labels, and Signs

Tim Rohrer

2019

Application of Artificial Intelligence in Electrical Safety

Mike Doherty, Behzad Esmaeili

2020

Safety Considerations While Working at a Private or Public Utility

Tom Zampell, Frank Gonzalez

2022

The Impact—“Just an Electrician”

Jennifer L Martin

2022

Wearable-Based Monitoring System for Lineman in Power Utilities to Mitigate Workplace Health and Safety Risks

Fillipe M. de Vasconcelos, Carlos F. M. Almeida, Stéfano R. Gualtieri, Sérgio M. de Eston, Nelson Kagan, Vanessa R. S. Damasceno, Luciana C. Filho, João L. B. D. S.

2022

Irregular Low-Voltage Electrical Cables

Danilo Ferreira de Souza, Walter Aguiar Martins Júnior, Edson Martinho

2023

Dismiss Your Fears: A Guide to Writing and Presenting a Paper at the IEEE Electrical Safety Workshop

David B. Durocher

2024

Topic

Title

Speakers

Year

Personal Protective Equipment

Personal Protective Equipment

Bill Jordan

1992

Personal Protective Equipment - Design
Viewpoint - Operation & Maintenance Viewpoint

Bill Jordan, Shahid Jamil

1996

Update on Protective Clothing Guidelines

Richard Doughty, Tom Neal, Allen
Bingham

1997

Arc Flash Testing for PPE

Ray Crow

1997

Testing Update on Protective Clothing & Equip.

Dr. Tom Neal, Dick Doughty

1998

Tools to Simplify Protective Clothing/Equip.
Selection

Lanny Floyd

1998

Estimating Arc Flash Incident Energy and PPE
Selection

Dick Doughty, Tom Neal

1999

Impact of Design Modifications in Modern Fire
Fighting Uniforms on Burn and Heat Stress
Injuries: Lessons for Arc Flash PPE

Dr. David Prezant

2001

Arc Flash PPE

Allen Bingham, Hugh Hoagland

2002

Topic

Title

Speakers

Year

Dress for the Task	Paul Hamer	2002
This Could Happen To You; Wear Appropriate Clothing	Dr. Mary Capelli-Schellpfeffer	2002
Protective Clothing Learnings Based on Instrumented Mannequin Arc Tests	Dr. Tom Neal, Hugh Hoagland	2002
Care and Use of Rubber Protective Equipment	Vladimir Ostrowski	2003
Electrical PPE and NFPA70E	Hugh Hoagland	2005
The Case for Everyday FR Wear	Dan Doan, Craig Wellman	2005
Electrical Safety Equipment – The Big Picture	Jim White	2006
Recent Advances in Arc Flash PPE & Impact of Arc Flash Test Exposure Conditions on PPE Arc Testing	Hugh Hoagland, Mike Lang, Tom Neal	2007
Advancements in Electrical PPE for the Worker	Vladimir Ostrovsky	2008
ASTM Standards – An Update on the ASTM F18 Standards – Electrical Protective Equipment for Workers	Jeff Adkins, Ernie Jones	2009

Topic

Title

Speakers

Year

PPE in the Electric Arc – A Case for Collaboration

Hugh Hoagland

2009

Update of Field Analysis of Arc Flash Incidents, PPE Protective Performance and Related Worker Injuries

Dan Doan, Tom Neal, Hugh Hoagland

2010

NFPA 70E and Arc Flash PPE Update

Hugh Hoagland

2010

Arc Flash PPE Research Update

Hugh Hoagland

2011

Study of Effects of Mining Industry Contaminations on Protective Properties of Arc Rated Clothing Using ASTM F1959

Hugh Hoagland, Lionel Smith, Cecil Burton, Claude Maurice, Mikhail Golokov, Rob Pailing

2012

Clothing in Arc Flash: Four Types of Arc Exposure and the Effect of Moisture on Garment Appearance After an Arc Event

Hugh Hoagland, Claude Maurice, Mikhail Golokov, Phillip Clark

2013

Arc Flash Testing Update: Effect of Arc Electrode Geometry and Distance on Cotton Shirt Ignition

Mikhail Golokov, Elihu Hugh” Hoagland

2014

Issuing, Distributing and Tracking of Electrical and Arc Flash PPE

Robert J Spang

2015

Quality Inspection of Electrical PPE

Robert J Spang

2017

Matching Arc Rated PPE to the Hazard: Why Does It Work?

