Dennis B. Brickman

PE

Principal

Dennis Brickman is a Principal at ESi and an industry veteran with over 40 years of mechanical engineering and materials science experience. Mr. Brickman is a staunch safety advocate with a passion for cutting through complexity and deploying technical expertise, tools and industry best practices in service to his clients.

Mr. Brickman applies strong technical knowledge and real-world understanding of the design and manufacture of consumer products to help clients resolve safety concerns across the full product lifecycle. Mr. Brickman is frequently engaged to assess industrial and commercial equipment and facilities and provide guidance on product risk assessment, human factors and ergonomics, safeguarding, experimental testing, safety standards, safety training, and warnings and instructions. Mr. Brickman has specialized expertise in the safety of children's products, outdoor power equipment, tree care machinery, elastic cord products, and automatic door sensor systems.

In addition to chairing over 20 conference sessions, Mr. Brickman has been invited to speak at forums hosted by the U.S. Consumer Product Safety Commission, the American Society for Testing and Materials, the Safety Institute, and the Human Factors and Ergonomics Society. He has also performed interlock and lockout/tagout research for the National Institute of Occupational Safety and Health and developed training modules for OSHA. Mr. Brickman's studies have been presented in regulatory proceedings, safety standards development committee meetings, equipment manufacturer forums, and litigation proceedings.

Mr. Brickman has published dozens of peer-reviewed technical papers, including Safety Hierarchy issued by The National Safety Council. He has also provided expert testimony in product liability, premises liability, class action, patent, and intellectual property matters pending before both state and federal courts.

Education

MS, Mechanical Engineering. Northwestern University. 1989

BSE, Mechanical Engineering and Materials Science (Magna Cum Laude). Duke University. 1984

Contact Information

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ESi Aurora

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Aurora, IL 60504

Areas of Specialization

- Mechanical Engineering Systems
- Accident Analysis & Reconstruction
- Human Factors & Ergonomics
- Safety Engineering & Risk Assessment
- Product Safety & Design
- Experimental Testing & Failure Analysis
- Warnings & Instruction Manuals
- Safety Standards & Literature Research

Licenses & Certifications

- State of Alabama P.E. License 28148-E
- State of Arkansas P.E. License 15796
- State of Illinois P.E. License 062-045746
- State of South Carolina P.E. License 36099
- State of New Jersey P.E. License 24GE05857900
- State of New York P.E. License 106684
- State of Pennsylvania P.E. License PE099826
- Forklift Operator Safety Training
- Chipper Operator Specialist
- OSHA 501 Trainer, Occupational Safety and Health Standards for General Industry
- OSHA 510 Standards for Construction Industry
- AWPT Operator
- Powered Industrial Truck Operator Safety Training
- IPAF AWP Operator Training
- Concrete Power Buggy Safety Training
- Fall Protection Safety for the Competent Person
- Mobile Elevating Work Platform Equipment (MEWP) Operator Training
- OSHA Industrial Sweeper and Scrubber Safety Training
- Ground Operations 2 Chipper Specialist
- OSHA Snow Plow Safety Training

Positions Held

Engineering Systems Inc., Aurora, Illinois

- Principal, 2014 – Present
- Senior Managing Consultant, 2010–2014
- Senior Consultant, 2005–2010

Triodyne, Inc., Northbrook, Illinois

- Mechanical Engineering Safety and Design Consultant, 1985–2005
- Assistant Mechanical Engineering Safety and Design Consultant, 1983–1984

