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Electrical Safety Specialist

Chicago Electrical Trauma Rehabilitation Institute www.CETRI.org

Areas of Expertise

- Occupational Electrical Injuries
- Electric Shock & Arc Flash
- OSHA Electrical Regulations
- Human Performance
- Industry Standards, including NEC, NFPA70E, NESC
- Electrical Safe Work Practices
- Operational Excellence
- Safety Management Systems
- Workforce Development
- Design, Maintenance, Operations & Construction

I received my BSEE from VA Tech in 1973. My 45+ year career with DuPont focused on electrical safety in the construction, operation and maintenance of DuPont facilities worldwide. My responsibilities included improving management systems, competency renewal, work practices, integration of electrical safety regulations, codes and standards, and the application of technologies critical to electrical safety performance in all DuPont operations. From 1990 to 2014, I led the design, implementation, and continuous improvement of the electrical safety management system for DuPont global operations, achieving breakthrough performance in risk reduction. In the first 25 years of my career, DuPont experienced 12 electrocution fatalities. In the last 20 years of my career, there were zero electrocution fatalities. I am an adjunct faculty member in the graduate school of Advanced Safety Engineering and Management at The University of Alabama at Birmingham (UAB). At UAB, I have taught Introduction to Systems Safety & Prevention through Design, Engineering Ethics & Acceptable Risk, and Electrical Systems Safety which I developed and currently teach. I am the electrical safety specialist on staff at the Chicago Electrical Trauma Rehabilitation Institute. I have published more than 90 peer reviewed papers and articles on occupational electrical safety. I have received awards from leading institutions recognizing my work to advance the practice of electrical safety. I am an IEEE Life Fellow, a professional member of American Society of Safety Professionals, a Certified Safety Professional, a Certified Electrical Safety Compliance Professional, a Certified Utility Safety Professional, a Certified Maintenance & Reliability Professional, a Certified Reliability Leader and a registered professional engineer in Delaware, Michigan, Pennsylvania, and Texas. I established Electrical Safety Group, Inc. in 2001 to provide expert witness and consulting services in electrical safety matters.

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I. Employment History

2013 - present: The University of Alabama at Birmingham, adjunct professor in Advanced Safety Engineering and Management. I have taught graduate engineering courses *Introduction to Systems Safety & Prevention through Design, Engineering Ethics & Acceptable Risk, Policy Issues Impacting Prevention through Design*, and I developed and currently teach *Electrical Systems Safety*.

2001 - present: Electrical Safety Group Inc., owner and principal consultant providing consulting and expert services in electrical safety matters.

2011 – 2018 – Editor in Chief, *IEEE Industry Applications Magazine*

1978 - 2014: DuPont Co. An electrical engineer in central engineering groups providing consulting services supporting construction, operations, maintenance and safety of electric power and control systems in DuPont Global Operations. I retired in 2014 as Principal Consultant Electrical Safety & Technology and Global Electrical Safety Competency Leader.

1973 - 1978: DuPont Co. An electrical engineer with assignments in design, operation and maintenance of power distribution and motor control systems for a large industrial facility.

1969 - 1972: DuPont Co. Assignment was an electrical engineering intern providing engineering support services for power distribution and motor control project designs in a large industrial facility.

1966 - 1969: Coleman Electric Co., a wholesale distributor of industrial electrical equipment. Assignments were as a part time employee in warehouse operations, counter sales and customer deliveries.

II. Experience Summary

For over 40 years, I have challenged the status quo of electrical safety in the workplace. I am experienced in application of human performance, electrical engineering, electrical technology, codes, standards, regulations and safety management systems in preventing occupational electrical injuries. I have been active in the Institute of Electrical and Electronics Engineers (IEEE) technical committees impacting electrical safety since 1983. I have authored or co-authored more than 100 published papers and articles and received numerous prize paper awards from the IEEE. I have given more than 150 presentations at conferences, seminars and webcasts. In 2000, I was elected to Fellow in the IEEE, with the citation, “for contributions to improve workplace electrical safety”. I have received awards for my contributions in advancing the practice of electrical safety from National Fire Protection Association, Electrical Safety Foundation International, Institute of Electrical and Electronics Engineers, IEEE Industry Applications Society, IEEE Petroleum and Chemical Industry Committee, and IEEE Electrical Safety Committee. I am past president of the Industry Applications Society (IAS), past chair of the IAS Petroleum and Chemical Industry Committee, past chair of the IAS Power Systems Engineering Committee, past chair of IEEE Standard 902 Guide to Maintenance Operation and Safety of Industrial and Commercial Power Systems, past chair of the Petroleum and Chemical Industry Committee Safety Subcommittee, and past editor of the Safety Column for IEEE Industry Applications Magazine. In 1991, I co-founded the IEEE IAS Electrical Safety Workshop, an annual forum for accelerating application of improvements in electrical safety. I am a past member of the Board of Governors of the IEEE Standards Association. I am a member of the National Fire Protection Association and represented the IEEE on the National Electrical Code Panel 1 from 1990 to 2014. I have helped develop NFPA 70E, *Standard for Electrical Safety in the Workplace* and was a charter member of CSA Z462, *Standard for Workplace Electrical Safety* Technical Committee. I served as a member of the Board of Directors of Electrical Safety Foundation International 1996-2014.

