

Jeremy Bethancourt
Augspurger Komm Engineering, Inc.
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EDUCATION

B.S. in Justice Administration, Minor Sociology, Arizona State University, 1997
A.A. in Pre-Law at Glendale Community College, 1994
A.S.C., National Safety Council, OS&H, 2010

EXPERIENCE

Mr. Bethancourt has over 20 years' experience in worksite safety and regulatory compliance. He is the current Director of Safety for LeBlanc Building Company, Inc. and just finished his second two year term as one of the two appointed Public Representative Members to the Advisory Committee on Construction Safety & Health for the Occupational Safety & Health Administration.

Mr. Bethancourt's first-hand experience in fall protection and other aspects of worksite safety provides him with the unique ability to apply both regulatory requirements and real world solutions to the examination of an accident.

He is a trainer for the Arizona Chapter National Safety Council, past member of the Public Relations Committee for the American Society of Safety Engineers, Professional Member of the American Society of Safety Engineers (ASSE)/ Arizona Chapter, board member of Kids' Chance of Arizona, Committee Member of the Arizona Business Association Safety Committee, Member of the A-10.32 ANSI/ASSE Fall Protection Subcommittee, and Section Advisor for the Construction Section of the Arizona Chapter of the ASSE.

EXPERIENCE HISTORY

2015 – Augspurger Komm Engineering, Inc.; Consultant
1996 – Leblanc Building Co., Inc.; Director of Safety/Trainer; Regulatory Interface
2009 – ACTA Safety; Program Director/ Secretary Treasurer
2010 – American Society of Safety Engineers; American National Standards Institute Subcommittee Member
2011 – National Safety Council; Arizona Chapter, Trainer/Consultant/OSH Advisor
2012 –2016 ACCSH Member – Appointed by United States Secretary of Labor Solis in 2012 and reappointed by United State Secretary of Labor Perez in 2014 to serve as one of two Public Representative Members to the Advisory Committee on Construction Safety & Health for the Occupational Safety & Health Administration. Second term ended July 2016.
2009- Professional Member American Society of Safety Engineers

AWARDS

- 2017 Edgar Monsanto Queeny Safety Professional of the Year
- 2015 Safety Professional of the Year, Construction Practice Specialties, ASSE
- 2013 Inaugural Triangle Award for Heroic Dedication presented by the American Society of Safety Engineers
- 2010 Kids Chance of Arizona Service Award
- 2009 Safety Professional of the Year Arizona Chapter of the ASSE
- 2008 Runner-up National Association of Home Builders SAFE Award as Safety Professional of the Year
- 2006 Five Year Service Award from Arizona Hemophilia Association

PROFESSIONAL AFFILIATIONS

- 2012-2016 Appointee to Advisory Committee on Construction Safety & Health/ OSHA
- Professional Member American Society of Safety Engineers
- Instructor Arizona Chapter National Safety Council
- Safety Ambassador National Safety Council
- Arizona Business Association Safety Committee Member
- 2008-2009 Vice Chairman Arizona ASSE Construction Section
- 2009-2010 Chairman Arizona ASSE Construction Section
- Board of Directors Member Arizona Kids' Chance
- 2008-2011 Voluntary Participant OSHA Advisory Committee on Construction Safety & Health
 1. Residential Fall Protection Work Group (In hiatus)
 2. Women in Construction Work Group
 3. Diversity in Construction Work Group
 4. Prevention Through Design

PUBLICATIONS & PRESENTATIONS

- *Fall Protection – Overcoming Misconceptions in Residential Construction*, Journal of the American Society of Safety Engineers, March 2017
- *Making the Fall Protection System Fit the Workplace*, Whitepaper & Lecture, Safety 2016, Professional Development Conference & Exposition for the American Society of Safety Engineers, Co-author/presenter, 2016.
- *Structural Efficacy of Residential Structures for Fall Protection Systems*, Journal of the American Society of Safety Engineers, May 2015

- *The Cost-effectiveness of Fall Arrest Systems in Construction: The Employers Perspective*, National Occupational Injury Research Symposium: Status Report & Preliminary Findings, Co-Author October 2011.
- *OSHA Rescinds Residential Fall Protection Exemption: What the New Directive Means for the Residential & Commercial Building Industry*, Professional Safety, Journal of the American Society of Safety Engineers June 2011
- *Safe Best Practices for Linemen*, UOSH Safety Line, April 2011
- *Guidance Document for Residential Construction*, OSHA Co-Contributor/Consultant, U.S. Department of Labor/ Occupational Safety & Health Administration, 2011.
- *Health Hazards in Construction*, Co-Contributor, Construction Safety Council® Copyright 2011.
- *The Journey from Alternative to Conventional: A Moral Choice LeBlanc Building Co., Inc.* LBC, 2008
- *Conventional Fall Protection: Is It Still Infeasible or a Greater Hazard To Use Conventional Fall Protection In Residential Construction?* Technical Report LBC, 2007
- *Tool Box Safety Talks*, LeBlanc Building Co., Inc., English & Spanish LBC, 2007
- *Framer Fall Protection FFP™/ Slide Guard/ CAZ* LBC, 2006
- *Framer Orientation & General Safety Instruction*, LeBlanc Building Co., Inc. English & Spanish 2006 & 2008
- Numerous Presentations made to the Advisory Committee on Construction Safety & Health ACCSH 2008-2011.

RESEARCH SUPPORT & COLLABORATIONS

2014 to Present: Mr. Bethancourt is a peer reviewer for the Journal of Architectural Engineering.