Continuing Education

- **"Safety/Ergo Modeling & Design," "Ergonomics & Human Factors," "Occupational Health & Safety," and "Occupational Health & Safety and Ergonomics & Human Factors"** – International Occupational Ergonomics and Safety Conference (IOESC), 2026
- **"Work Truck Week,"** – NTEA, 2026
- **"Hindsight: Best Practices for Documentation and Communications in Light of Recent CPSC Enforcement Trends," "Welcome & Foundations for Product Safety Session 1: The Compliance Landscape Explained," "Recall Effectiveness Roundtable: From Planning to Action," "Product Safety Eras Tour (1972-2007, 2008-2024, 2025-Beyond," "Age Grading Practical Strategies and Implications in the Virtual Age," "Product Liability and Product Regulation: Comparing the Systems that Hold Products Accountable," "efiling: Clock is Ticking," "From Gaps to Industry Guidelines: Research, Testing, and Standards for Under-Regulated Products," "Discussion and Analysis of Regulatory Environment," "From Risk to Recall: A Practical Framework to Guide the 'Whether, When, and How' of Reporting Decisions," "Global Regulator Session 1," "Risk Assessment Harmonization: Challenges and Strategic Implications," "As Worldwide Product Safety Laws Evolve: Is the U.S. Falling Behind?," "From Crisis to Collaboration: Strengthening Recall Effectiveness Together," "The Unknown Knowns: What AI Finds Hiding in Plain Sight," "Hidden Hazards, Overlooked Consumers: Closing the Safety Gap for Older Adults," and "From Tragedy to Transformation: Safeguarding Tomorrow's Shoppers,"** – ICPHSO, 2026
- **"Safety/Ergo Modeling & Design," "Occupational Health & Safety I," "Biomechanics & MSKs," "Ergonomics & Human Factors" and "Safety/Ergo Modeling & Design"** – International Occupational Ergonomics and Safety Conference (IOESC), 2025
- **"Struck-By Symposium Webinar"** – OSHA Training Institute Education Center, 2025
- **"The Art and Science of Selling Occupational Ergonomics," "Occupational Health & Safety I," "Safety/Ergo Modeling & Design," "Ergonomics & Human Factors," and "Connected Worker Tech: Because Safety, Productivity, and Efficiency are Interdependent"** – IOESC, 2024
- **"Introduction to Arboriculture Safety"** – Tree Care Industry Association (TCIA), 2023
- **"Industry Safety Update"** – TCI Expo, 2023
- **"Human Factors and Ergonomics I & II," "Standing Work with Varying Walking Situations," "Occupational Safety and Health I & II," "Manufacturing, Reliability, and Systems Engineering I & II"** – IOESC, 2023
- **"Ergonomics: An OSHA Review," "Biomechanics & MSKs," "Context Matters: Considerations for Applying Workplace Health and Safety Frameworks," "Occupational Health & Safety Case Studies," and "Ergonomics & Human Factors"** – IOESC, 2022
- **"Vibration and Occupational Hazards," "Occupational Health and Safety: Case Studies," and "Safety/Assistive Product and Evaluation"** – IOESC, 2021

- **"Navigating Consumer Product Safety & Compliance During a Global Pandemic," "A Global View of Product Safety Policy and Enforcement in 2021," "Biomechanics Research to Improve Product Safety," "Sounds Good But Will It Work? Using Scientific Methods to Objectively Evaluate Product Warnings and Safety Information for Cutting Edge Products and Those Without Mandatory Warnings," "Mitigating the Risk of Enforcement Action at the CPSC," "CPSC Keynote Presentation," "What to Expect from Compliance in FY21," "Ask the CPSC Session," "Dynamic Communications with the CPSC," "What is 'Misuse?'" and "Testing Comparison US-EU"** – ICPHSO, 2021
- **"Occupational Safety and Health," "Prevention Through Design I & II," "Virtual/Augmented Reality: Wearable Technology," and "Application of Ergonomics"** – IOESC, 2019
- **"Machine Safeguarding Seminar" and "Risk Control Agricultural Equipment Guarding Damage/Removal"** – American Society of Safety Professionals (ASSP), 2019
- **"CPSC Lab Tour," "Reverse Recall: An Analysis of Product Recall from End to Beginning," "A Computer Generated Reality is Worth 1000 Words," "CPSC Keynote Presentation," "CPSC Plenary Session: #ASKCPSC," "CPSC Plenary Session: Compliance Programs and FOIA," "Two Philosophies: One Goal," "Technology: A Powerful Tool for Improving Recall Effectiveness," and "Think Like a Consumer: Proactive Safety Engineering"** – ICPHSO, 2019
- **"Webinar: Risk Management Tools for Safety Professionals"** – ASSP, 2018
- **"Human Dimensional Variability: A Safety Problem and Opportunity," "Occupational Ergonomics, Biomechanics and Work Physiology," "Workplace Safety and Health," "Case Studies and Applications," and "From Research to Design: Footwear and Ladder Design for Preventing Falling Accidents"** – International Occupational Ergonomics and Safety Conference, 2018
- **"Machinery Safety Virtual Symposium"** – American Society of Safety Engineers (ASSE), 2018
- **"Neck Biomechanics for Ergonomics: Lessons Learned and Challenges Ahead," "Prevention Through Design and Reconstruction," "Employee Health and Wellness," "Risk Assessment and Risk Perception," "Education/Training: Ergonomics, Safety and Sustainability," "Panel Discussion: Research to Practice to Research," and "From Patient Handling to Materials Handling: A Journey of an Ergonomist"** – IOESC, 2017
- **"Failure Analysis: Case Studies and Expert Panel"** – Society of Plastics Engineers (SPE), 2017
- **"Arborist Safety: May the Odds Always Be in Your Favor"** – TCI Expo, 2016
- **"The Ergonomics of Ergonomics: Have We Missed the Obvious?" "Case Studies and Applications I," "Case Studies and Applications II," "Occupational Ergonomics," and "A Picture is Worth 1000 Words: Demonstrative Exhibits in Litigation"** – IOESC, 2016
- **"Failure Analysis & Prevention" and "Plastic Pipe & Fittings: Failure Prevention and Slow Crack Growth"** – SPE, 2016

