



**MICHAEL C. WRIGHT—PE, CSP, CPE**

President & Expert Witness

**Firm:** Safety through Engineering, Inc.<sup>SM</sup>

**Address:** 9363 Detrick Jordan Pike  
New Carlisle, Ohio 45344-9140

**Phone:** 937.964.1900

**Fax:** 937.964.8457

**E-mail:** [mikewright@ste4u.com](mailto:mikewright@ste4u.com)

**Web Site:** [www.ste4u.com](http://www.ste4u.com)

## PROFILE

Mike Wright's expert witness experience combines a strong blend of defense, plaintiff and OSHA solicitor cases. As a professional structural engineer licensed in 45 states plus the District of Columbia, Mike rounds out his expertise with the licenses of Certified Safety Professional (CSP) and Certified Plant Engineer (CPE), broadening his knowledge and experience with the built environment.

With over 30-plus years of academic, practical and specialized knowledge in the areas of construction, demolition, engineering, general industry, maintenance, maritime industry, mining operations and safety, Mike's expertise is a definite plus in providing clients with leading-edge information and insight. He understands the multilayered components of an organization—employee workplace activities; facility components; and design, construction, maintenance and demolition activities—enabling him to untangle difficult matters with a clear understanding of the issues involved and the standards that apply.

By completing over 600 hours of specialized safety training, Mike is able to provide in-depth knowledge and hands-on experience in structural engineering, safety, construction and building code requirements. He serves on ANSI and ASTM standards committees and has a thorough knowledge of OSHA Regulations, MSHA Regulations, Directives and Letters of Interpretation. A recognized author, presenter, and trainer, Mike communicates the issues clearly for all to understand.

Mike received his bachelors from Ohio Northern University in Ada, Ohio, and his masters in Structural Engineering from the University of Cincinnati. He is an avid camper and photographer. Mike and his wife, Diana, have five children and two grandchildren.

## **OVERVIEW: CLIENT TYPES, DISCIPLINES, REGULATIONS AND STANDARDS, AND SERVICES**

### **CLIENT TYPES**

- ▷ Amusement parks
- ▷ Aviation
- ▷ Commercial
- ▷ Contractors
- ▷ Entertainment
- ▷ General industry
- ▷ Manufacturing
- ▷ Maritime
- ▷ Military
- ▷ Residential
- ▷ Restaurant
- ▷ Retail
- ▷ Sports

### **REGULATIONS AND STANDARDS**

- ▷ ANSI
- ▷ ASME
- ▷ ASTM
- ▷ Jones Act
- ▷ MSHA
- ▷ OSHA
- ▷ U.S. Coast Guard

### **DISCIPLINES**

- ▷ Construction engineering and safety
- ▷ General industry engineering and safety
- ▷ Maritime engineering and safety
- ▷ Safety engineering and training
  - Fall protection
  - Confined space
  - Ladders and stepladders
  - Lockout/tagout
  - Machine guarding
  - Suspended crane loads
  - Product safety
  - ADA safety requirements
- ▷ Structural engineering

### **SERVICES**

- ▷ Accident cause analysis
- ▷ Building codes—local, state and international
- ▷ Consultation
- ▷ Depositions, hearings and trials
- ▷ Field inspection
- ▷ Structural analysis
- ▷ Job hazard analysis

## CREDENTIALS

The experience and qualifications of Michael C. Wright detailed below demonstrate his authority in the subject matter of engineering and safety.