Hugh Hoagland, Claude Maurice, Marcia Eblen, Jim Phillips

2020

Topic

Title

Speakers

Year

Power Line Contact Mitigation

Safety Interventions to Control Hazards Related to Power Line Contact by Mobile Cranes and other Boomed Equipment	Jack Ainsworth	2005
Contact with Overhead Power Lines How Can We Prevent This?	D. Ray Crow	2009
“Look Up and Live”: Developing an Effective Overhead Power Line Safety Program	Pam Tompkins	2013
Best Practices for Working in Proximity to Overhead Powerlines	Mike Doherty, Dean Gatien	2013
Electrical Safety for Crane Operators and Riggers	Dennis K. Neitzel	2015
Occupations Most At-Risk in Fatal Overhead Power Line Incidents: Using OSHA Data to get a Better Understanding	Brett Brenner, James Cawley	2015
Equipment Operation Near Power Lines	Jennifer L. Martin	2018
Protecting Workers from Electromagnetic Induction During Line-Stringing Operations	David Wallis, Brian Erga	2021

Research - PPE

Protective Clothing Testing Update	Tom Neal	2003
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Topic

Title

Speakers

Year

Arc Exposure for Rubber Goods, Affect of Color	Allen Bingham	2003
Arc Flash Product Improvements	Tom Neal	2005
Arc Flash Clothing Updates	Hugh Hoagland	2006
Arc Flash Improvement Update and Worker Heat Stress Analysis for Arc Flash PPE	Tom Neal	2006
The Impact of Arc Flash radiant and Convective Test Conditions on the Arc Rating of PPE	Thomas E. Neal, Michael J. Lang	2008
Field Analysis of Arc Flash Incidents and the Related PPE performance	Thomas E. Neal, Daniel R. Doan	2009
Arc Flash PPE Research Update	Hugh Hoagland	2012
Challenge Accepted: Specialty PPE for Shock and Arc Flash Protection	Hugh Hoagland, Brian Shiels, Stacy Klausing	2022
The Impact of Abrasion and Cut Resistance on Rubber Insulating Gloves from Aramid Lined and Unlined Leather Protector Gloves	Eduardo Ramirez-Bettoni, Aasim Atiq, Max Hackett, Eric Key	2023

Topic

Title

Speakers

Year

Risk Management

Risk Management & Hazard Identification

Danny Liggett

2008

Arc Flash Personal Protective Equipment—
Applying Risk Management Principles

Daniel Roberts

2010

Arc Flash Personal Protective Equipment
Applying Risk Management Principles—Part II

Daniel Roberts

2011

Risk Management of Electrical Hazards

Daniel Roberts

2012

Static Electricity

Controlling Static Electricity

Rick Kocken and William Lewis

1996

Tools and Test Instruments

Tools for the Electrician

Paul Dobrowsky

2005

How Test Tool Safety can be Addressed More
Effectively in NFPA70E

Larry Eccleston

2006

Use of Non-Contact Voltage Testers

Danny Liggett, John Cadick

2007

Topic

Title

Speakers

Year

Training/Education

Training - Methods & Resources

Lanny Floyd

1992

Training & Follow-up

Kim Eastwood, Lynn Roach

1995

Electrical Safety Training Topics for Plant Personnel

Shahid Jamil

1998

Electrical Safety Employee Training

Danny Liggett, Lanny Floyd

1999

What's New at Electrical Safety Foundation International

Michael Clendenin

2003

The IEEE Electrical Safety Resource Center

Sue Vogel

2003

Electrical Apprenticeships: The Good, The Bad, The Ugly

Robert McGregor

2004

Training and Qualifying Your Employees

Danny Liggett

2005

Don't Forget About Me! I Wanna Be Safe Too

Joe Rachford

2007

Topic

Title

Speakers

Year

A Resource for Electrical Safety – the Electrical Safety Foundation International

Brett Brenner

2007

Qualified to be Qualified

Mike Doherty, Ravel Ammerman

2007

Continuing Education and Development for Electrical Safety Professionals

John Aeiker

2011

Simulation Based Electrical Safety Training: An Innovation in Safety Culture

Eben Myers, Courtney Francis

2011

Reinvigorating Electrical Safety

Brett Brenner

2011

The Role of Media in Accelerating Knowledge on Arc Flash

Bob Vavra

2012

Qualifying and Keeping Your Employees Qualified: How Hard Can That Be?

