

Dana Charles Lehman | Senior Structural Engineer, P.E.

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Professional Summary:

Experience including structural engineering design, structural and mechanical system failure analysis, moisture damage and intrusion analysis of building structures, water-loss system failure determinations, and structure and vehicle fire and explosion origin and cause examinations. Projects include residential, commercial, and industrial facilities.

Licenses and Certifications:

Professional Engineer, GA, #032586
Professional Engineer, IN, #60920042
Professional Engineer, KY, #24162
Professional Engineer, NC, #033403
Professional Engineer, OH, #69953
Professional Engineer, VA, #044401
Haag Certified Roof Inspector, #200707132

Project Experience:

Maple Leaf Farms – Milford, IN

Poultry processing plant project. Provided engineering structural design, supervision, and job coordination for manufacture and construction of precast and prestressed concrete columns, inverted-tee beams, load-bearing double-tee wall panels, and doubletee roof components that comprised the building frame and envelope.

Multi-purpose Gym and Educational Building Collapse

Engineering examination of multi-purpose building constructed of load-bearing, woodframed walls, and manufactured, metal-plated, wood roof trusses spanning 74 feet. Determined that inadequate horizontal bracing of truss components resulted in buckling and collapse of the roof.

Bridge Collapse

Engineering examination of a single-span covered bridge with main-frame timber trusses, plank roadway and walkway, and metal-plated, wood trusses transversely framing a gable roof. Determined that construction equipment loading prior to completion of structural framing and the absence of adequate temporary bracing resulted in collapse.

Professional Experience:

EFI Global, Inc., Indianapolis, IN, Senior Structural Engineer, 2009 – Present
Barker & Herbert Analytical Laboratories, Inc., New Haven, IN, Engineer – Forensics, 1989 – 2009
Masolite Concrete Products, Fort Wayne, IN, Engineer, 1976 - 1989

Specialized Education:

Professional Development 2012: Asphalt Materials & Production, Asphalt Pavement – Design Basics, Brittle Fracture for Steel Structures, Groundwater for Engineers & Scientists, Groundwater Hydrology, Helical Foundations & Tiebacks, Hot-dip Galvanizing: Corrosion Protection
Professional Development 2011: Concrete Evaluation & Repair 1, Masonry Design: Foundation & Retaining Walls, Plumbing: Lift Stations, Pipes, Vents, Drain Lines & Septic Systems, Roofing Materials – Asphalt Shingles, Water Well Design, Masonry Design: Structural Masonry Professional Development 2010: Retaining Wall Design 1 & 2, Roofing Membrane Wind Load Design, Basic Wind Loads I, Wood Beam Design, Ethical Decision Making for Engineers I, HVAC Systems & Indoor Air Quality
Professional Development 2009: Mold Remediation, Dehumidification, Concrete Deterioration, Metal Deterioration, and Wood Design
Non-Residential Wood Design, WoodWorks, 2008
Commercial Roof Inspection Seminar, Haag Engineering, 2008
Roofing Inspector Certification Program, Haag Engineering, 2007
Design of Masonry Structures and Masonry Restoration, ASCE, 2005
Residential Inspection Course, American Society of Home Inspectors, 2000
Wind Loads for Buildings and Other Structures, ASCE, 1999
Seven Seminars Regarding Structure and Vehicle Fire Investigation, and Two Gas and Electric Appliance Seminars, 1997 – 1999
Structural Engineering Intensive Short Course, Center for Professional Advancement, 1997
Material Evaluation for Structural Condition Assessment of Existing Structures, ASCE, 1995
Parking Structures Seminar, Prestressed Concrete Institute, 1988
Structural Design of Parking Structures Seminar, Prestressed Concrete Institute, Purdue University (Lafayette IN) 1986

Education:

Bachelor of Science, Construction Engineering Technology, Purdue University, IN, 1982

Affiliations:

American Society of Civil Engineers

Courses Instructed/ Guest Lecturer:

Hail Roofing Damage, Truss Collapse, & Water Intrusion Issues, 2010
Structural Failure & Collapse & Water Losses, 2006
Mold – The Cause & Prevention, 2005
Roof Damage and Defects Seminar, 2005
Weather Related Issues with Structures Seminar, 2004
Wind, Water, Hail, Snow, Ice and Structures Seminar, 2004
Buildings, Other Structures & Roof Damage, 2003
Moisture Source & Control, 2002
Construction Defects and Failures, 2001
Vehicle Fire Determination, Duneland School of Fire & Emergency Services, 1998