



EDWARD J. TUCZAK, M.S.E., P.E.

SENIOR CONSULTANT

ejtuczak@engsys.com

Mr. Edward Tuczak is a Senior Consultant for ESI, with over 25 years of experience in the planning, design, construction, maintenance, and investigation of various buildings, structures, and facilities. His professional practice areas include construction defects, structural failures, premises liability, construction accidents, and water intrusions through the building envelope. Mr. Tuczak also conducts property damage assessments in relation to windstorm events, floods, fires, vehicle impacts, foundation movement/distress, and water releases from plumbing, HVAC, and fire protection systems. His client services include expert witness testimony, damage evaluation and causation reports, construction repair services, and fall protection consultation.

Prior to working in the forensic field, Mr. Tuczak performed structural, architectural, and site design for numerous buildings and structures. This included the assessment, repair, and reinforcement of existing structures for new occupancy and usage demands required by facility owners. Mr. Tuczak has also designed temporary and permanent fall protection systems for large industrial and power generation facilities.

Areas of Specialization

Structural Systems & Foundations
Construction Safety & OSHA Compliance
Water & Moisture Damage
Code Compliance & ADA Accessibility
Building Envelope & Roofing
Exterior Site Features & Utilities
Crane Rigging & Fall Protection
Damage Evaluation & Repair Design

Education

Graduate Certificate, Occupational Safety & Health, Columbia Southern University, Orange Beach, AL, 2017
M.B.A., Management, Cleary University, Ann Arbor, MI, 2006
Certificate Facilities Management Administration, Washtenaw Community College, Ann Arbor, MI, 2004
M.S.E., Civil Engineering, University of Michigan, Ann Arbor, MI, 1994
B.S., Architecture, University of Michigan, Ann Arbor, MI, 1992

Licensed Professional Engineer (P.E.)

State of Florida.....88056
State of Illinois.....062-060661
State of Indiana.....PE10910465
State of Michigan.....6201045603
State of New York.....092225

September 2024



Licensed Professional Engineer (P.E.) Continued

State of New Jersey.....2577163
State of Ohio71674
State of PennsylvaniaPE075561

Professional Affiliations/Honors

International Institute of Building Enclosure Consultants (IBEC), Consultant Member
Engineering Society of Detroit (ESD), Member
Structural Engineering Association of Michigan (SEAMI), Member
American Society of Safety Professionals (ASSP), Member

Professional Activities

Chair, ANSI/ASSP A10 Committee Subgroup A10.32, Fall Protection Systems for Construction and Demolition Operations, 2020-Present

Chair, ANSI/ASSP A10 Committee Subgroup A10.37 Debris Net Systems Used During Construction and Demolition Operations, 2023-Present (Member, 2017-2023)

Member, ANSI/ASSP A10- Subgroup A10.6 Safety & Health Program Requirements for Demolition Operations, 2014-Present

Member, Construction Association of Michigan Safety Committee, 2014-2016

Member, ASSE Wordless Safety Manual Committee, 2013-2015

Judge, Future Cities Competition, Engineering Society of Detroit, 2012

Member, MIOSHA Construction Safety Standards Commission, Advisory Committee, Part 10 - Lifting and Digging Equipment, 2009-2010

Board Member, Geddes Lake Cooperative Homes, Ann Arbor, MI 2000-2001

Chair, Capital Improvements Committee, Geddes Lake Cooperative Homes, Ann Arbor, MI 1998-1999

Positions Held

Engineering Systems Inc., Ann Arbor, Michigan

Senior Consultant, 2010 to Present

Packer Engineering, Ann Arbor, Michigan

Director, 2008 - 2010

Senior Staff Engineer, 2004 – 2008

Cummins & Barnard, Inc., Ann Arbor, Michigan

Structural/Architectural/Civil Engineer, 2001 – 2004

Ghafari Associates, Inc., Dearborn, Michigan

Structural Engineer, 1997 – 2001

Smith, Hinchman & Grylls, Detroit, Michigan

Graduate Engineer 1995 – 1997

Indianapolis Airport Authority, Indianapolis, Indiana

Construction Management Intern, 1993-1994

City of Ann Arbor Engineering Department, Ann Arbor, MI

Engineering Intern, 1991 – 1992

Certificates

Walkway Auditor certificate Holder, National Floor Safety Institute, May 2024

Continued Education

EPA Guidelines for Construction & Demolition Debris, ADA Accessibility Standards, Personal Protective Equipment in Construction, Drywall Repair, Florida PE Laws & Rules, Decks, Ethics for Engineers as Expert Witnesses, Railings, Fall Prevention in Industry (Titan, 2023)

