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I am an expert, author, speaker and educator in occupational electrical safety. 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, and the application of technologies critical to electrical safety performance in all DuPont operations. I am an adjunct faculty member in the graduate school of Advanced Safety Engineering and Management (ASEM) at the University of Alabama at Birmingham (UAB). At UAB, I have taught Prevention through Design, Engineering Ethics, and Electrical Systems Safety which I developed and currently teach. I have published more than 90 peer reviewed papers and magazine 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 Maintenance & Reliability Professional, a Certified Reliability Leader and a registered professional engineer in Delaware. I established Electrical Safety Group, Inc. in 2001 to provide expert witness and consulting services in electrical safety matters. Areas of expertise include:

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

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For over 35 years, I have challenged the status quo of electrical safety in the workplace. I am experienced in application of human factors engineering, electrical technology, codes, standards, regulations and safety management systems in preventing occupational electrical injuries. I have been active in Institute of Electrical and Electronics Engineers (IEEE) technical committees impacting electrical safety since 1983. I have authored or co-authored more than 90 published papers and articles, and received twelve 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.

## Recent Consulting Engagements

National Institute for Occupational Safety and Health (NIOSH)  
Development of Prevention through Design modules for occupational electrical hazards  
2018

Skyword Inc.  
Technical contributor to Cintas *Ready for the Workday* media campaign  
2016 - 2017

University of Alabama at Birmingham  
Department of Professional Studies  
Development of certificate program in Electrical Safety Management  
2015-16

DuPont Sustainable Solutions  
Consulting in occupational electrical safety management and Serious Injury & Fatality Prevention  
2014 -

University of Alabama at Birmingham  
Advanced Safety Engineering and Management  
development of graduate school course ASEM 628 Electrical Systems Safety  
2014

U.S. Dept of Defense  
Safety Oversight Committee Electrical Safety Working Group  
2013 - 2014

## Expert Witness Engagements

<sup>(1)</sup> provided deposition testimony    <sup>(2)</sup> provided trial testimony

### 2018

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

Patrone vs TBD  
Electric shock injury  
Retained by the plaintiff by Weik, Nitsche & Dougherty, LLC  
Wilmington, DE

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

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

OSHA vs Jacobs Field Services <sup>(2)</sup>  
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 TBD  
multimeter/arc flash injury  
Retained for the plaintiff by The Stoddard Firm LLC  
Atlanta, GA

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

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

Walker, et al vs Bellmawr Manor Apartments et al<sup>(1)</sup>  
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 defendant by Dickinson Law  
Des Moines, IA

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

Williams vs Ideal Industries <sup>(1)</sup>  
multimeter/arc flash injury  
Retained for the plaintiff by The Stoddard Firm LLC  
Atlanta, GA

Estrada vs Verizon et al <sup>(1)</sup>  
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 issue  
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 <sup>(1)</sup>  
arc flash injury  
Retained for the defendant by Veach Carlson, LLP  
Los Angeles, CA

Klinger vs Diversified Construction et al <sup>(1)</sup>  
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,

## 2012

US OSHA vs Delta <sup>(2)</sup>  
electrical safety program issue  
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/arc flash injury  
Retained for the plaintiff by Glenda Cochran Associates  
Birmingham, AL

## 2011

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

## 2010

Flair vs Adaptec <sup>(1) (2)</sup>  
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 <sup>(1)</sup>  
multimeter/arc flash injury  
Retained for the plaintiff by Power, Rogers and Smith  
Chicago, IL

## Awards

- 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 “*

### Memberships and Certifications

- American Society of Safety Engineers, Professional Member
- Board for Certified Safety for Professionals, Certified Safety Professional
- Canadian Standards Association, member
  - Z462 Technical Committee, Standard for Electrical Safety in the Workplace
- Electrical Safety Foundation International, past member Board of Directors
- Fire Protection Research Foundation, member of Advisory Board
- Institute for Electrical and Electronics Engineers, Life Fellow member
- National Fire Protection Association, member
  - Past member, National Electrical Code panel 1
  - Certified Electrical Safety Compliance Professional
- Professional Engineer, registered in Delaware
- Society for Maintenance and Reliability Professionals, member and Certified Maintenance and Reliability Professional
- Association of Maintenance Professionals, member and Certified Reliability Leader