III. Consulting Engagements

Palo Verde Nuclear Power Station, Arizona Public Service
Consulting on Prevention through Design

Verisafe, Inc
Review electrical safety management

Syntrio, Inc
Review and update occupational electrical safety training product

National Institute for Occupational Safety and Health (NIOSH)
Development of Prevention through Design modules for occupational electrical hazards

Skyword Inc.
Technical contributor to Cintas *Ready for the Workday* media campaign

DuPont Sustainable Solutions
Consulting in occupational electrical safety management and Serious Injury & Fatality
Prevention

The University of Alabama at Birmingham
Advanced Safety Engineering and Management
I developed and teach the graduate engineering course ASEM 628 Electrical Systems Safety

U.S. Dept of Defense
Member of Safety Oversight Committee Electrical Safety Working Group

BHP Steel - Australia
Consulting in occupational electrical safety management

IV. Expert Witness Engagements

⁽¹⁾ provided deposition testimony ⁽²⁾ provided trial testimony 27 total testimonies
For the defendant: 37 (36%) For the plaintiff: 67 (64%)

2025

Mandajano v ONCOR
Arc flash injury
Retained for the plaintiff by The Herrera Law Firm, Inc.
San Antonio, TX

Vermillion v PEPCO
Overhead powerline contact
Retained for the plaintiff by Mike Miller Law
Clinton, MD

Milsap v R.K. Bass Electric
Electric shock injury
Retained for the plaintiff by Wright & Greenhill, P.C,
Austin, TX

Salyer v Northern Indiana Public Service Co.
Electric shock injury
Retained for the defendant by Sopko, Neusbaum, Inbinat, Kazmarzek
South Bend, IN

Mahaffey v Delaware Electric Cooperative
Electric shock injury
Retained for the plaintiff by Hudson, Castle & Inkell, LLC
Wilmington, DE

Hernandez v Charter
Electric Shock Injury
Retained for the defendant by Plant, Christensen, and Kanell
Salt Lake City, Utah

Cabrera v Charter
Electric shock injury
Retained for the Plaintiff by Juneau, Boll and Stacy
Addison, TX

Phillips v CMP
Electric shock fatality
Retained for the defendant by Clifford & Clifford LLC
Portland, ME

Terani v Lowes
Electric shock injury
Retained for the plaintiff by Mesriana Law Group
Santa Monica, CA

Tungate v Charter
NESC compliance injury
Retained for the plaintiff by The Law Office of Hunter A. Nunn
Dallas, TX

Kramer v Dominion Power
Electric shock injury
Retained for the plaintiff by Shulman Rogers
Potomac, MD

Ordonez v Cypress Construction et al
Overhead powerline contact fatality
Retained for the plaintiff by Stanley & Associates
Plano, TX

Shuck v Kroger
Electrocution fatality
Retained for the plaintiff by Abrams Landau, LTD
Herndon, VA

2024

Thornsbury v St Albans Center et al ¹
Electric shock fatality
Retained for the plaintiff by WV Lawyers PLLC
Charleston, WV

Beadlescomb v De Maria
Arc flash injury
Retained for the plaintiff by Myers Law PLLC
Dearborn, MI

Finley v Horton Construction
Electric shock injury
Retained for the plaintiff by the Spellman Law Firm
Des Moines, IA

PPL before the Pennsylvania Public Services Commission
NEC & UL standards compliance
Retained for PPL by Post & Schell, P.C.
Pittsburg, PA

Vazquez v Hamilton Construction, Case # D-101-CV-2024-00713
Electrocution fatality
Retained for the defendant by Jennings Haug Keleher McLeod Waterfall LLP
Albuquerque, NM

Murcia v Grid One Solutions, Case # C-02-CV-23-002071
Workplace Management
Retained for the defendant by Semmes Law Firm
Baltimore, MD

Exposito v Disney, Case # 2021-CA-012039-O
Electric shock
Retained for the plaintiff by Friedland and Associates
Fort Lauderdale, FL

Ricks v Guarantee Electric Co., Case # 1922-CC10745 ⁽¹⁾
Assured grounding failure
Retained for the plaintiff by Labovitz Law Firm
St Louis, MO

NSK v Intercontinental Terminals Company LLC, Case # 4:21-CV-3120 ⁽¹⁾
Deer Park Fire Litigation
Retained for the defendant by Hogan Lovells US LLP
Houston, TX

Valdovinos v Meitec, Case #: 2021-000192, Div. H
Electric shock injury
Retained for the plaintiff by Provost Umphrey Law Firm LLP
Beaumont, TX

Sordahl v Enbridge Energy, Case # 22-CV-208
Overhead line contact injury
Retained for the defendant by Amundsen Davis LLC
Milwaukee, WI

Carter v VLS
Electrical LOTO
Retained for the plaintiff by Marciano & MacAvoy, P.C.
Philadelphia, PA

Charles Pepper v Days Inn by Wyndham, Case # CL23000223-OO
Electric shock injury
Retained for the plaintiff by Emroch and Kilduff LLC
Richmond, VA

2023

Hoon v Cloverdale Farms, Case # 30-2023-CV-00177
Electric arc flash injury
Retained for the plaintiff by Bakke, Grinolds and Weiderholt
Bismarck, ND

Johnson v TBD
Life support systems electric power failure
Retained for the plaintiff by Gautreaux Law, LLC
Macon, GA

People v Walker, Case # SCD282520 ^(1, 2)
Alleged electric shock torture
Retained by Public Defender, County of San Diego, CA

OSHA v US Engineering, Inspection # 1541625 ⁽¹⁾
HVAC electrocution fatality
Retained by OSHA, Kansas City, MO

Carey v AEP et al
Overhead powerline contact
Retained by the defendant by Brewster Morhous PLLC
Bluefield, WV

Hernandez v Avila, Docket # 22RA-CV01006 ⁽¹⁾
Electrocution from cord powered tool
Retained for the plaintiff by the Hershewe Law Firm PCC
Joplin, MO

Miles v AEP et al, Case # 21-CI-00235
Overhead powerline contact
Retained for the defendant by Steptoe and Johnson, PLLC
Lexington, KY

Sandia Vista LLC v Board of County Commissioners of Dana Ana County et al
Case # D-307-CV-2022-00814
NEC Interpretation
Retained for the defendant by Mynatt Springer P.C.
Las Cruces, NM