- ▷ 30+ years professional experience as structural engineer, safety engineer, construction engineer, certified safety professional, certified plant engineer, and expert witness
- ▷ 100 million square feet of facility services, including design, renovation, inspection
- ▷ 200 million square feet of fall protection programs
- ▷ 600 hours of training, including fall protection, confined space entry, machine guarding, scaffolding, rescue, aerial and scissors lifts, suspended loads, ladders and stepladders, and confined space
- ▷ ADA safety requirements—developed audits, design protection criteria and foreseeable usage protection
- ▷ Aerial and scissors lifts—developed user training programs, audits, design criteria, user policies and procedures
- ▷ Confined space—developed user training programs, audits, design criteria, user policies and procedures
- ▷ Construction cranes, gantry cranes, tower cranes, and general industry cranes—developed user safety training programs, tire rollover guarding protection, audits, design criteria, user policies and procedures, and foreseeable usage protection
- ▷ Construction equipment tire rollover guarding protection—developed safety programs, audits, design protection criteria and foreseeable usage protection
- ▷ Conveyor safety—developed safety programs, audits, design protection criteria and foreseeable usage protection
- ▷ Earth moving equipment tire rollover guarding protection—developed safety programs, audits, design protection criteria and foreseeable usage protection
- ▷ Fall protection—designed, developed, and implemented written policies, procedures, rescue plans, OSHA fall protection plans, equipment specifications, and use
- ▷ Fall protection equipment—designed, developed, and implemented written user policies, testing procedures, rescue plans, user training programs, user design criteria, safety policies and safety procedures
- ▷ Golf cart safety—developed testing programs, audits, design criteria and foreseeable usage protection
- ▷ International author, presenter and trainer
- ▷ Ladders and stepladders—developed user training programs, audits, design criteria, policies and procedures
- ▷ Machine guarding—developed user training programs, audits, design criteria, policies, procedures and foreseeable usage protection
- ▷ Maritime safety
- ▷ Mine safety and health administration
- ▷ OSHA, MSHA, ANSI, ASTM requirements and industry safe practices
- ▷ OSHA Qualified Person
- ▷ Rollover protection structures—developed safety programs, audits, design criteria and foreseeable usage protection
- ▷ Safety training program developer and facilitator: confined space, construction safety, fall protection, general industry safety, horizontal lifelines, ladders and stepladders, lockout/tagout, machine guarding, rescue, roofing
- ▷ Scaffolding—developed user training programs, audits, design criteria, user policies and procedures
- ▷ Structural engineering for residential, commercial and industrial projects
- ▷ Structural specific and multi-discipline projects
- ▷ Suspended crane loads—develop training programs, audits, design criteria, policies and operating procedures,
- ▷ Suspended scaffolding—developed user training programs, audits, design criteria, user policies and procedures
- ▷ Window washing requirements—developed safety programs, audits, design protection criteria and foreseeable usage protection

## EDUCATION

MSCE—University of Cincinnati, 1978, Structural Engineering

BSCE—Ohio Northern University, 1977, Civil Engineering

## EMPLOYMENT HISTORY

### **SAFETY THROUGH ENGINEERING, INC.<sup>SM</sup>**

*December 2003 to Present*

President, Professional and Licensed Engineer, Certified Safety Professional, Certified Plant Engineer and Expert Witness.

### **ENGINEERING FIRM**

*May 1994 to December 2003*

Managing Principal of the Executive Council—highest level of engineering management and ownership responsibilities within the firm, major shareholder, and Principal-in-Charge of the Safety by Design® business team.

*January 1986*

Shareholder and Principal-in-Charge of the Industrial/Structural business team.

*January 1984*

Director of Industrial/Structural business team—responsible for overall management of the design of industrial, commercial and residential structural engineering projects.

*January 1981*

Project manager—designed multiple structural, residential, commercial and industrial projects.

*January 1980*

Field project engineer—provided inspection construction services for multiple structural projects.

*August 1978*

Staff structural engineer—designed individual projects.

## LICENSES

- ▷ Certified Safety Professional (CSP)—United States
- ▷ Certified Plant Engineer (CPE)—United States
- ▷ Professional Engineer (PE) in the following states:

- |                        |                 |                  |                  |
|------------------------|-----------------|------------------|------------------|
| • Alabama              | • Indiana       | • Montana        | • Rhode Island   |
| • Arizona              | • Iowa          | • Nebraska       | • South Carolina |
| • Arkansas             | • Kansas        | • Nevada         | • South Dakota   |
| • California           | • Kentucky      | • New Hampshire  | • Tennessee      |
| • Colorado             | • Louisiana     | • New Jersey     | • Texas          |
| • Connecticut          | • Maine         | • New York       | • Utah           |
| • Delaware             | • Maryland      | • North Carolina | • Vermont        |
| • District of Columbia | • Massachusetts | • North Dakota   | • Virginia       |
| • Florida              | • Michigan      | • Ohio           | • Washington     |
| • Georgia              | • Minnesota     | • Oklahoma       | • West Virginia  |
| • Illinois             | • Mississippi   | • Oregon         | • Wisconsin      |
|                        | • Missouri      | • Pennsylvania   |                  |

## AERIAL AND SCISSOR LIFTS

Fully trained in the regulations and standards governing aerial and scissor lifts and knowledgeable of their proper application. Past experience includes the selection, use and inspection of equipment and the qualifications to determine if equipment is being used as intended by the manufacturer, OSHA and ANSI. Knowledge of structural engineering, the operation of aerial and scissor lifts on construction and general industry sites, and training adds to expertise.