Irozenell Pruitt, Mario Morales

2014

Moving from Training to Compliance

Robert S LeRoy, Tim McCoy

2014

Qualified People—It Is All About the Skill Sets

Joe Rachford

2015

Educating Students in Electrical Safety Practices and the Inclusion of Electrical Safety Material in Academic Curriculum

Jay Prigmore, Afshin Majd

2017

Topic

Title

Speakers

Year

Effective Electrical Safety Program Training in Multi-Lingual/Cultural Environments

Michael Kovacic, Karl Cunningham

2018

Best Practices for Engaging Safety Professionals on Electrical Topics

Rachel Bugaris, H. Landis Floyd

2020

Best Practices: Training, Presentations & Support Materials

Tim Rohrer

2020

5-Minute Job—Training an Unqualified Worker for When Things Go Wrong

Joe Rachford

2021

Racking out or in Power Circuit Breakers Is Simple Isn't It?

Terry Becker

2024

The Alarming Safety Knowledge Gap Among New Electrical Workers

Caitlyn Wininger

2024

Tools to Increase Children and Teenagers' Awareness of Electrical Risks

Danilo Ferreira de Souza, Walter Aguiar Martins, Edson Martinho

2024

Communication – Number One Electrical Safety Issue

Joe Rachford

2024

Tutorials

Arc Flash Hazard Analysis

Dan Doan, Craig Wellman, Vince Saporita, George Gregory

2003

Topic

Title

Speakers

Year

NFPA70E-2004	Ken Mastrullo, Ray Jones	2004
Determining the Design Changes Needed to Reduce Arc Flash Hazards	Dan Doan	2005
Design an Electrical safety Program	Mike Doherty	2005
Integrating a State of the Art Electrical Safety Program into Your Company's Business Objectives	Lanny Floyd, John Aeiker, Danny Liggett, Paul Sullivan	2006
High Resistance Grounding Theory, Design and Application Considerations for Reducing Arc Flash Hazard Risk	John Nelson, P.K. Sen	2006
Developing a State of the Art Electrical Safety Auditing Program	John Aeiker, D. Ray Crow	2007
Arc Flash Hazard Assessments – Quirks, Problems and Solutions	Dan Doan, Michael Hodder, Ken Jones	2007
NFPA70E – 2009: What has Changed?	D. Ray Crow, Daleep Mohla	2008
Safety by Design	Jim Bowen	2008
Electrical Safety Management	Lanny Floyd, Mike Doherty, Rene Graves	2009

Topic

Title

Speakers

Year

Electrical Safety Basics	Danny Liggett, D. Ray Crow, Ken White	2009
Safety Related Maintenance Requirements of NFPA70E	Jim White	2009
Risk Evaluation	Danny Liggett, John Aeiker, Mike Doherty	2009
Electrical Safety Management v1.1	Lanny Floyd, Mike Doherty, Rene Graves	2010
Electrical Safety Basics	Danny Liggett, D. Ray Crow, Ken White	2010
Personal Protective Grounding for Electrical Workers	John Kolak	2010
Electrical Safe Work Planning – “The Five Steps”	Mike Doherty	2010
Electrical Safety Management v2.0	Lanny Floyd, Mike Doherty, Rene Graves	2011
Electrical Safety Basics	Danny Liggett, D. Ray Crow, Ken White	2011
Use of Systems Safety Techniques to Perform Hazard Analysis on Electrical Systems & Electrical Safety Programs	John Kolak	2011

Topic

Title

Speakers

Year

How to Create an Effective Electrical Maintenance Program

Martin Robinson, Mike Doherty, Lanny Floyd

2011

Electrical Safety Basics

Danny Liggett, D. Ray Crow, Ken White

2012

Electrical Safety Management v2.1

Lanny Floyd, Mike Doherty, Rene Graves, Andy Kerr

2012

Arc Flash Energy Calculations – Update, Special Conditions and Examples

Daniel Doan

2012

NFPA 70E-2012: Major Evolution in Electrical Safety in the Workplace

D. Ray Crow, Daleep Mohla, Jim White

2012

Electrical Safety Demonstrations Training Unqualified Workers

Joe Rachford

2012

Electrical Safety Management v2.2

Mike Doherty, Rene Graves, Lanny Floyd

2013

Arcing Hazards Physics

David Sweeting

2013

Occupational Health and Safety Risk Management

Daniel Roberts

2013

Electrical Safety Basics

D. Ray Crow, Danny Liggett, Ken White

2013

Topic

Title

Speakers

Year

System Grounding, Ground Fault Protection and Electrical Safety

John Nelson

2013

Developing a State of the Art Electrical Auditing Program

John Aeiker, D. Ray Crow, Danny Liggett

2013

Personal Protective Grounding of High Voltage Equipment

John Kolak

2013

Electrical Safety Demonstration for Training Unqualified Workers

Joe Rachford

2013

Speak Up Now or Live With It –Proposed Changes to NFPA70E-2015

Daleep Mohla

2013

Electrical Safety Management v2.3

Mike Doherty, Rene Graves, Lanny Floyd

2014

Electrical Safety Basics

D. Ray Crow, Danny Liggett, Ken White

2014

How to Perform an Arc Flash Hazard Analysis for Beginner up Through Complex Modeling Situations

Ken Jones, Jim Phillips, and Dan Doan

2014

NFPA 70E – 2015 Edition, What has changed!