### Publications – Peer Reviewed Papers

Floyd, H.L. & Floyd, A.H.L., *Recognizing Vulnerability, Understanding Likelihood and Reducing Risk from Electrical Hazards*, scheduled for presentation at the 2019 IEEE IAS Electrical Safety Workshop – Costa Rica, May 22 - 24, 2019

Floyd, H.L., *When Maintenance Error is the Cause of Electrical Injury – Lessons from Aviation Safety*, scheduled for presentation at the 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

Floyd, A H.L. and Floyd, H.L., *Sharpening the Focus on Residual Risk: Psychology of Warnings, Administrative Controls and PPE*, 2017 IEEE IAS Electrical Safety Workshop, January 28 – February 3, 2017, Reno, NV

Mazury D., Floyd, H.L., *Serious Injury & Fatality Prevention and Operational Risk Management*, American Society of Safety Engineers Safety 2016 Conference, June 26-29, 2016, Atlanta GA

Floyd, H.L., *A Misconception We Should Eliminate*, 2016 IEEE IAS Electrical Safety Workshop, March 7-11, 2016, Jacksonville, FL

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

Floyd, H.L., *Guide to Applying Hierarchy of Controls to Electrical Hazards*, 2015 IEEE IAS Electrical Safety Workshop, January 24-31, 2015, Louisville, KY

Floyd, H.L., *Reliability for Electrical Safety*, 2014 International Maintenance Conference, December 8 - 11, 2014, Daytona Beach, FL

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

Floyd, H. L. and Cole, B.C., *Significant Improvement in Fatality Prevention is Achievable*, American Society of Safety Engineers Fatality and Severe Loss Prevention Symposium, San Diego, CA, November 21-22, 2013

Floyd, H.L., *Demonstrating Results in Fatality Prevention*, 2013 National Safety Council Congress, Chicago, IL, September 28 – October 4, 2013

Floyd, H.L., Manson, S., Hughes, R. and Kirby, R., *Best Practices for Motor Control Center Protection and Control*, 2013 IEEE IAS Petroleum and Chemical Industry Technical Conference, Chicago, IL, September 16-18, 2013

Floyd, H.L. and Cole, B.C., *20 Years Later: Creating a Continuous Improvement Environment for Electrical Safety*, 2013 IEEE IAS Petroleum and Chemical Industry Technical Conference, Chicago, IL, September 16-18, 2013

Floyd, A.H.L. and Floyd, H.L., *The Value of Vulnerability: How to Help your Workers Realize Their Risk*, 2013 American Society of Safety Engineers Professional Development Conference, Las Vegas, NV, June Denver, CO, June 24 – 27, 2013

Floyd, H.L. and Johnson, B.C., *A Global Approach to Managing Risks of Arc Flash Hazards*, 2013 PCIC Europe Conference, May 28-30, 2013, Istanbul, Turkey

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

Floyd, A.H.L. and Floyd, H.L., *Cultural Drift and the Occlusion of Electrical Safety*, 2013 IEEE IAS Electrical Safety Workshop, March 11-15, 2013, Dallas, Texas

Floyd, H.L., *Lessons in Assuring a Sustainable Program*, 2012 International Maintenance Conference, December 4-7, 2012, Bonita Springs, FL

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

Floyd, H.L., *ANSI Z10 and Advancements in Electrical Safety Management*, 2012 American Society of Safety Engineers Professional Development Conference, Denver, CO, June 3 – 5, 2012

Floyd, H.L., *Facilitating Application of Electrical Safety Best Practices to Your “Other” Employees*, 2012 IEEE IAS Electrical Safety Workshop, January 30-Feb 3, 2012, Daytona, Florida

Floyd, H.L., *Analyzing Reliability for Electrical Safety*, 2011 International Maintenance Conference, December 5-8, 2011, Bonita Springs, FL

Floyd, H.L., *Managing Reliability for Electrical Safety*, 2011 Society for Maintenance and Reliability Professionals Annual Conference, October 17-20, 2011, Greensboro, NC

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

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., *From the Brink of Disaster – Lessons for Electrical Safety and Reliability*, keynote presentation at PowerTest 2011 Electrical Safety & Maintenance Conference, February 21-21, 2011, Washington DC

Floyd, H.L., *Injury Potential from Electrostatic Discharge*, 2011 IEEE IAS Electrical Safety Workshop, January 24-28, 2011, Toronto, OT