- **"Systems Design, Modeling and Simulation for Defense Applications," "Process Modeling and Analysis," and "Problem Solving"** – Department of Systems Engineering, 2016
- **"Designing for Children: What Do Human Factors Professionals Need to Know?" "Modeling Problems in the Workplace: Human Reliability, Errors, and Workload," "Interactive Posters," and "Training in Applied Settings"** – Human Factors and Ergonomics Society, 2015
- **"A System's Approach for Evaluating and Managing Patient Transfer in a Large Hospital," "Case Studies and Applications," "Ergonomics in Construction Industry," and "Other Topics in Ergonomics & Safety"** – IOESC, 2015
- **"Safety Engineering & Management and Risk Analysis" and "Forensic Applications & Failure Analysis I"** – ASME (American Society of Mechanical Engineers), 2014
- **"Human Factors & Ergonomics I," "Quality Control in IE I," and "Observations from Over 25 Years in Engineering Education and Administration"** – Society for Industrial and Systems Engineering, 2014
- **"Challenges in Major Limb Re-plantation: Treatment After Protective Measures Have Failed," "Safety I," "Ergonomics in Construction Industry," and "Ergonomics II"** – IOESC, 2014
- **"Product Liability Seminar"** – AEM, 2014
- **"A Systems Approach to Civil Works Transformation," "Ergonomics 1," and "Safety & Warnings"** – Society for Industrial and Systems Engineering, 2013
- **"The Concussion Crisis in Athletics: What Have We Learned Since 2007," "Traumatic Brain Injury: From Prevention to Rehabilitation," "Medical Errors, Prevention and Recovery," "Consumer Product Safety Commission," "Current Transportation Safety Issues," "UTV/ATV Issues," "Home Safety and Children," and "Drowning Prevention: Emerging Strategies and Interventions"** – Safety Institute, 2013
- **"A Decade of Challenges and Opportunities in Occupational Ergonomics" and "Safety, Biomechanics, Human Factors, Accident Reconstruction, and Comparison of Ergonomic Process Implementation in Four U.S. Corporations"** – IOESC, 2013
- **"Aging in the 21st Century: Opportunities and Challenges," "Human Performance, Healthcare and Forensic Ergonomics," "Ergonomic Issues," and "Reflections of a Pioneer in Ergonomics"** – IOESC, 2012
- **"Energy and Water: Two Vital Commodities," "National Occupational Research Agenda Initiatives for Safety and Health in Manufacturing," "Safety Issues and Applications," "Safety in Transportation," "Risk Analysis and Reliability Methods," and "Forensic Evaluation of Safety"** – ASME, 2011
- **"ANSI Z133 and The Everyday Tree Trimmer"** – TCI Expo, 2011
- **"Product Design and Testing," "Techniques and Methodology," "Ergonomics and Photography," "Ergonomic Applications and Assessment II," and "Safety Issues"** – IOESC, 2011
- **"Tree Care Safety Forum"** – TCIA, 2011