Martinez v. BG&E et al
Overhead powerline contact
Retained for the plaintiff by McCarthy, Winkelman, Mester & Offutt, L.L.P.
Lanham, MD

OSHA v Altitude Energy, Inspection # 1589683
Overhead powerline contact
Retained by OSHA, Denver, CO

Meacham v. Pryzm Consulting LLC et al, Case # 1CVV-20-0000882 ⁽²⁾
Overhead powerline line contact
Retained for the defendant by MacDonald Rudy Law Firm
Honolulu, HI

Taufalel v. Pryzm Consulting LLC et al, Case # 1CVV-20-0000882
Overhead powerline line contact
Retained for the defendant by MacDonald Rudy Law Firm
Honolulu, HI

Walker v IHI, Docket, Case # 1:23-CV-00057
Electric shock injury
Retained for the plaintiff by Mandell, Boisclair & Mandell Ltd
Providence, RI

Martin v Toyota et al, Case # 23-C-340
Electric shock/arc flash injury
Retained for the plaintiff by Ciccarello, Del Giudice & LaFon
Charleston, WV

2022

Love v FP&L, Case # CACE-21-010291(09) ⁽¹⁾
Powerline electrocution
Retained for the plaintiff by Cohen & Juda, P.A.
Plantation, FL

Williams vs Texas State Fair et al, Case # DC-20-19238
NEC compliance
Retained for the plaintiff by Waranch & Nunn, PLLC
Dallas, TX

Ramos vs Lewis Petro Group et al
Electric shock fatality
Retained for the plaintiff by PMBG LLC
Laredo, TX

Rufo vs McPhee et al, Case # MON-L-3216-20
Overhead line contact injury
Retained for the plaintiff by The Lomurro Law Firm
Freehold, NJ

Madry vs George Koch Sons, Case # 4:19-CV-00258-RLW
Control of hazardous energy
Retained for the plaintiff by The Gogel Law Firm
St. Louis, MO

Quijada vs Amerlux, Case # 19-L-7236 ⁽¹⁾
Electric shock injury
Retained for the plaintiff by GWC Injury Lawyers LLC
Chicago, IL

Wood vs Verizon, Case # 71389332-520
Overhead telecommunication line
Retained for the defendant by Goldberg Segalla
Buffalo, NY

McMann vs Bateman Cable et al, Case # DCCV19-0769-87
Overhead line contact fatality
Retained for the plaintiff by Roberts & Roberts
Tyler, TX

Brown vs Coalview Recovery et al, MSHA Investigation # CAI-2018-11
Electric Shock Drowning
Retained for the plaintiff by The Law Office of Kamela James
Olympia, WA

Hanson vs CANMOV
Electric shock injury
Retained for the plaintiff by Clifford & Clifford LLC
Kennebunk, ME

2021
OSHA vs Volt Power, Inspection # 1363002
Electrocution fatality
Retained by OSHA, Dallas , TX

Filiault vs Verizon, Case # 1964CV00797
Pole collapse
Retained for the defendant by Tucker, Saltzman & Dyer, LLP
Boston, MA

Wagner vs Comcast et al, Case # 220301861
Overhead line contact injury
Retained for the plaintiff by The Law Office of Jeffrey R. Feldman
Farmington Hills, MI

Garvin vs SCE&G et al, Case # 2017-CP-38-01358
Overhead line contact injury
Retained for the defendant by Richardson, Plowden & Robinson, P.A.
Columbia, SC

Johnson vs Caterpillar, Case # 55-CV-19-5215
Electric Arc Flash Injury
Retained for the plaintiff by the Morris Law Firm
Burbank, CA

Balderson vs Mona Electric Group, Case # 2021-CA002549B
Electric Shock Injury
Retained for the plaintiff by Thomas W. Farrington, Esq
Kennington, MD

OSHA vs L.E. Myers Inc., Inspection # 1445647⁽¹⁾
Electrocution fatality
Retained by OSHA, Pensacola, FL.

Dozier vs WinSam et al, Case # DC-21-07043 ⁽¹⁾
Electric shock injury
Retained for the plaintiff by Roberts & Roberts
Tyler, TX

OSHA vs Shermco
Electric shock injury
Retained by Shermco Industries
Irvine, TX

State Farm vs AT&T, Case # 01-CV-2020-900221.00
Electrical Fire
Retained for the defendant by Boles Holmes Parkman White LLC
Birmingham, AL

Kern vs MHC Boulder Cascade LLC, Case # A-19-793981-C
Arc flash injury
Retained for the defendant by Fennemore Craig,P.C.
Reno, NV

Caballero vs Power Design Inc., Case # 220CA 004804 B
Arc flash injury
Retained for the plaintiff by Myers, Rodbell & Rosenbaum, P.A.
Riverdale Park, MD

2020

Hogan vs Tecumseh, Case # CV21-020-(PF)-L
Electric shock and arc flash injury
Retained for the plaintiff by Biggs, Pettis, Ingram & Solop, PLLC
Jackson, MS

Knight vs Goodnight, Case # D-117-CV-2020-00316
Arc flash injury
Retained for the defendant by Keleher & McLeod, P.A.
Albuquerque, NM

Osorino vs ComEd et al, Case # 2017-L-9822, C/W 2018-L-2982 ⁽¹⁾
Overhead line contact injury
Retained for the plaintiff by Power Rogers LLC
Chicago, IL

Smith vs Charter Communications et al, Case # 70-CV-2020-900040 ⁽¹⁾
Vehicle contact with low hanging overhead line
Retained for the plaintiff by Petway, French & Ford LLP
Birmingham, AL

Jackson vs Primoris T&D Services
Overhead line shock fatality
Retained for the plaintiff by Ketterman, Rowland & Westlund
San Antonio, TX

Alston vs House Lifestyles Corp et al, Case # C2019-22336B
Overhead line contact shock fatality
Retained for the plaintiff by Ketterman, Rowland & Westlund
San Antonio, TX