Fayard, R.S., Floyd, H.L., Staat, D., Sullivan P.S., & Thornton, E., *Maintenance Strategies for a New Era in Electrical Safety*, 2010 IEEE IAS Petroleum and Chemical Industry Committee Technical Conference, San Antonio, TX, September 20 - 23, 2010

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

Floyd, H.L., *Closing the Gaps in Arc Flash Hazard Mitigation - A Review of US, Canada, and EU Standards*, 2009 IEEE IAS Annual Meeting, Houston, Texas, October 5 – 8, 2009

Floyd, H.L., *Potential Impact of ANSI Z10 and CSA Z1000 On Reducing Electric Shock and Arc Flash Injuries*, 2009 IEEE IAS Petroleum and Chemical Industry Committee Technical Conference, Anaheim, California, September 14 -17, 2009

Floyd, H.L., *A Guide for Designing and Implementing Arc Flash Hazard Mitigation*, 2009 American Society of Safety Engineers Professional Development Conference, San Antonio, Texas, Las Vegas, Nevada, June 28 – July 1, 2009

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

Floyd, H.L., Liggett, D.P., *The NIOSH "Prevention through Design" Initiative Applied to Electrical Hazards in Construction*, 2008 IEEE IAS Petroleum and Chemical Industry Committee Technical Conference, Cincinnati, Ohio, September 22-25, 2008



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

Aeiker, J., Doan, D.R., Floyd, H.L., Irwin C., Tomiyoshi, L., Wu, C.T., *Electrical Safety Program Impact on Process Safety Performance*, 2008 PCIC-Europe Conference, Wiemar, Germany, June 10-12, 2008

Floyd, H.L., *The NIOSH "Prevention through Design" Initiative*, 2008 IEEE IAS Electrical Safety Workshop, March 2008, Dallas, TX

Capelli-Schellpfeffer, M.; Floyd, H.L.; Golding, A.; Jamil, S.; *Human Factors in Electrical Safety*, 2007 IEEE IAS Petroleum and Chemical Industry Technical Conference, September 2007, Calgary, AB

Doan, D.R.; Fannon, J.S.; Floyd, H.L., Scarborough, M., *Railroad Tracks as a Potential Source of Ignition in Hazardous (Classified) Locations*, 2007 IEEE IAS Petroleum and Chemical Industry Technical Conference, September 2007, Calgary, AB

Floyd, H.L.; *Arc Flash Hazard Reduction: Learnings from the IEEE Petroleum and Chemical Industry Committee*; 2007 IEEE IAS/PCA Cement Industry Technical Conference; April 2007; Charleston, SC

Floyd, H.L.; Doan, D.R.; *Arc Flash Hazard Assessment and Mitigation for the Safety Professional*; 2006 American Society of Safety Engineers Professional Development Conference; June 2006; Seattle, WA

Floyd, H.L.; Doan, D.R.; Wu, C.T.; Lovasic, S.L.; *Arc Flash Hazards and Electrical Safety Program Implementation*; IEEE Industry Applications Society Annual Meeting. Conference Record of the 2005, Volume 3, 2-6 Oct. 2005

Doan, D.R.; Floyd, H.L.; Neal, T.E.; Comparison of Methods for Selecting Personal Protective Equipment for Arc Flash Hazards; *Industry Applications, IEEE Transactions on*; Volume 40, Issue 4, July-Aug. 2004

Eastwood, K.; Liggett, D.P.; Bried, R.; Floyd, H.L.; The PCIC and Electrical Safety; *IEEE Industry Applications Magazine*, Volume 10, Issue 3, May-Jun 2004

Floyd, H.L.; *How Does Your Electrical Safety Program Stack Up to NFPA70E?* 2004 American Society of Safety Engineers Professional Development Conference; June 2004; Phoenix, AZ

Floyd, H.L.; Andrews, J.J.; Capelli-Schellpfeffer, M.; Liggett, D.P.; *An Overview of the State-of-the-Art in Electrical Safety Technology, Work Practices and Management Systems*; Pulp and Paper Industry Technical Conference, 2003. Conference Record; 16-20 June 2003

Floyd, H.L.; Andrews, J.J.; Capelli-Schellpfeffer, M.; Neal, T.E.; Saunders, L.F.; *Electrical Safety - State-of-the-Art In Electrical Safety Technology, Work Practices and Management Systems*; 2001 American Society of Safety Engineers Professional Development Conference; June 2001; Anaheim, CA