D. Ray Crow, Daleep Mohla, Jim White

2014

Holistic Leadership—A Critical Need

Danny P Liggett, Mike Doherty

2014

Topic

Title

Speakers

Year

Electrical Hazard Analysis from a PSM Perspective

John Aeiker, Danny Liggett

2014

Electrical Safety Management v2.4

Mike Doherty, Rene Graves, Lanny Floyd

2015

Methods of Calculating DC Arc Flash Hazards for All Sources

Lloyd Gordon

2015

Risk Assessment of Electrical Hazards

Michael David Fontaine, Daniel Roberts, David Wallis

2015

NFPA 70E-2015 - What has Changed

D. Ray Crow, Daleep Mohla, Jim White

2015

Can Safety, Reliability, and Efficiency Co-Exist?

David R. Carpenter

2015

Electrical Maintenance and Electrical Safety

Jim White, Tony Demaria

2016

What You Need to Know about Electric Arc Protection

Holger Schau, Mikhail Golovkov

2016

Electrical Safety Management v2.5

Lanny Floyd, Mike Doherty, Rene Graves

2016

Identifying & Controlling Electrical Power Line Hazards

Dennis Neitzel, Pam Tomkins, James Cawely

2016

Topic

Title

Speakers

Year

Practical Electrical Safety for the Construction Industry Using the Standards

Mike Doherty, Robert LeRoy, Jason Wolf, Mark Cross, Chris Fink, Michael P

2016

NFPA 70E Q&A or FAQ

Al Havens

2016

AC and DC Arc Flash Analysis for Renewable Energy Systems

Albert Marroquin, John Francis

2017

Electrical Safety Basics

D. Ray Crow

2017

Electrical Safety Management v3.0

Lanny Floyd, Mike Doherty, Rene Graves

2017

Engineering Controls to Reduce Arc Flash Hazards in Low Voltage MCCs

Jim Bowen

2017

Performing a Basic Electrical Safety Site Walkthrough and Assessment

Michael Kovacic, Karl Cunningham

2017

2018 Changes to NFPA 70E, Standard for Electrical Safety in the Workplace

Daleep Mohla, Ray Crow, Jim White

2017

Electrical Safety Basics

Terry Becker, Lanny Floyd, Rene' Graves

2018

2018 Changes to NFPA 70E, Standard for Electrical Safety in the Workplace

Daleep Mohla, Ray Crow, Jim White

2018

Topic

Title

Speakers

Year

A Framework for Selection of Incident Energy Mitigation Technology

Antony Parsons, Albert Marroquin

2018

Demonstration of Skills Through Practical Hands on Testing of Qualified Electrical Workers

Michael Kovacic, Karl Cunningham

2018

Getting Started, Is Your Electrical Safety Program Making the Grade?

Robert LeRoy, Jeff Grovom

2018

Electric arc protection perceptions and concerns: current state of standardization in IEEE, IEC, ASTM, and NFPA.

Mikhail Golovkov

2018

Understanding Personal Protective Grounding

Brian Erga, David Wallis

2019

Applying Power of Prevention through Design in Your Electrical Safety Program

Lanny Floyd

2019

Introduction to the 2018 Edition of IEEE 1584, Guide for Performing Arc-Flash Hazard Calculations

Daleep Mohla, Jim Phillips, Wei-Jen Lee, Albert Marroquin

2019

Application of a Complete Electrical Risk Assessment Method for All Electrical Hazards

Tommy Martinez, Lloyd Gordon

2019

Risk Assessment Methods for Battery Bank Thermal, Shock and Arc Flash Hazards

Kyle Carr, Peter McNutt

2019

Back to Basics - Grounding and Bonding

Jimmy Guerrero, Amber White

2019

Topic

Title

Speakers

Year

Developing a State-of-the-Art Electrical Safety Auditing Program

Ray Crow, Daleep Mohla

2019

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