Gieryk v Sam's West et al, Case # 181203197
Electric shock injury
Retained for the defendant by Fineman, Krekstein & Harris, P.C.
Philadelphia, PA

Mendez vs Oncor, Case # DC-20-17509
Electric shock/arc flash injury
Retained for the plaintiff by Crain, Brogdon and Rogers LLP
Dallas, TX

2019

Oliphant vs Auspark LLC et al
Electric shock/arc flash injury
Retained for the plaintiff by Charles G. Monnett III & Associates
Charlotte, NC

Hopkins vs Cornerstone Building and Restoration Inc et al
Overhead line contact injury
Retained for the plaintiff by Clifford & Clifford LLC
Kennebunk, ME

Jupin vs Atlantic City Electric et al
Overhead line contact injury
Retained for the defendant by Obermayer Rebmann Maxwell & Hippel LLP
Mount Laurel, NJ

Iannazzo vs Huron Group
Electric shock injury
Retained for the plaintiff by O'Brien & Ford, PC
Amherst, NY

Armendarez vs SCE&G et al ⁽¹⁾
Overhead line contact injury
Retained for the defendant by Richardson, Plowden & Robinson, P.A.
Columbia, SC

OSHA vs ABSS
Catastrophic explosion, electrical equipment classification for hazardous areas
Retained by OSHA, Chicago office

Villareal vs Commonwealth Edison et al
Overhead line contact injury
Retained for the plaintiff by Power, Rogers and Smith
Chicago, IL

Marcotte vs Dominion Power
Down powerline contact injury
Retained for the plaintiff by The Law Firm of Timothy Hankins
Newport News, VA

OSHA vs Kumar
Overhead line contact step potential fatality
Retained by OSHA, Denver office

Thomas vs JCP&L⁽¹⁾
Down power line contact fatality
Retained for the plaintiff by Lum, Drasco and Positan LLC
Roseland, NJ

Value Village vs American Properties at Andrews Manor LLC ⁽¹⁾
Equipment failure and power outage
Retained for the plaintiff by Shulman Rogers
Potomac, MD

Shareef El-Jamaly vs Detroit Edison et al⁽¹⁾
Overhead line contact injury
Retained for the plaintiff by The Law Office of Jeffrey R. Feldman
Farmington Hills, MI

2018

Droz vs Thompson Electric et al
Electric shock injury
Retained for the plaintiff by Radke Law Office PC
Sioux Falls, SD

Howard vs Kentucky Utilities et al
Residential electrocution fatality
Retained for the defendant by The Law Office of Deborah R. Lewis
Hazard, KY

Perez vs Delmarva Power & Light et al
Overhead line contact fatality
Retained for the plaintiff by Murphy & Landon
Wilmington, DE

Patrone vs Commerce Assoc. LP
Electric shock injury
Retained for the plaintiff by Weik, Nitsche & Dougherty, LLC
Wilmington, DE

Williams vs Schneider Electric et al
Electric shock injury
Retained for the plaintiff by Reiner, Slaughter, McCartney & Frankel

Cooney vs Washington Convention Center et al ⁽¹⁾
Electric shock injury
Retained for the plaintiff by Grenier Law Group PLLC
Washington DC

OSHA vs Jacobs Field Services ⁽²⁾
Arc flash injury
Retained by OSHA, Kansas City office

OSHA vs Case Farms
Electrical safety program citations
Retained by OSHA, Columbus office

2017

OSHA vs Massachusetts Electric
Electrical safety program citations
Retained by OSHA, Boston office

OSHA vs QG Printing
Electrical safety program citations
Retained by OSHA, Columbus office

Goodrich vs Actuant et al ⁽¹⁾
Multimeter failure/arc flash injury
Retained for the plaintiff by The Stoddard Firm LLC
Atlanta, GA

Gottier vs Coastal et al ⁽¹⁾
Electrostatic shock injury
Retained for the plaintiff by Osborn Machler
Seattle, WA

Johnson/Schultz vs CNA et al
arc flash injury
Retained for the defendant by Womble Carlyle Sandridge & Rice, LLP
Charleston, SC


Walker vs Bellmawr Manor Apartments et al ⁽¹⁾
overhead power line contact injury
Retained for the plaintiff by David S. Rochman attorney at law
Cherry Hill, NJ

US v. Jerome Lewis
residential fire
Retained for the defendant by The Law Office of Steven R. Kiersh
Washington DC

2016

Reyes vs Kazi Foods
electric shock injury
Retained for the defendant by BoltNagi PC Attorneys at Law
St Thomas, Virgin Islands

OSHA vs E.I. du Pont de Nemours Inc.
electrical lockout/tagout issue
Retained for the respondent by Dickinson Law
Des Moines, IA

Gosselin vs. PVSC ⁽¹⁾
arc flash injury
Retained for the defendant by Chasan Leyner & Lamparello, PC 
Secaucus, New Jersey

Williams vs Ideal Industries ⁽¹⁾
Multimeter failure/arc flash injury
Retained for the plaintiff by The Stoddard Firm LLC
Atlanta, GA

Estrada vs Verizon et al ⁽¹⁾
overhead power line contact fatality
Retained for the defendant by Langlois, Wilkins, Furtado and Metcalf
Cranston, RI

Gonzales vs Verizon et al
overhead power line contact injury
Retained for the defendant by Tucker, Saltzman & Dyer, LLP
Boston, MA

2015

Todd vs Tennessee Motorsports
overhead power line contact injury
Retained for the defendant by Jones, Hamilton and Lay, PLC
Dyersburg, TN

Groves vs Catalytic Technologies
electrical safety program dispute
Retained for the plaintiff by Stringam Denecky LLP
Medicine Hat, Alberta

Morant vs Merck et al
underground power line contact injury
Retained for the plaintiff by Law Firm of Robert Doig, LLC
Media, PA