Floyd, H.L., Halpin, S.M., Saunders, L.F., *An Overview of the IEEE Color Books*, 2000 IAS Annual Meeting, October 2000, Rome, Italy

Doughty, R.L.; Neal, T.E.; Floyd, H.L.; Predicting Incident Energy to Better Manage the Electric Arc Hazard on 600-V Power Distribution Systems; *Industry Applications, IEEE Transactions on*; Volume 36, Issue 1, Jan.-Feb. 2000

Floyd, H.L., Jamil, S., and Pace, D.A., Effective Implementation of Electrical Safety Regulations and Standards, *IEEE Industry Applications Magazine*, Jan/Feb 1999

Capelli-Schellpfeffer, M., Eastwood, K., Floyd, H.L., and Liggett, D. P., How We Can Better Learn from Electrical Accidents, *IEEE Industry Applications Magazine*, May/June 1999

Floyd, H.L. and Koval, D.O., Human Element Factors Affecting Reliability and Safety, *IEEE Transactions on Industry Applications*, March-April 1998

Floyd, H.L. and Nenninger, B.J., Personnel Safety and Plant Reliability Considerations in the Selection and Use of Voltage Test Instruments, *IEEE Transactions on Industry Applications*, March/April 1997

Kent, C.M. and Floyd, H.L., *Managing the Other Electrical Hazard: Electric Arcs*, American Society of Safety Engineers Conference Safety Technology 2000, Orlando, FL; June 1995

Cole, B.C., Doughty, R.L., Floyd, H.L., Jones, R.A., Whelan, C.D., Creating a Continuous Improvement Environment for Electrical Safety, *IEEE Transactions on Industry Applications*, May/June 1994

Floyd, H.L., Whelan, C.D., *Electrical Safety for Supervision*, 1991 NETA Conference, San Antonio, Texas, March 22, 1991.

Floyd, H.L., Reducing Human Errors in Industrial Electric Power Systems Operation - Part 1: Improving System Reliability, *IEEE Transactions on Industry Applications*, vol 1A-22, No. 3, May/June 1986

### **Publications - Magazine Articles**

Zind, T., Floyd H.L., et al, "Shock Therapy", *Electrical Construction & Maintenance Magazine*, October 2018

Druley, K., Floyd, H.L., Hoagland, H., and Roberts, D., "NFPA 70E: A Look at the 2018 Edition", *Safety & Health Magazine*, March 2018

Floyd, H.L., "NFPA 70E-2018: The Future of Electrical Safety", *Plant Engineering Magazine*, October 2017

Manson, S., and Floyd, H.L., "How to Improve the Safety of Your Motor Control Centers", *Plant Services Magazine*, October 2016

Floyd, H.L., "UpTime Catches up with Lanny Floyd", *UpTime Magazine*, June 2013

Lamba, A, et al (Floyd, H.L. contributor to article), "Prevention through Design – Practice, Designing Out the Hazards in the Real World", *Professional Safety, Journal of the American Society of Safety Engineers*; Volume 58, No. 1; January 2013, pp 34-40

Floyd, H.L., "Make the Connection Relating electrical-safety maintenance to reliability", *IEEE Industry Applications Magazine*, vol. 18, no. 6, Nov/Dec 2012, pp 74-81

Floyd, H.L., "Prevention Is Better Than a Cure - Electric shock injuries from static electricity discharges", *IEEE Industry Applications Magazine*, vol. 18, no. 3, May/June 2012, pp 57-50

Doan, D.R., Floyd, H.L., Jordan, W.C., "Milestones in Advancing Protection from Electric Arcs", *IEEE Industry Applications Magazine*, vol. 17, no. 4, July/August 2011, pp 7-9

Floyd, H.L., "Focusing RCM on Equipment Critical to Electrical Safety", *UpTime Magazine*, December 2010

Floyd, H.L., "Arc Flash: Designing & Implementing an Effective Mitigation Program", *Professional Safety, Journal of the American Society of Safety Engineers*; Volume 55, No. 11; November 2010

Floyd, H.L., Lynch, P., Talka, D., Wiggins, S., Young, B.W., "MEP Roundtable – Safety First", *Consulting – Specifying Engineer*, pp8-11, April 2010