- **"Risk Analysis Topics IV," "Bobsled Special Plenary Presentation," "Mechanism Dynamics," and "Safety Engineering Topics"** – ASME, 2010
- **"Health and Safety Issues in the Hospitality Industry and How They've Changed," "Ergonomic Applications and Assessment I," "Safety Issues," and "Connect & Communication"** – IOESC, 2010
- **"General Safety Engineering," "Auto & Truck Safety and Consumer Product Safety," "Risk Analysis, Reliability Methods & Applications," and "Risk Analysis for Multi-Hazards"** – ASME, 2009
- **"30 Years in Ergonomics," "Ergonomic Applications and Assessment I," "Safety Issues I," "Falling Injuries in the Aged," "Emerging Trends in Australian Construction Safety: Opportunities for Safety Professionals," "Slips and Falls," and "Construction Symposium II"** – IOESC, 2009
- **"The ABC's of Human Behavior and Safety Performance"** – TCI EXPO, 2008
- **"Injury Mitigation in Rollovers," "Reliability Engineering II," "Design Improvements for Auto Safety," "Product and Process Safety," and "Risk-Informed Decision Making"** – ASME, 2008
- **"Successful Training Techniques"** – Northern Illinois University, 2008
- **"Safety at the Walt Disney Corporation, Risk Analysis I & II," "Product or Process Safety I," and "Safety Engineering I & II"** – ASME, 2007
- **"Pedestrian Vehicle Traffic Collisions"** – Northwestern University Center for Public Safety, 2006
- **"A Risk Case History: Decisions on the Hurricane Protection System in New Orleans Prior to Katrina," "Reliability Management and Applications," "Mobile Equipment Reliability," "Workplace and Product Safety," and "Are Risk-Based Methods Mature Enough for Engineering Applications?"** – ASME, 2006
- **"The Role of Warnings and Instructions"** – University of Wisconsin, Department of Engineering Professional Development, 2006
- **"Risk-Informed Design," "Risk Methods and Applications," "Methods and Tools for Complex Systems Reliability," and "Safety and Risk Studies"** – ASME, 2005
- **"Warnings, Vision and Ergonomics Design of Industrial Inspection Tasks," "Manual Material Handling," "Ergonomics in the Semiconductor Industry," "Slips and Falls I & IV," and "Human Factors II & III"** – IOESC, 2005
- **"Returning the Space Shuttle Safely to Flight," "ASME Risk Analysis and Management for Critical Asset Protection I & II," "Issues of Societal Vulnerability and Risk Based Methods I and II," "Space and Aerospace Risk and Reliability," "Reliability Methods and Applications," "Forensic Analysis and Product Liability Issues I and II," and "Medical and Patient Safety"** – ASME, 2004
- **"Accidents in Arboriculture: What's Happening and Why?"** – TCI, 2004
- **"Safety Improvement Through Design and Process Industry Safety Management"** – ASME, 2003
- **"Applications in Safety Design"** – ASME, 2003