Litch vs Demaria Electric et al ⁽¹⁾
arc flash injury
Retained for the defendant by Veach Carlson, LLP
Los Angeles, CA

Klinger vs Diversified Construction et al ⁽¹⁾
overhead power line contact injury
Retained for the defendant by McCormick and Priore, P.C.
Princeton, NJ

2014

Hensley vs Verizon et al
overhead power line contact injury
Retained for the defendant by Tucker, Saltzman & Dyer, LLP
Boston, MA

2013

Clement vs Pitney Bowes
electric shock fatality
Retained for the defendant by the Law Firm of Stephen M. Reck, LLC
North Stonington, CT

Sunzere vs IHC Construction Companies et al
electric shock injury
Retained for the defendant by Ford & Britton PC
St. Louis, MO

2012

US OSHA vs Delta ⁽²⁾
electrical safety program dispute
Retained by OSHA, Boston office

Frey vs Verizon
overhead power line contact injury
Retained for the defendant by Wilcox & Savage
Norfolk, VA

Clark vs Fluke et al
Multimeter failure/arc flash injury
Retained for the plaintiff by Glenda Cochran Associates
Birmingham, AL

2011

US OSHA vs US Postal Service
electrical safety program compliance
Retained by OSHA, Washington DC office

2010

Flair vs Adaptec ⁽¹⁾⁽²⁾

arc flash injury

Retained for the plaintiff by Oium, Reyen and Pryor

San Francisco, CA

Kohors vs Trane

electric shock/arc flash injury

Retained for the defendant by Thompson Coburn LLP

St. Louis, MO

2007

Munoz vs Sasol N.A.

arc flash injury

Retained for the defendant by Beverage and Diamond

Baltimore, MD

2005

Emerling vs Neimann Marcus ⁽¹⁾

Multimeter failure/arc flash fatality

Retained for the plaintiff by Power, Rogers and Smith

Chicago, IL

V. Awards

- 2024 Lifetime Achievement Award for Contributions in Electrical Safety, presented at the 2024 US Conference for Electrical Safety in Data Centers
- 2021 Outstanding Emeritus Award, presented by IEEE Industry Applications Society Petroleum and Chemical Industry Committee
- 2017 William C. Jordan Award, presented by IEEE Industry Applications Society Electrical Safety Committee
- 2013 IEEE Industry Applications Society Distinguished Service Award
- 2012 NFPA Standards Council Committee Service Award, presented by National Fire Protection Association
- 2011 Russell W. Mills Distinguished Service Award, presented by IEEE Industry Applications Society Petroleum and Chemical Industry Committee
- 2010 Harold Leviton Outstanding Service Award, presented by Electrical Safety Foundation International
- 2004 IEEE Medal for Engineering Excellence, with citation "*for pioneering development of empirical models for predicting electric arc incident energy; and development of protective clothing classes based upon layering of flame resistant fabric*" (Co-recipient with Richard Doughty and Thomas Neal)
- 2004 DuPont Engineering Excellence Award, *For contributions in Electric Power System Switchgear Incidents Intervention*
- 2004 DuPont Silver Triangle Award, "*for significant contributions in advancing electrical safety*"
- 2003 DuPont Engineering Excellence Award, *For contributions in electric arc flash hazards mitigation*
- 2002 IEEE Richard Harold Kaufmann Technical Field Award, with citation "*for advancing the development and application of electrical safety technology, standards and work practices for industrial systems*"

- 2000 named IEEE Fellow, with citation “*for contributions to improve workplace electrical safety*”
- 1999 IEEE Petroleum and Chemical Industry Electrical Safety Excellence Award, with citation “*for outstanding dedication and contributions made to advancing and accelerating the dispersion of information and knowledge impacting electrical safety*”
- 1991 DuPont Gold Plumb Bob Award, “*for significant contributions to safety and health processes in DuPont Engineering*”

VI. Memberships and Certifications

- American Society of Safety Professional, Professional Member
- Association of Asset Management Professionals, member and Certified Reliability Leader
- Board of Certified Safety for Professionals, Certified Safety Professional
- Canadian Standards Association, past member Z462 Technical Committee, *Standard for Electrical Safety in the Workplace*
- Electric Power Reliability Alliance, member
- Electrical Safety Foundation International, past member Board of Directors 1994-2014
- Fire Protection Research Foundation, member of Advisory Board
- Institute for Electrical and Electronics Engineers, Life Fellow member
- National Fire Protection Association, member and Certified Electrical Safety Compliance Professional
- Past member 1990 - 2014, National Electrical Code panel 1
- Professional Engineer, registered in Delaware #5808, Michigan #6201070043, Pennsylvania #PE09061, and Texas #136906
- Society for Maintenance and Reliability Professionals, member and Certified Maintenance and Reliability Professional
- Utility Safety & Operations Leadership Network, member and Certified Utility Safety Professional

VII. Continuing Education

- Skanwear Global Electrical Safety Conference for Data Centers; 2024, 2025
- IEEE IAS Industrial and Commercial Power Systems Conference; 1984-1996
- IEEE IAS Electrical Safety Workshop; 1992, 1995-2025
- IEEE IAS Petroleum and Chemical Industry Technical Conference; 1991- 2016, 2018, 2019, 2021, 2022, 2023
- interNational Electrical Testing Association PowerTest conference; 1989, 1991, 2011, 2016, 2018, 2024, 2025
- ASSE CSP exam preparation short course; 1993 & 2009
- ASSE short course on establishing a safety consulting practice; 2004
- International Maintenance Conference, sponsored by ReliabilityWeb.com; 2011, 2012, 2013, 2014, 2015, 2017, 2020
- American Society of Safety Engineers (ASSE) Professional Development Conference; 2000, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2016, 2024
- ASSE Risk Assessment Short Course; June 2016
- ASSE Prevention through Design Short Course; November 2018
- SEAK Expert Witness Conference and short courses; 2010, 2013, 2017, 2019
- To augment the continuing education listed above, I regularly participate in online electrical safety related webinars offering continuing education credits