Floyd, H.L., "Creating a Team of Experts", *UpTime Magazine*, June /July 2009

Floyd, H.L., "The Critical Role of Safety Management Systems", July/August 2009 issue of *Electrical Line Magazine - Electrical Safety Measures Supplement*

Floyd, H.L.; "Keep Young Electrical Engineers Grounded"; *Consulting – Specifying Engineer*, pp32-35, February 2008

Floyd, H.L.; Doan, D.R.; "Electric Arc Hazard – Understanding Assessment and Mitigation"; *Professional Safety, Journal of the American Society of Safety Engineers*; Volume 52, No. 1; January 2007

Floyd, H.L.; "Getting the Most Out of the IAS – Some Things I've learned", *Industry Applications Magazine, IEEE* Volume 12, Issue 6, Nov-Dec 2006

Floyd, H.L.; "Getting the Most Out of the IAS – Your Personal Professional Community", *Industry Applications Magazine, IEEE* Volume 12, Issue 5, Sept-Oct 2006

Floyd, H.L.; "Getting the Most Out of the IAS – Reflections on our Mission and Vision", *Industry Applications Magazine, IEEE* Volume 12, Issue 4, Jul-Aug 2006

Floyd, H.L.; "Getting the Most Out of the IAS – Through Membership Growth", *Industry Applications Magazine, IEEE* Volume 12, Issue 3, May-June 2006

Floyd, H.L.; "Getting the Most Out of the IAS – Through Involvement in IEEE Standards", *Industry Applications Magazine, IEEE* Volume 12, Issue 2, Mar-April 2006

Floyd, H.L.; "Getting the Most Out of the IAS – Managing Your IEEE Membership", *Industry Applications Magazine, IEEE* Volume 12, Issue 1, Jan-Feb 2006

Floyd, H.L.; "Getting the Most Out of the IAS – Technical Committees", *Industry Applications Magazine, IEEE* Volume 11, Issue 6, Nov-Dec 2005

Floyd, H.L.; "Getting the Most Out of the IAS – Regional Chapter Activities", *Industry Applications Magazine, IEEE* Volume 11, Issue 5, Sept-Oct 2005

Floyd, H.L.; "Getting the Most Out of the IAS – Publications", *Industry Applications Magazine, IEEE* Volume 11, Issue 4, Jul-Aug 2005

Floyd, H.L.; "Getting the Most Out of the IAS – Technical Conferences", *Industry Applications Magazine, IEEE* Volume 11, Issue 3, May-June 2005

Floyd, H.L.; "Getting the Most Out of the IAS – Awards & Recognition", *Industry Applications Magazine, IEEE* Volume 11, Issue 2, Mar-April 2005

Floyd, H.L.; "Getting the Most Out of the IEEE Industry Applications Society", *Industry Applications Magazine, IEEE* Volume 11, Issue 1, Jan-Feb 2005

Floyd, H.L.; "Electrical Safety: We Need a Few More Inventions and Radical Ideas", *Industry Applications Magazine, IEEE*, Volume 10, Issue 6, Nov-Dec 2004

Floyd, H.L.; "Electrical Safety - The 2005 IEEE IAS Electrical Safety Workshop"; *Industry Applications Magazine, IEEE*; Volume 10, Issue 5, Sept.-Oct. 2004  
Floyd, H.L.; "Look Up, Look Out For Electrical Safety!"; *Industry Applications Magazine, IEEE*; Volume 10, Issue 3, May-Jun 2004

Floyd, H.L.; "Just the Facts"; *Industry Applications Magazine, IEEE*, Volume 10, Issue 2, Mar-Apr 2004

Floyd, H.L.; "New Electrical Safety Web Site"; *Industry Applications Magazine, IEEE*; Volume 10, Issue 1, Jan-Feb 2004

Floyd, H.L.; "Electrical Safety - Arc Flash Analysis: Are We Missing the Point?"; *Industry Applications Magazine, IEEE*; Volume 10, Issue 1, Jan-Feb 2004

Floyd, H.L.; "The 2004 IEEE IAS Electrical Safety Workshop". *Industry Applications Magazine, IEEE*; Volume 9, Issue 6, Nov.-Dec. 2003

Floyd, H.L.; Doherty, M.; "The Heart and Soul of Your Electrical Safety Culture"; *Industry Applications Magazine, IEEE*; Volume 9, Issue 5, Sept.-Oct. 2003