- **"Panel on 3D: Design, Manufacturing and Safety" and "Safety Analysis and Lessons Learned After an Accident II"** – ASME, 2002
- **"The New Frontier of Product Safety at the End of Product Life"** – ASME, 2001
- **"Symposium on Successfully Managing the Risk and Development of Your Business and Technology"** – ASME, 2000
- **"Stress Analysis and Failure Prevention," "Application of Design in Everyday Problems," and "Application of Reliability and Stress Analysis in Everyday Life Problems"** – ASME, 1999
- **"Symposium on Safety in Manufacturing and New Technologies" and "Symposium on Safety Analysis of Operating Systems"** – ASME, 1998
- **"Symposium on Product Safety and Failure Analysis and Prevention II"** – ASME 1997
- **"Design, Failure Prevention and Stress Analysis"** – Society for Machinery Failure Prevention Technology, 1997
- **"Symposium on Transportation Risk," "Symposium on Risk in Emerging Technologies," "Failure Analysis and Prevention," and "Symposium on Human Factors Engineering"** – ASME, 1996
- **"Failure Analysis/Failure Prevention I & II" and "Safety of Mechanical Equipment"** – ASME, 1995
- **"Design and Failure Prevention" and "Probabilistic Design, Failure Analysis, and Safety Methods"** – ASME, 1995
- **"Failure Analysis and Prevention"** – ASME, 1994
- **"Safety and Risk in the Chemical Process Industry I," "The Role of Operator Training in Managing Technological Risk," "Failure Analysis and Prevention I," "Symposium on Crashworthiness and Occupant Protection in Transportation Systems: Crashworthiness Methodologies," and "Product/Machine Safety"** – ASME, 1993
- **"Optimization, Reliability, and Safety Techniques," "Reliability and Probabilistic Design Analysis," and "Design Methods"** – ASME, 1993
- **"Vehicular Risk Analysis," "Safety in Manufacturing," "Plant Hazards Screening and Risk Analysis," "Engineering Applications of Risk Analysis," "Improving Freight Train Performance," and "Mechanical Design and Rehabilitation I & II"** – ASME, 1992
- **"A New Trend in Quality Engineering"** – ASME, 1992
- **"Design Methods I, II & III"** – ASME, 1991
- **"Reliability in Design," "Design Theory and Case Studies," and "Reliability of Engineering Materials"** – ASME, 1991
- **"Analysis and Assessment: A Course in Practical Ergonomics"** – Illinois Safety Council, 1991
- **"Fatigue and Fatigue Testing" and "Failure Prevention Through Stress Analysis and Reliability Methods"** – ASME, 1987

- **"How Long Should a Product Last?"** – ASME, 1987
- **"Design and Failure Prevention: Application"** – ASME, 1986
- **"International Agricultural Safety Issues"** – American Society of Agricultural Engineers (ASAE), 1986
- **"Human Factors Engineering and the Liability Interface"** – ASAE, 1985
- **"Defense Seminar on Products Liability Litigation"** – Legal Forum International, 1985
- **"National Conference on Products Liability Law"** – National Practice Institute, Inc., 1985
- **"Audit: ME 419 Design for Safety in Machines"** – Illinois Institute of Technology, 1985
- **"Weibull Analysis," "Design Case Studies," "Product Liability and Litigation," and "Design Procedures/Practice: Stress & Fatigue"** – ASME, 1989

Professional Affiliations/Honors

Tau Beta Pi, National Engineering Honor Society

- Member, 1984

Duke University

- Graduate, Departmental Distinction in Mechanical Engineering and Materials Science, 1984
- Magna Cum Laude, 1984
- Class Honors, 1982–1984
- Dean's List, School of Engineering, 1982–1984
- Recipient, R.H. Pinnix Engineering Scholarship, 1984
- Recipient, Crane Company Engineering Scholarship, 1983

American Society of Mechanical Engineers

- Member, 1985 – Present

American Society of Safety Professionals

- Member, 1987 – Present

National Society of Professional Engineers

- Member, 1986 – Present

Engineering Society of Illinois

- Member, 1986 – Present

International Society of Arboriculture

- Member, 1998 – Present

International Society for Occupational Ergonomics & Safety

- Member, 2005 – Present

American Society of Mechanical Engineers

- Member, Reliability, Stress Analysis, and Failure Prevention Steering Committee, 1992 – Present
- Session Co-organizer, General Safety Engineering, International Mechanical Engineering Congress and Exposition, 2009
- Topic Co-organizer, Product and Process Safety, International Mechanical Engineering Congress and Exposition, 2008
- Co-chairman, Product or Process Safety I, International Mechanical Engineering Congress and Exposition, 2007
- Co-chairman, Workplace and Product Safety, International Mechanical Engineering Congress & Exposition, 2006
- Chairman, Safety and Risk Studies, International Mechanical Engineering Congress & Exposition, 2005
- Co-chairman, Applications in Safety Design, Design Engineering Technical Conferences, 2003
- Co-chairman, Application of Design in Everyday Problems, Reliability, Stress Analysis and Failure Prevention Conference, 1999
- Chairman, Symposium on Safety in Manufacturing and New Technologies, International Mechanical Engineering Congress & Exposition, 1998
- Chairman, Symposium on Product Safety, International Mechanical Engineering Congress & Exposition, 1997
- Chairman, Probabilistic Design, Failure Analysis, and Safety Methods, Conference on Reliability, Stress Analysis, and Failure Prevention, 1995
- Vice-Chairman, Optimization, Reliability, and Safety Techniques, Conference on Reliability, Stress Analysis, and Failure Prevention, 1993
- Recipient, Reliability, Stress Analysis, and Failure Prevention Award, 1993
- Chairman, Reliability in Design, Conference on Reliability, Stress Analysis, and Failure Prevention, 1991
- Recipient, Reliability, Stress Analysis, and Failure Prevention Award, 1991
- Chairman, Stress & Fatigue, Reliability and Stress Analysis, Conference on Failure Prevention, 1989
- Vice-Chairman, Fatigue and Fatigue Testing, Conference on Failure Prevention and Reliability, 1987
- Recipient, Failure Prevention, Reliability, and Stress Analysis Award, 1987