VIII. Publications – Books and Book Chapters

Floyd, H.L., *Hidden Risk in Occupational Electrical Safety: Through the Lens of System Safety*, Wiley and Sons, 2026

Floyd, H.L., “Electrical Safety” book chapter, *Construction Safety Handbook 3rd ed.*, scheduled for publication 2026, American Society of Safety Professionals

IX. Publications – Peer Reviewed Papers

Floyd, H.L., *One More Thing – A Fatality and a Life Changing Injury: A Lesson In “A Lens of System Safety”*, scheduled for presentation at the 2026 IEEE Electrical Safety Workshop, March 9-13, 2026, Round Rock, TX

Floyd, H.L., *Moving Toward a Risk-Based Culture in Electrical Safety*, scheduled for presentation at the 2026 IEEE Petroleum and Chemical Industry Technical Conference, September 21-24, 2026, Philadelphia, PA

Floyd, H.L., *It’s Time to Move the Needle in Electrical Safety*, 2025 IEEE Electrical Safety Workshop, March 3-8, 2025, Jacksonville, FL

Floyd, H.L., *Likelihood of an Unlikely Event*, 2024 IEEE IAS Electrical Safety Workshop, Tucson, AZ, March 4-8, 2024

Floyd, H.L., *Through the Lens of Systems Safety: The Limitations of a Compliance Based Safety Culture and Opportunities to Reduce Electrical Injuries*, 2023 IEEE IAS Electrical Safety Workshop, Reno, NV, March 14-17, 2023

Floyd, H.L., *Reflections on a 50 Year Journey in Electrical Safety*, 2022 IEEE Petroleum and Chemical Industry Conference, Denver CO, September 26-29, 2022

Floyd, H.L., *Hidden Danger: Reducing Residual Risk in your Electrical Safety Program*, 2022 IEEE Electrical Safety Workshop, Jacksonville, FL March 7-11, 2022

Floyd, H.L., *A Balanced Scorecard of Leading and Lagging Indicators for Your Electrical Safety Program*, 2021 IEEE IAS Electrical Safety Workshop, a virtual conference, March 8-12, 2021

Floyd, H.L. and Valdes, M., *Applying Prevention Through Design Principles (PtD) in Electrical Installations*, 2020 IEEE IAS Electrical Safety Workshop, Reno Nevada, March 3-6, 2020

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Floyd, H.L., *When Maintenance Error is the Cause of Electrical Injury – Lessons from Aviation Safety*, 2019 IEEE IAS Electrical Safety Workshop, Jacksonville, Florida, March 4 - 8, 2019

Floyd, H.L., *Identifying Residual Risk: Avoiding Pitfalls to Achieve Risk ALARP*, 2018 NETA PowerTest Conference, February 28 - March 2, 2018, National Harbor, MD

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Floyd, H.L., *Potential Impact of ISO 55000 on Maintenance Critical to Electrical Safety*, 2016 NETA PowerTest Conference, March 14-16, 2016, Fort Worth, TX

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Floyd, H.L., *Managing Severity AND Frequency: Demonstrating Results in Fatality Prevention*, 2014 American Society of Safety Engineers Professional Development Conference, June 8 – 11, 2014, Orlando, FL

Floyd, H.L., *A Systems Safety Approach to Workplace Electrical Safety*, 2014 IEEE IAS/PCA Cement Industry Conference, April 8, 2014, Washington DC

Floyd, H.L., *Leading Edge Developments in Advanced Safety Management and Application to Electrical Safety*, 2014 IEEE IAS Electrical Safety Workshop, February 4-7, 2014, San Diego, CA

Floyd, H.L., *Reliability for Electrical Safety*, 2013 International Maintenance Conference, December 10-13, 2013, Bonita Springs, FL

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Floyd, H.L., *Achieving a Sustainable Reliability Program- The Potential Impact of Safety Management Systems*, 2013 Reliability 2.0 Conference, April 8-12, 2013

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Floyd, H.L., *Electrical Bonding & Grounding Critical to Operations Excellence*, 2012 Society for Maintenance and Reliability Professionals Annual Conference, October 15-28, 2011, Orlando, FL

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Floyd, H.L., *Electrical Safety for Your “Other” Employees*, 2011 American Society of Safety Engineers Professional Development Conference, Chicago, IL, June 12 – 15, 2011

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Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management*, 2010 American Society of Safety Engineers Professional Development Conference, Baltimore, Maryland, June 13 – 16, 2010

Floyd, H.L., *Making the Connection with Maintenance & Reliability*, 2010 IEEE IAS Electrical Safety Workshop, February 1-5, 2010, Memphis, Tennessee

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Floyd, H.L., *Toward a More Global Electrical Safety Standard*, 2009 IEEE IAS Electrical Safety Workshop, February 2-6, 2009, St Louis, Missouri

Floyd, H.L., *Operational Excellence and the Impact of an Effective Electrical Safety Program*, 2008 IEEE IAS Electrical Safety, Technical and Mega Projects Workshop, Edmonton, Alberta, November 19-21, 2008

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Floyd, H.L., *The Underlying Power of an Effective Electrical Safety Program*, 2008 American Society of Safety Engineers Professional Development Conference, Las Vegas, Nevada, June 9-13, 2008

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Floyd, H.L.; “Electrical Safety Activities and Opportunities in the Power Systems Engineering Committee”, *Industry Applications Magazine, IEEE*; Volume 7, Issue 6, Nov.-Dec. 2001

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XI. Conference Presentations, Webinar, and Tutorials

Floyd, H.L., “The Intersection of Electrical Safety and Reliability”, webinar scheduled for March 25, 2026, sponsored by Vector Solutions