2013-2014: Mr. Bethancourt co-authored a report funded by CPWR through a NIOSH/CDC grant with the end goal of providing employer contractors information on how they might improve worker safety by using fall protection systems in wood frame construction. The document titled: *Structural Efficacy of Residential Structures for Fall Protection Systems* provides an overview of thirteen averted or arrested falls of workers over a seven year period. The report is part one of a multi-phase project proposal aimed at improving the safety of workers at height.

2010 -2013: Mr. Bethancourt assisted NIOSH researches as they prepared materials which are provided to industry to assist workers and employers in reduce pneumatic nail gun injuries. The document titled: *Straight Talk About Nail-Gun Safety* is the culmination of over three years of research and collaboration with industry into best practices for nail-gun safety. It is anticipated that the animated approach of the document will enable even low literacy workers the ability to understand best practices and actions that can be taken to mitigate the hazards association with using pneumatic nail-guns.

2010-Present: Mr. Bethancourt in conjunction with several partners has been evaluating and testing wood frame structures for suitability for fall protection anchor points to be incorporated into structures during initial construction. The evaluations have been conducted at several sites and on numerous truss configurations. The protocols used for the evaluation of structures were taken from CFR 1926 Appendix C to Subpart M and ANSI A10.32. The research is on a continuing basis in an effort to accumulate documentation to the applicability, practicality, and feasibility of fall protection in wood frame construction. Since 2007 there have been eight separate evaluations.

2009-2012: Mr. Bethancourt was chosen to act as an industry liaison as well as a worker/employer safety advocate as NIOSH investigated ways to reduce the large amount of occupational injuries as a result of pneumatic nail guns. Despite evidence that traumatic nail gun injuries are a relatively frequent occurrence which can result in serious injury or death, current ‘best practices’ for reducing these injuries have not been widely adopted. As part of industry outreach, NIOSH facilitated focus groups to be conducted and explore the attitudes and beliefs of residential building stakeholders regarding barriers to adopting use of safer pneumatic nail guns and work practices, and to identify communication (i.e., social marketing) content and methods appropriate for stakeholders. The goal of the NIOSH project titled “*Adoption and Diffusion of Safety Improved Nail-Guns*” is the increase in the use of the improved pneumatic nail guns and work practices that will reduce the risk of traumatic injury during wood frame construction.

2004-2011: Mr. Bethancourt in collaboration with several NIOSH researchers completed a preliminary report for the October 2011 National Occupational Injury Research Symposium. That report titled: *The Cost-effectiveness of Fall Arrest Systems in Construction: The Employers Perspective* provided specific injury and labor burden data of a small to medium size employer over a 7 year period. The evidence demonstrated the reduction in workers compensation premiums as a result of a reduction in fall related incidents. The evaluation of the company’s work practices prior to the intervention is very important given the fact that many in the industry even now advocate and promote comparable work practices and has consistently demonstrated similar fall incident rates over the last 20 years. The current research is the evaluation of four additional years of data including cost for maintenance and replacement of equipment, decrease in workers compensation premiums, and an additional six workers successfully saved after they fell. The current manuscript is undergoing peer review for publication and is titled, “*We Can Do It: A Methodology to Incorporate Fall Protection Safety into the Building Process.*” The current work is part two of a multi-phased effort focused on reducing injuries through work practice modification, prevention through design, preplanning, and continual worker training and evaluation. The data collected will be easily used to compare the fall incidents of construction companies to demonstrate similar reductions of those incidents would in fact be financially beneficial for the industry.

2009-2010: Mr. Bethancourt was a key advisor and technical consultant/advocate representing workers and end users to the NIOSH pilot research project titled “*Fall Arrest Systems in Residential Roof Construction*”. The purpose of the project was to design, analyze, and pilot test a method of evaluating the feasibility of using wood frame roof structures/trusses as an anchorage point for Personal Fall Arrest Systems in wood frame construction during light commercial/ residential activities. As part of the work, a methodology was to be created to evaluate under what conditions a wood framed structure could be used as an acceptable anchorage location as part of a PFAS designed to protect workers should they fall while working at height. At the beginning of 2010 the pilot study had not reached all its desired goals and as a result all “partners were asked to extend their cooperation with NIOSH under the original Letter of Agreement.

2007: Mr. Bethancourt was the project manager for a residential construction field study conducted in Arizona titled, “*Conventional Fall Protection Anchor Feasibility Demonstration/Test*”. The purpose of that study was to determine, from a wood frame perspective, if it was still infeasible or a greater hazard to provide fall protection systems as defined by the U.S. Occupational Safety & Health Administration. The results from that field study and subsequent engineering evaluation was fundamental in establishing the basis for a similar test conducted by Weyerhaeuser Research & Development in April 2008 and an industry

wide mobilization toward the rescinding of the Residential Interim Fall Protection Guidelines. The study also evaluated the response of open floor and roof framing to forces caused by a falling object under simulated conditions that are typical in residential construction when a worker falls. The protocols for the evaluation were deemed compliant with Appendix C to 1926 Subpart M. The evaluation was observed by ADOSH Consultation and industry representatives. The report was widely distributed and submitted to the Federal Registrar for access by the general public.

BOARDS AND APPOINTMENTS

Trainer for the Arizona Chapter National Safety Council,
Government Affairs Chairperson Arizona Chapter American Society of Safety Engineers (ASSE)
Board Member of Kids' Chance of Arizona
Committee Member of the Arizona Business Association Safety Committee
Member of the A-10.32 ANSI/ASSE Fall Protection Subcommittee,
Section Advisor for the Construction Section of the Arizona Chapter of the ASSE