International Society for Occupational Ergonomics & Safety

- Chair, Prevention Through Design and Reconstruction, XXIX ISOES Conference, 2017

- Chair, Case Studies and Applications I, XXVIII ISOES Conference, 2016
- Chair, Case Studies and Applications, XXVII ISOES Conference, 2015
- Chair, Safety I, XXVI ISOES Conference, 2014
- Chair, Accident Reconstruction, XXV ISOES Conference, 2013
- Chair, Ergonomic Applications and Assessment II, XXIII ISOES Conference, 2011
- Co-Chairman, Human Factors III, XIX ISOES Conference, 2005

Society for Industrial and Systems Engineering

- Chair, Human Factors & Ergonomics I, 3rd Annual World Conference, 2014

United States Military Academy Department of Systems Engineering

- Judge, General Donald R. Keith Memorial Capstone Conference, 2016

Northwestern University

- Judge, Winter Design Thinking and Communication Expo, 2023

ASTM International

- Task Group, ASTM International 81338 – WK99293 – Revision of F1004-25e1 Standard Consumer Safety Specification for Expansion Gates and Expandable Enclosures, 2026.

Publications

"Vertical Turning Center Accident Reconstruction and Human Factors Analysis," **D.B. Brickman**, et al., Proceedings of the XXXVIII Annual International Occupational Ergonomics and Safety Conference, November 2026.

"Analysis of Adult Portable Bed Rails: Assembly Error, Entrapment Hazards, and Warning Adequacy," **D.B. Brickman**, et al., Proceedings of the XXXVIII Annual International Occupational Ergonomics and Safety Conference, November 2026.

"Novel Accident Reconstruction Methodologies: A Collaborative Human Factors Approach," C.P. Eckersley, **D.B. Brickman**, E.H. Knox, and L.E. Rewerts, Proceedings of the 69th HFES International Annual Meeting, pp. 1-7, 2025.

"Classification of Wood Chipper Accident Types: Influence of Bottom Bump Bar," **D.B. Brickman**, et al., Proceedings of the XXXVII Annual International Occupational Ergonomics and Safety Conference, pp. 20-25, July 2025.

"Industrial Tugger 3-Dimensional Convergence Accident Reconstruction Technology," **D.B. Brickman**, et al., Proceedings of the XXXVI Annual International Occupational Ergonomics and Safety Conference, pp. 73–77, August 2024.

“Aboveground Swimming Pool Child Access Prevention Through Product Design,” **D.B. Brickman**, et al., Proceedings of the XXXVI Annual International Occupational Ergonomics and Safety Conference, pp. 128–134, August 2024.

“Best Safety Practices for Stability of PVC Pipe Bundles During Transport,” **D.B. Brickman**, et al., Proceedings of the XXXV Annual International Occupational Ergonomics and Safety Conference, pp. 82–87, October 2023.

“Residential Bunk Bed Child Entrapment Hazard Safety Test Methods,” **D.B. Brickman**, et al., Proceedings of the XXXV Annual International Occupational Ergonomics and Safety Conference, pp. 62–66, October 2023.

“Ergonomic Safety Analysis of Tilting a Concrete Grinding Machine,” W. Wong, S.F. Uchneat, **D.B. Brickman**, E.H. Knox, and J.T. Eganhouse, Proceedings of the XXXIV Annual International Occupational Ergonomics and Safety Conference, pp. 58–62, September 2022.