Floyd, H.L. “Hidden Danger in Your Electrical Safety Program”, Electrical Safety and Reliability in Data Centers Conference, Chantilly, VA, October 15, 2024

Floyd, H.L., Ross, C., and Long, A., “Beyond Barriers: Rethinking PPE as the Last Line of Defense”, Electrical Safety and Reliability in Data Centers Conference, Chantilly, VA, October 15, 2024

Floyd, H.L., “Hidden Risk in Your Electrical Safety Program”, Vector Solutions webcast, June 10, 2025

Floyd, H.L. and Doherty, M., “The Most Effective Implementation of Your Electrical Safety Program”, Plant Engineering webcast, May 29, 2025

Floyd, H.L., “Electrical Safety in Construction”, Purdue University Symposium on Construction Safety, May 20, 2025

Floyd, H.L., “Causes and Effects of Arc Flash Events in Industrial and Commercial Facilities”, Marcus Evans Arc Flash Electrical Safety Conference, May 12, 2025, Perth, Australia

Floyd, H.L., “Advanced Risk Factors for Electrical Safety”, PowerTest 2025, Orlando, FL, March 10-13, 2025

Floyd, H.L., Doherty, M., Graves, R., El-Sharif, N., “”Electrical Safety Management, tutorial or the 2025 IEEE IAS Electrical Safety workshop, March 7-10, Jacksonville, FL

Floyd, H.L., “When Compliance is not Enough”, *ISHN Magazine* webinar Oct 26, 2024

Floyd, H.L., “When Compliance is not Enough”, NECA DC Chapter and IBEW Local 6 Safety Professionals’ Development Conference, Oct 22, 2024, Lanham, MD

Floyd, H.L., “Keynote Presentation – Reflections on a 50 Year Journey in Electrical Safety”, 2024 Electrical Safety in Data Centers Conference, National Conference Center, Leesburg, VA, Sept 11-12, 2024

Floyd, H.L., Long, Anthony, Steventon-Paterson, “Understanding Arc Flash and Shock PPE”, 2024 Electrical Safety in Data Centers Conference, National Conference Center, Leesburg, VA, Sept 11-12, 2024

Karki, B. and Floyd, H.L., “Preventing Arc Flash Incidents”, *Plant Engineering* webcast, July 24, 2024

Floyd, H.L., “When Compliance is not Enough”, BCSP Global Learning Summit, May 7-9, 2024

Floyd, H.L., “When Compliance is not Good Enough”, PowerTest 2024, Dallas, TX, March 2-5, 2024

Floyd, H.L., Becker, T, Hester, S., Dyer, J.D. and Balitski, V., “Electrical Safety Panel Discussion”, PowerTest 2024, Dallas, TX, March 2-5, 2024

Floyd, H.L., “Occupational Electrical Safety: Advanced Topics in Engineering and Safety Management”, IEEE Industry Applications tutorial webinar, June 28, 2023

Floyd, H.L., “Electrical Safety through the Lens of System Safety Moving Beyond a Compliance-Based Culture”, Board for Certified Safety Professionals webinar, May 30, 2023.

Floyd, H.L., “Power and Electrical Systems Maintenance”, *Plant Engineering Magazine* webinar, May 9, 2023

Floyd, H.L., *Optimizing Electrical Incident Investigations*, tutorial 2023 IEEE IAS Electrical Safety Workshop, Reno, NV, March 12-17, 2023

Floyd, H.L., Doherty, M., Graves, R., El-Sharif, N., *Electrical Safety Management*, tutorial 2023 IEEE IAS Electrical Safety Workshop, Reno, NV, March 12-17, 2023

Floyd, H.L., “Measuring Effectiveness of Your Electrical Safety Program”, *Plant Engineering Magazine* webinar presented May 3, 2022

Floyd, H.L. *Exposing Risk in Your Electrical Safety Program*, presentation at the Board for Certified Safety Professionals Global Safety Summit, May 19-21, 2022.

Floyd, H.L., *A Brief History: Celebrating 30 Years of Changing and Advancing the Electrical Safety Culture*, presented at 2022 IEEE IAS Electrical Safety Workshop, Jacksonville, FL March 7-11, 2022

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management*, tutorial, 2022 IEEE Electrical Safety Workshop, Jacksonville, FL March 7-11, 2022

Floyd, H.L., *Applying Power of Prevention through Design to Your Electrical Safety Program*, tutorial, 2022 IEEE Electrical Safety Workshop, Jacksonville, FL March 7-11, 2022

Floyd, H.L., “5 Key Steps for Your Electrical Safety Program”, *Plant Engineering Magazine* webinar May 27, 2021

Floyd, H.L., “Measure electrical safety program effectiveness - *Recent advances in use of leading indicators can reduce industry risk*”, webinar March 30, 2021, CFE Media Virtual Training Week

Floyd, H.L., “Designing Critical Electrical Infrastructure: At the Intersection of Safety & Reliability”, 2020 International Maintenance Conference, a virtual conference, December 7-10, 2020

Floyd, H.L. “Exposing Risk in Your Electrical Safety Program”, webinar, June 11, 2019, sponsored by *Plant Engineering Magazine*

Floyd, H.L., *Applying Prevention through Design to Electrical Hazards*, tutorial, 2019 IEEE IAS Electrical Safety Workshop, Jacksonville FL, March 5, 2019

Floyd, H.L., *Prevention through Design - Pushing the Envelope in Electrical Injury Prevention*, webinar sponsored by IEEE Industry Applications Society, February 20, 2019

Floyd, H.L. and Valdes, M., “Prevention through Design and Reducing Risk of Arc Flash Injury”, webinar sponsored by *EC&M Magazine*, November 29, 2018

Floyd, H.L. and Vogel, S., *What’s New with the National Electrical Safety Code*, presented at 2018 IEEE IAS Electrical Safety Workshop, March 19-23, 2018, Fort Worth, TX