Guardrail Systems, Historic Preservation, Illinois Laws and Rules, Ethics for Engineers, Illinois Harassment Training (PDHengineer, 2023)

Indiana Statutes, Rules and Ethics (EZ-pdh, 2022)

Construction Cautions and Top 10 Concerns with Enclosures (Tremco, 2021)

Infrastructure Planning, Foundations, Culverts, Pavement Design, Roller Compacted Concrete, Internal Curing of Concrete Pavement, Deterioration of Concrete, Fasteners (EZ-PDH, 2021)

Florida, Ohio, and New York Administrative Rules, Coeds and Ethics (EZ-PDH, 2021)

ADA Accessible Routes and Building Blocks, Green Building Design, Storm Shelters (EZ-PDH, 2021)

Design for Construction Safety, Noise Hazards, Administering Construction Projects, (EZ-PDH, 2021)

Building Acoustics: Making Architects Visions a Reality (Hanleywood University, 2020)

Plaza Deck Waterproofing (Keene Building Products, 2020)

Roof Design with Special Profile Joists (2020, Steel Joist Institute)

Design Fundamentals of Heavy Timber and Sawn Wood Construction; The Simplified Design and Practical Use of Engineered Wood Products; and How Things Break: Thermal Effects (PDH Engineer, 2018)

Condition Assessment of Concrete Structures Prior to Rehabilitation, (ACI, 2018)

Mold Basics, The Science of Mold, Health Effects Caused by Mold, Understanding Moisture Intrusion and its Impact on Mold Growth, Preventing Mold Growth, (RCI, 2018)

Ethics for the Practicing Engineer, Indiana Engineers' Laws and Rules; Mold Remediation; Set-up of Engineering Controls for Mold Remediation Projects; Mold Remediation Equipment; and Personal Protective Equipment for Mold Remediation Contractors and Consultants, (Red Vector, 2018)

Architectural Sheet Metal Flashing Design, (RCI, 2018)

Dropped Objects – The Other Fall Protection, (ASSE, 2016)

Facilities Management, Forensic Structural Inspections, Geotechnical Exploration, Asbestos and Lead Paint, Subsurface Utilities, (PDH Engineer, 2016)

HVAC Systems, (PDH online, 2016)

MIOSHA Temporary Worker Initiative Symposium, June 8, 2016

Construction Safety Symposium (American Society of Safety Engineers, 2015)

Excavation Safety (MIOSHA, 2015)

Job Hazard Analysis (MIOSHA, 2015)

Construction Safety Leadership Conference (Construction Association of Michigan, 2014)

Ladder Safety Training (American Ladder Institute, 2014) Wood-Destroying Organism Inspection (International Association of Certified Home Inspectors, 2014)

Asbestos and Lead Awareness (MIOSHA, 2014)

Construction Safety Leadership Conference (Construction Association of Michigan, 2013)

Building Envelope Investigations: Standards & Methodology for Investigating Roofing, Waterproofing & Exterior Walls in Residential & Commercial Buildings (The Building Envelope Institute, 2013)

Construction Safety Leadership Conference (Construction Association of Michigan, 2012)

Scaffold Competent Person Hands-on, and Design/Loading Classes (Scaffold Training Institute, 2012)

C3 Contractor's Safety and Health Program (Clicksafety, 2012)

Fire Protection Engineering, Coatings and Paints (PDHDirect, 2012)

ADA Basics (Syracuse University, 2011)