Floyd, H.L.; "The IEEE Electrical Safety Resource Center"; *Industry Applications Magazine, IEEE*; Volume 9, Issue 4, July-Aug. 2003

Floyd, H.L.; Swencki, S.; "Accidents Always Happen to the 'Other Guy!' "; *Industry Applications Magazine, IEEE*; Volume 9, Issue 2, Mar-Apr 2003

Floyd, H.L.; "Arc Flash Hazard Protection", *NEC Digest*; April/May 2002

Floyd, H.L.; "An Invitation to IAS Members from the IEEE Product Safety Committee", *Industry Applications Magazine, IEEE*; Volume 8, Issue 6, Dec. 2002

Floyd, H.L.; "IAS Members Lead Change in 'The Other Electrical Hazard, ", *Industry Applications Magazine, IEEE*; Volume 8, Issue 4, July-Aug. 2002

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

Floyd, H.L., Whelan C.D.; "Basics for Electricians", *Plant Services Magazine*, Dec. 1992

### **Webinar, Workshop and Tutorial Presentations**

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

Floyd, H.L. and Valdes, M., "Prevention through Design and Reducing Risk of Arc Flash Injury", webinar sponsored by *EC&M Magazine*, scheduled for 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., *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., *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., 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., "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 V1.1*, tutorial presented at 2010 IEEE IAS Electrical Safety Workshop, February 1-5, 2010, Memphis, Tennessee

DeMonte, J., Doherty, M., Floyd, H.L., & Robinson M., *Managing an Electrical Maintenance Program: Where Doing Nothing is your Most Expensive (and unsafe) Option*, workshop presented at Solutions 2.0 Reliability & Maintenance Conference, November 16-19, 2009, Daytona Beach, FL

Floyd, H.L., *A Guide for Designing and Implementing Arc Flash Hazard Mitigation*, webinar sponsored by ReliabilityWeb.com and *UpTime* magazine, October 2, 2009

Crow, D.R., Doherty, M., & Floyd, H.L., *Electrical Safe Work Planning*, tutorial presented at the 2009 IEEE IAS Petroleum and Chemical Industry Committee Technical Conference, Sept 17, 2009, Anaheim, CA

Bowen, D.G., Floyd, H.L., *An Effective Electrical Safety Program*, webinar sponsored by *EHS Today* magazine, May 14, 2009

Floyd, H.L., *World-Class Electrical Safety Programs and Operational Excellence*, webinar sponsored by ReliabilityWeb.com and *UpTime* magazine, April 24, 2009

Floyd, H.L., *Tips on Integrating NFPA70E into Your Occupational Safety & Health Management System*, ST Louis Chapter ASSE Professional Development Conference, St Louis, MO, March 9, 2009

Floyd, H.L., *An Overview of NFPA70E*, City of Mesa, AZ, February 25, 2009

Floyd, H.L., *An Overview of NFPA70E*, City of Chandler, AZ, February 24, 2009

Floyd, H.L., Doherty, M., Graves, R., *Electrical Safety Management*, tutorial, 2009 IEEE IAS Electrical Safety Workshop, February 2-6, 2009, St Louis, Missouri

Floyd, H.L., *Impact of Electrical Safety on Process Safety Performance*, American Institute of Chemical Engineers CCPS-TSC Webconference Meeting, 03 February 2009

Floyd, H.L., Liggett, D.P.; Cawley, J.; *The NIOSH "Prevention through Design" Initiative Applied to Electrical Hazards in Construction*; 2008 National Occupational Injury Research Symposium, October 21 - 23, 2008; Pittsburgh, PA

Floyd, H.L., *More than Arc Flash - Designing and Implementing a State of the Art Electrical Safety Program*, tutorial presented at IEEE Industry Applications Society Annual Meeting, October 5, 2008, Edmonton, AB Canada

Doan, D.R., Floyd, H.L., Murphy, R., *Some Things We've Learned in Arc Hazard Mitigation*, National Safety Council Congress, September 19-26, 2008, Anaheim, CA

Floyd, H.L., Eads, L., *Arc Flash Avoidance and NFPA70E Compliance*, LumaSense Technologies/Mikron Infrared webcast, June 3, 2008

Floyd, H.L., *Electrical Systems Safety*, NASA Goddard Space Flight Center, May 13, 2008