“Concrete Buggy Operator Presence Control 3-Dimensional Convergence of Accident Reconstruction Technology,” **D.B. Brickman**, et al., Proceedings of the XXXIII Annual International Occupational Ergonomics and Safety Conference, pp. 34–39, September 2021.

“Residential Elevator Child Entrapment Virtual Reality Accident Reconstruction Methodology,” **D.B. Brickman**, et al., Proceedings of the XXXI Annual International Occupational Ergonomics and Safety Conference, pp. 35–40, June 2019.

“Stump Grinder Accident Reconstruction and Design Testing Methodologies,” **D.B. Brickman**, A.C. Mathias, and J.M. Roberts, Proceedings of the XXX Annual Occupational Ergonomics and Safety Conference, pp. 7–12, June 2018.

“Tanker Truck Loading Platform Fall Protection Accident Reconstruction Analysis,” **D.B. Brickman**, E.H. Knox, D.H. Kruger, R.A. Brewster, and J.A. Lueck, Proceedings of the XXIX Annual Occupational Ergonomics and Safety Conference, pp. 32–37, June 2017.

“Preventing Failures in Elastomeric Resistance Bands,” A.R. Shah, **D.B. Brickman**, J.F. Grzetic, and J.T. Eganhouse, Proceedings of the Society of Plastics Engineers Annual Technical Conference, pp. 1–1, May 2017.

“Automatic Sliding Door Sensor Safety Analysis,” **D.B. Brickman**, J.M. Roberts, and C.A. Fox, Proceedings of the XXVIII Annual International Occupational Ergonomics and Safety Conference, pp. 29–35, June 2016.

“Beach Rental Elevator Child Entrapment Safety Analysis,” **D.B. Brickman**, T.J. Bajzek, E.H. Knox, C.A. Fox, J.K. Lueck, and J.M. Petersen, Proceedings of the XXVIII Annual International Occupational Ergonomics and Safety Conference, pp. 23–28, June 2016.

“Shelving Cart Design and Manufacturing Safety Analysis,” **D.B. Brickman**, G.J. Novak, C.A. Fox, J.K. Lueck, and S.A. Karlins, Proceedings of the XXVIII Annual International Occupational Ergonomics and Safety Conference, pp. 17–22, June 2016.

“Failure Analysis of a Plastic Toy Helicopter,” D.B. Edwards, **D.B. Brickman**, C.A. Fox, and R.A. Brewster, Proceedings of the Society of Plastics Engineers Annual Technical Conference, pp. 1017–1025, May 2016.

“Methods of Accident Reconstruction Biomechanical and Human Factors Considerations,” E.H. Knox, A.C. Mathias, A.R. Stern, M.P. Van Bree, and **D.B. Brickman**, Proceedings of the ASME 2015 International Mechanical Engineering Conference and Exposition, pp. 1–11, November 2015.

“Aboveground Swimming Pool Ladder Safety: The Application of Child Resistance to a Consumer Product Used by Children,” A.C. Mathias and **D.B. Brickman**, Proceedings of the Human Factors and Ergonomics Society 59th Annual Meeting, pp. 966–970, 2015.

“Commercial Hand-Fed Chipper Winch Line Accident Reconstruction Analysis,” **D.B. Brickman**, E.H. Knox, C.A. Fox, and J.D. Stage, Proceedings of the XXVII Annual International Occupational Ergonomics and Safety Conference, pp. 25–30, May 2015.

“Dresser Tipover Child Accident Reconstruction Case Study,” **D.B. Brickman**, E.H. Knox, and J.F. Grzetic, Proceedings of the XXVII Annual International Occupational Ergonomics and Safety Conference, pp. 19–24, May 2015.

“Household Cooking Range Tipover Accident Reconstruction Case,” **D.B. Brickman** and S.A. Sanders, IMECE2014-36421, Proceedings of the ASME 2014 International Mechanical Engineering Congress and Exposition, pp. 1–6, November 2014.

“Residential Elevator Child Entrapment Prevention Human Factors Testing,” **D.B. Brickman** and A.C. Mathias, Proceedings of the 3rd Annual World Conference of the Society for Industrial and Systems Engineering, pp. 63–68, October 2014.