Concrete Evaluation and Repair, Window Installation, Roof Leak Detection, Asphalt Shingles, Flexible Roofing Edge Design (RedVector, 2011)
Segmental Retaining Wall Design (PDHEngineer, 2010)
Construction Safety Symposium (American Society of Safety Engineers, 2010)
Wind Loads for Buildings and Structures (American Society of Civil Engineers, 2009)
Fall protection Competent Person course (MIOSHA, 2009)
Masonry Day (International Masonry Institute, 2008)
Masonry Design and Construction (University of Wisconsin, 2008)
30-Hour Outreach Trainer Course - Construction Safety (OSHA, 2007)
30-hour Construction Safety (OSHA, 2007)
General Construction Safety, Residential Fall Protection (MIOSHA, 2007)
Water and Moisture in Buildings-Basic and Advanced (University of Illinois, 2006)
Water Entry Prevention and Moisture Control in Buildings (University of Wisconsin, 2005)
Scaffolds and Swing Stages (OSHA, 2005)
Engineered Wood Products (American Plywood Association, 2005)
Certificate in Project Management (Washtenaw Community College, 2004)
General Roofing Knowledge (Tremco Corp, 2004)
Reinforced Concrete Design (Concrete Reinforcement Steel Institute, 2003)
Design of Blast-Resistant Buildings (American Society of Civil Engineers, 2003)
Curtain Wall Systems (American Society of Civil Engineers, 2003)
Design of Industrial Buildings (Education Programs Innovations Center, 2002)
Foundation Design (University of Wisconsin, 2001)
Masonry Codes (The Masonry Society, 2000)
Various Steel Design Seminars (American Institute of Steel Construction, 1995-1999)

Publications/Presentations

"How and When to Effectively Utilize Technology to Your Advantage," J.M. Roberts and **E.J. Tuczak**, Property and Liability Resource Bureau (PLRB) 2024 Central Regional Adjusters Conference, St. Louis, MO, August 27-28, 2024.

"Human Factors & Premise Liability," (2020). Auflick, J. L. and **Tuczak, E. J.**, Live Webinar, Ohio Association of Civil Trial Attorneys, December 3, 2020.

"Temporary Roof Repairs and Harvesting Roof Tiles," (2020). Johnson, A. W. and **Tuczak, E.J.**, Select chapters, 21st Annual Windstorm Insurance Conference, Hilton Orlando Buena Vista Palace, Orlando, Florida, January 26-30, 2020.

- "When Old Buildings Violate New Codes," **Tuczak, E. J.** (2019). ESi Michigan Office Open House, Ann Arbor, Michigan, September 26, 2019.
- "Building Damage from Vehicle Impacts," **Tuczak, E.J.**, and Roberts, J.M., International Association of Special Investigation Units, Michigan Chapter, Livonia, MI, October 18, 2018.
- "How to Involve an Expert in a Case from Start to Finish," **Tuczak, E. J.**, Mink, R. A., and Bajzek, T. J. (2017). DTCL Summer Combined Committee CLE Event, Tinker House, Indianapolis, Indiana, August 17, 2017.
- "Who's in Control and What's at Stake?" Jane, M.T. and **Tuczak, E. J.** (2017). Associated General Contractors of Michigan, Livonia, MI, May 17, 2017.
- "Material Handling & Storage," **Tuczak, E. J.** and Lindros, C. (2016). CAM Safety Leadership Conference, Livonia, MI, December 7, 2016.
- "Human Factors & Premise Liability," Auflick, J.L. and **Tuczak, E.J.** (2016). Michigan Defense Trial Counsel, Live Classroom and Live Webcast, Ann Arbor, MI, June 9, 2016.
- "Challenges in Demolition of Existing Buildings," Lindros, C. and **Tuczak, E.J.** (2015). Construction Association of Michigan Safety Leadership Conference, Livonia, MI, September 9, 2015.
- "When Old Buildings Violate New Codes," **Tuczak, E. J.** (2015). Toledo Insurance Association, Toledo, OH. February 12, 2015.
- "When Old Buildings Violate New Codes," **Tuczak, E. J.** (2015). Fort Wayne Insurance Adjusters Association, Fort Wayne, IN, February 5, 2015.
- "Utilizing the Forensic Engineer," Kaczkowski, R. T. and **Tuczak, E. J.** (2008). Defense Research Institute Construction Law Seminar," Las Vegas, NV.
- "Math and Structural Engineering," **Tuczak, E. J.** (1996). Invited guest lecturer, Presentation, Oakland Community College, Royal Oak, MI.