Floyd, H.L., *Electrical Systems Safety*, NASA Wallops Island, April 24, 2008

Floyd, H.L., Templeton, R., *Arc Flash Safety*, Fort McMurray 3<sup>rd</sup> Annual CSSE Health & Safety Conference, May 7, 2008, Fort McMurray, AB

Floyd, H.L., *Safety Management Systems and your Electrical Safety Program - A Global Perspective*, CSA/IAPA Electrical Safety Conference, October 17-18, 2007, Calgary, AB

Floyd, H.L., *Electrical Safety*, 2007 Energy, Power Distribution and Control Conference, September 2007, Raleigh, NC

Floyd, H.L., Fox, G., Weigel, J., Arc Flash, *Plant Engineering Magazine* webcast, August 2, 2007

Floyd, H.L., *Should My Electrical Safety Program be Part of My Safety Program?*, 2007 IEEE IAS Electrical Safety Workshop; February 2007; Calgary, AB

Floyd, H.L.; *Arc Flash Events in MV and LV Power Distribution Equipment*; 2006 IEEE ESMO Conference; October 2006; Albuquerque, NM

Floyd, H.L.; Electric Arc – Assessing the Hazard and Protecting Your Workers; *Occupational Hazards Magazine* webcast; November 29, 2006

Black, C., Floyd, H.L., *Learnings from One Company's Experience in Arc Flash Hazards Mitigation*, CSA/IAPE Electrical Safety Conference, October 2006, Toronto, ON

Floyd, H.L.; *All Electric Vehicles - Electrical Safety Implications & Opportunities*, 1<sup>st</sup> IEEE Region-8 Trans-European Industry Applications Chapters Joint Workshop; June 19 - July 1, 2006; Madrid - Helsinki - St. Petersburg - Moscow

Floyd, H.L., *Imagine Electrical Safety*, GE Technology Meeting, March 14, 2006, Farmington, CT

Floyd, H.L.; *Beyond Injury Prevention – Understand the Power of Your Electrical Safety Program*; 2006 IEEE IAS Electrical Safety Workshop; February 2006; Philadelphia, PA

Floyd, H.L., Aeiker, J., Liggett, D.P., Sullivan, P.; *Integrating a State of the Art Electrical Safety Program into Your Company's Business Objectives*, 2006 IEEE IAS Electrical Safety Workshop; February 2006; Philadelphia, PA

Floyd, H.L.; *Electrical Safety as a Global Concern*; 2<sup>nd</sup> IEEE IAS Electrical Safety Workshop – Brazil; October 2005, Sao Paulo, Brazil

Floyd, H.L.; How Does Your Electrical Safety Program Stack Up to NFPA70E?, *Plant Engineering Magazine* web presentation; January 21, 2005

Floyd, H.L.; *Is My Decades Old Electrical Equipment Safe to Operate? Key Learnings from my '57 Two-Door Convertible*; 2004 IEEE Product Safety Engineering Symposium; June 2004; San Jose, CA

Floyd, H.L.; Liggett, D.P.; Capelli-Schellpfeffer, M.; Homce, G.; *Electrical Safety Facts – What We Don't Know*; 2004 IEEE IAS Electrical Safety Workshop; February 2004; Oakland, CA

Floyd, H.L.; *Emergence of Electric Arc Flash as a Unique Electrical Hazard*; IEEE IAS Baltimore Chapter, February 19, 2003; Baltimore, MD

Floyd, H.L.; *Electrical Work Zones, Task Creep, and Safe Boundaries*; 2003 IEEE IAS Electrical Safety Workshop; February 2003; Houston, TX

Floyd, H.L.; *Human Errors in Electrical Safety*; 1<sup>st</sup> IEEE IAS Electrical Safety Workshop – Brazil; October 2003, Sao Paulo, Brazil

Floyd, H.L.; *Inherently Safer Technology*; 2003 IEEE IAS Electrical Safety Workshop; February 2003; Houston, TX

Floyd, H.L.; Doan, D.A.; *Comparison of Three Methods in NFPA70E for Implementing an Arc Flash PPE Program*; 2003 IEEE IAS Electrical Safety Workshop; February 2003; Houston, TX

Floyd, H.L.; *How You Can Start Changing the Culture in Your Organization*; 2003 IEEE IAS Electrical Safety Workshop; February 2003; Houston, TX

Floyd, H.L.; *Test Before Touch*; 2002 IEEE IAS Electrical Safety Workshop, February 2002; Biloxi, MS