Floyd, H.L., *Serious Injury & Fatality Prevention - Shifting Culture and Improving Results*, keynote presentation for Association of Electric Utility Safety Professionals Meeting, Niagara Falls, ON, March 27, 2018

Becker, T, Floyd, H.L. and Graves, R., *Electrical Safety Basics*, tutorial presented at 2018 IEEE IAS Electrical Safety Workshop, March 19-23, 2018, Fort Worth, TX

Hoagland, H. and Floyd, H.L., *The Future of Electrical Safety*, webinar sponsored by OH&S Magazine, January 24, 2018

Floyd, H.L., *Optimizing Asset Management in Design Processes – Looking Outside the Box*, 2017 International Maintenance Conference, Bonita Springs, FL, December 12-15, 2017

Floyd, H.L., “NFPA 70E-2018: The Future of Electrical Safety”, webinar sponsored by *Plant Engineering Magazine*, November 30, 2017

Floyd, H.L., *Serious Injury & Fatality Prevention - Shifting Culture and Improving Results*, ABB Safety Conference, Raleigh, NC, November 15, 2017

Floyd, H.L., *3 Quotes – 2 Stories – 1 Lesson*, Workshop on Electrical Safety in Construction, National Academy of Construction Annual Meeting, Washington, DC, October 25, 2017

Floyd, H.L., *Preventing Electrical Events – Shifting Culture and Improving Results*, 2017 Nuclear Industry Safety & Health Association Conference, Panama City, FL, July 19, 2017

Floyd, H.L., *Topics on Workplace Electrical Safety*, webinar for Versum Materials Inc., June 12, 2017

Floyd, H.L., Significant Improvement in *Fatality Prevention is Achievable: A Case History in Electrocutation Fatalities*, GM-UAW Safety and Health Conference, Detroit, MI, June 6-9, 2017

Floyd, H.L., *Energy Management and Safety: A Team Approach*, webinar sponsored by Plant Engineering Magazine Arc Flash University, May 18, 2017

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management*, tutorial, 2017 IEEE IAS Electrical Safety Workshop, January 31 – February 3, 2017. Reno, NV

Floyd, H.L. *A Checkup for Your Electrical Safety Program*, webinar sponsored by Plant Engineering Magazine Arc Flash University, April 21, 2016

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management*, tutorial, 2016 IEEE IAS Electrical Safety Workshop, March 7-11, 2016, Jacksonville, FL

Floyd, H.L., *Leading Edge Advancements in Electrical Safety Management*, presentation at ORCHSE Strategies Western Occupational Safety & Health meeting, March 1, 2016, Sonoma, CA.

Floyd, H.L. *Advanced Concepts in Occupational Electrical Safety*, webinar sponsored by IEEE Industry Applications Society, August 5, 2015

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management*, tutorial, 2015 IEEE IAS Annual Meeting, September 21, 2015, Dallas, TX

Floyd, H.L., A Systems Safety Approach to Occupational Electrical Safety, IEEE OEB IAS seminar, “Electrical Safety Essentials”, Pleasanton, CA, October 23, 2014

Floyd, H.L., *Electrical Safety Standards & Practices Worldwide*, Mercer ORC Networks, Napa, CA., November 8, 2013

Floyd, H.L., *Arc Flash Safety*, webinar sponsored by EUCI, June 4, 2013

Floyd, H.L., *Advancements in the Practice of Electrical Safety*, Southern Alberta IEEE Section Seminar, May 13-14, 2013, Calgary, AB

Floyd, H.L. *Advancing the Practice of Electrical Safety*, webinar sponsored by Plant Engineering Magazine Arc Flash University, March 8, 2013

Floyd, H.L., *Effective Hazard Controls for High Risk Tasks Breakout – Best Practice*, Fatality Prevention in the Workplace Forum, Sponsored by Indiana University of Pennsylvania Safety Sciences Department, October 5, 2012

Floyd, H.L., *Past, Present and Future Trends in Preventing Occupational Electrical Injuries*, IEEE Philadelphia Joint Chapter Power & Energy Society and Industry Applications Society, March 21, 2012

Floyd, H.L., *Safety First – Lessons for Electrical Safety and Reliability*, keynote presentation 2012 Electrical Safety, Reliability and Sustainability Conference, The Professional Electrical Apparatus Recyclers League, May 5-7, 2012, Pittsburgh, PA

Floyd, H.L., *Past, Present, and Future Trends in Preventing Occupational Electrical Injuries*, Philadelphia Joint IAS-PES Chapter Meeting, March 21, 2012

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management v 2.1*, tutorial, 2012 IEEE IAS Electrical Safety Workshop, January 30 – February 3, 2012, Daytona, FL

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management*, tutorial, 2011 IEEE IAS Pulp and Paper Industry Technical Conference, June 22, 2011, Nashville, TN

Floyd, H.L., *A Journey in Workplace Electrical Safety*, keynote address, 2011 IEEE IAS Pulp and Paper Industry Technical Conference, June 19, 2011, Nashville, TN

Floyd, H.L., *Managing Reliability Critical to Electrical Safety*, Schneider Energy & Power Distribution Conference, September 14, 2011, Chicago, IL

Floyd, H.L., “Comprehensive Solutions for Arc Flash Hazard Prevention and Mitigation”, 2011 Plant and Control Engineering Manufacturing/Automation Summit sponsored by *Plant Engineering* magazine, March 20-22, 2011

DeMonte, J., Doherty, M., Floyd, H.L., Plunknette, D., & Robinson M., *How to Start an Electrical Maintenance Program*, workshop at Solutions 2.0 Reliability & Maintenance Conference, November 8-12, 2010, Bonita Springs, FL

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management VI.1*, tutorial presented at 2010 IEEE IAS Electrical Safety Workshop, February 1-5, 2010, Memphis, Tennessee

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