“Human Factors Case Study of Child Product Safety Test Approach Through Long-Term Observations of Live Infant Interaction,” A.C. Mathias and **D.B. Brickman**, Proceedings of the 3rd Annual World Conference of the Society for Industrial and Systems Engineering, pp. 208–213, October 2014.

“Bungee Cord Eye Injury Accident Reconstruction,” **D.B. Brickman** and A.R. Stern, Proceedings of the XXVI Annual International Occupational Ergonomics and Safety Conference, pp. 13–18, June 2014.

“Product Warning Label Development for Blade Strike Fire Hazard,” **D.B. Brickman** and A.C. Mathias, Proceedings of the 2nd Annual World Conference of the Society for Industrial and Systems Engineering, pp. 348–353, November 2013.

“Residential Elevator Child Entrapment Accident Reconstruction,” **D.B. Brickman**, Proceedings of the XXV Annual Occupational Ergonomics and Safety Conference, Atlanta, GA, pp. 164–169, June 2013.

“Crib Mattress Support Collapse Accident Reconstruction,” **D.B. Brickman**, G.J. Novak, and A.C. Mathias, Proceedings of the XXV Annual Occupational Ergonomics and Safety Conference, pp. 56–61, June 2013.

“Chipper/Shredder Discharge Chute Accident Reconstruction,” **D.B. Brickman**, Proceedings of the XXIV Annual International Occupational Ergonomics and Safety Conference, pp. 171–176, June 2012.

“Consumer Deep Fryer Accident Reconstruction,” **D.B. Brickman**, Proceedings of the XXIV Annual International Occupational Ergonomics and Safety Conference, pp. 111–116, June 2012.

“Commercial Tree Chipper Safety Control Bar Activation Analysis,” **D.B. Brickman**, IMECE2011-64750, Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition, pp. 1–9, November 2011.

“Failure Analysis of a Commercial Brush Chipper Hood,” D.M. Norfleet, M.E. Stevenson, J.A. Wilkinson, M.T. Kenner, and **D.B. Brickman**, Journal of Failure Analysis and Prevention, ASM International, August 13, 2011.

“Tree Chipper Safety Pull Cable Human Factors Testing,” **D.B. Brickman**, Proceedings of the XXIII Annual International Occupational Ergonomics and Safety Conference, pp. 147–152, June 2011.

“Crib Tent Safety Analysis,” **D.B. Brickman** and J.F. Grzetic, IMECE2010-38593, Proceedings of the ASME 2010 International Mechanical Engineering Congress & Exposition, pp. 1–6, November 2010.

“Post Hole Digger Clothing Entanglement Safety Analysis,” **D.B. Brickman**, Proceedings of the XXII Annual International Occupational Ergonomics and Safety Conference, pp. 117–122, June 2010.

“Safety Analysis and Child Testing of Residential Windows,” **D.B. Brickman** and J.F. Grzetic, IMECE2009-10127, Proceedings of the ASME 2009 International Mechanical Engineering Congress & Exposition, pp. 1–7, November 2009.

“Tree Chipper Human Perception-Reaction Testing,” **D.B. Brickman** and J.P. Purswell, Proceedings of the XXI Annual International Occupational Ergonomics and Safety Conference, pp. 36–41, June 2009.

“Jacket Elastic Drawstring Toggle Safety Analysis,” **D.B. Brickman**, IMECE2008-66725, Proceedings of the ASME International Mechanical Engineering Congress and Exposition, pp. 1–8, October–November 2008.

“Safety Analysis of Sling and Strap Failures,” **D.B. Brickman** and K.M. Smith, IMECE2007-41260, Proceedings of the ASME 2007 International Mechanical Engineering Congress and Exposition, pp. 1–6, November 2007.

“Dinette Chair Tip Over Danger Analysis,” **D.B. Brickman**, IMECE2006-13318, Proceedings of the ASME 2006 International Mechanical Engineering Congress and Exposition, pp. 1–7, November 2006.

“Trampoline Enclosure Safety Engineering Analysis,” **D.B. Brickman**, IMECE2006-13317, Proceedings of ASME 2006 International Mechanical Engineering Congress and Exposition, pp. 1–5, November 2006.

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