Floyd, H.L.; *Changing Electrical Safety Culture; How to Proceed and Get Results*; 2002 IEEE IAS Electrical Safety Workshop, February 2002; Biloxi, MS

Floyd, H.L., Saunders, L.F.; *Techniques to Aid Recognizing the Electrically Safe Working Boundary*; 2001 IEEE IAS Electrical Safety Workshop; February 2001; Toronto, ON

Floyd, H.L., Hesla, E.R.; *Applying the IEEE Yellow Book – IEEE Guide to Maintenance, Operations, and Safety of Industrial and Commercial Power Systems*; National Academy of Engineering; October 2000; Rome, Italy

Floyd HL, Eastwood K, Bonner S, Jamil S, Liggett DP, Pace DA, Satish C.; *Key Learnings From Electrical Safety Workshops Sponsored by IEEE 1992-2000*; 2000 National Occupational Injury Research Symposium, October 17 – 19, 2000; Pittsburgh, PA

Floyd, H.L.; *Lessons Learned in Arc Flash Protection*; 2000 Texas Chemical Council Safety Seminar; June 21, 2000; Galveston, TX

Floyd, H.L.; *Human Error in Electrical Safety Exposure*; 2000 IEEE IAS Electrical Safety Workshop; February 2000; San Antonio, TX

Floyd, H.L.; *Electrical Safety Implications of Y2K*; 1999 IEEE IAS Electrical Safety Workshop; February 1999; San Diego, CA

Floyd, H.L.; *IEEE Yellow Book Review*; 1999 IEEE IAS Electrical Safety Workshop; February 1999; San Diego, CA

Floyd, H.L.; Liggett, D.P.; *Electrical Safety Employee Training*; 1999 IEEE IAS Electrical Safety Workshop; February 1999; San Diego, CA

Floyd, H.L., Andrews, J.J.; *IEEE Yellow Book Review*; 1998 IEEE IAS Electrical Safety Workshop; February 1998; Indianapolis, IA

Floyd, H.L.; *Managing Electrical Safety during Organizational Change*; 1998 IEEE IAS Electrical Safety Workshop; February 1998; Indianapolis, IA

Floyd, H.L.; *Tools to Simplify Protective Clothing/Equipment Selection*; 1998 IEEE IAS Electrical Safety Workshop; February 1998; Indianapolis, IA

Floyd, H.L.; *Preventing Electrical Injuries in Industrial Environments*; 3rd International Conference on Electrical Injury & Safety; October 26-28, 1998; Shanghai, PRC

Floyd, H.L.; Jones, R.A.; *Changing the Electrical Safety Culture*; 1997 IEEE IAS Electrical Safety Workshop; February 1997; San Antonio, TX

Floyd, H.L.; *Review of Accident Case Histories*; 1997 IEEE IAS Electrical Safety Workshop; February 1997; San Antonio, TX

Floyd, H.L., Pace, D.A., Jamil, S.; *Electrical Safety Overview - Effective/Implementation of Electrical Safety Regulations and Standards*; 1997 IEEE IAS Electrical Safety Workshop; February 1997; San Antonio, TX

Floyd, H.L.; *Electrical Safety Programs*, 1996 IEEE IAS Electrical Safety Workshop; February 1996; San Antonio, TX

Floyd, H.L.; *Electrical Injuries Research*; 1996 IEEE IAS Electrical Safety Workshop; February 1996; San Antonio, TX

Floyd, H.L., Lockerd, C.R.; *Electrical Accident Case Histories*; 1995 IEEE IAS Electrical Safety Workshop; February 1995; San Antonio, TX

Floyd, H.L.; *Training - Methods & Resources*; 1992 IEEE IAS Electrical Safety Workshop; March 1992; Dallas, TX

Doughty, R.L., Epperly, R.A., Floyd, H.L., Jones, R.A., Stewart, J., *Electrical Safe Work Practices*, tutorial presented for the Chemical Manufacturers Association Codes and Standards Task Group, February 26, 1992, Washington, DC

Doughty, R.L., Epperly, R.A., Floyd, H.L., Jones, R.A., Stewart, J., *Electrical Safe Work Practices*, tutorial presented at the 1991 IEEE IAS Petroleum and Chemical Industry Committee Technical Conference, September 12, 1991, Toronto, ON