- ▷ Developed criteria for continuous monitoring program
- ▷ Developed safety training program, including customized manuals
  - Construction industry
    - ▶ Awareness
    - ▶ User
    - ▶ Competent person
  - General industry
    - ▶ Awareness
    - ▶ User
    - ▶ Competent person
- ▷ Evaluation of hazard identification programs
- ▷ Has written policies, program and procedures
- ▷ Performed job hazard analysis
- ▷ Recommendations for use and training

### **Courses**

- ▷ Aerial and Scissor Lift Operator Certified
- ▷ OSHA Course—Aerial Platform Lifts for Construction and General Industry ..... 1997
- ▷ Overhead Lifting and Rigging Safety ..... 1997

### **Instruction**

- ▷ Aerial and Scissor Lift Requirements by OSHA and ANSI
- ▷ Overhead Lifting and Rigging Safety ..... 1997

## ANCHORAGE POINTS FOR FALL ARREST PROGRAMS

### **Companies**

- ▷ Boeing Corporation
- ▷ Daimler Chrysler Corporation
- ▷ Delphi Automotive Systems
- ▷ Ford Motor Company
- ▷ General Motors
- ▷ Navistar
- ▷ Pacific Gas and Electric
- ▷ Procter and Gamble Company
- ▷ Puget Sound Naval Shipyard
- ▷ Saturn Corporation

### **Types of Services Provided**

- ▷ Fall arrest anchorage points—crane system
- ▷ Fall arrest and restraint
- ▷ Fall arrest HLL and anchorage points
- ▷ Identify fall arrest anchorage point locations, develop training manual
- ▷ Identify, design fall arrest anchorage point and machine systems
- ▷ Roof fall protection system programs

## CONCRETE FLOOR AND FORMWORK

### 1999–2003

Qualified Person nationally for the construction prefects for *CECO, Inc.* I designed, redesigned, reviewed, detailed, inspected and directed contractor limited means and methods for concrete formwork (flying forms and conventional shoring), including concrete roofs, concrete floors, stairs, ramps, vertical walls, pits, columns, foundations, etc.

### 1998–2003

Qualified Person internationally for a construction and renovation project for *P&G.* I designed, redesigned, reviewed, detailed, inspected and directed contractor means and methods for concrete conventional formwork shoring, including concrete roofs, concrete floors, vertical concrete walls, pits, tanks, columns, foundations, etc.

### 1997–2003

Qualified Person nationally for the construction prefects for *Baker Concrete, Inc.* I designed, redesigned, reviewed, detailed, inspected and directed contractor limited means and methods for concrete formwork (flying forms and conventional shoring), including concrete roofs, concrete floors, stairs, ramps, vertical walls, pits, columns, foundations, etc.

### 1993–2003

Structural Engineer and eventually Qualified Person consultant for *Shook, Inc.* I designed, redesigned, detailed, inspected and directed means and methods for concrete formwork, including vertical walls, columns, foundations and tanks. Worked with and directed the means and methods of some detailed concrete construction operations using conventional formwork.

### 1993–2003

Structural Engineer and Qualified Person consultant for *Danis.* I designed, detailed, inspected and directed means and methods for concrete formwork projects east of the Mississippi River (i.e., Sod Run, FL; Philadelphia, PA; Boston, MA; and Greenville, NC). Concrete formwork included conventional shoring, vertical walls, columns, foundations, pits, tanks, flying tables, etc.

### 1981–2003

Structural Engineer and eventually Qualified Person for *General Motors* with their in-house construction department and their general contractors. I designed, renovated, detailed, inspected and directed their means and methods for concrete conventional formwork shoring, including new factories, renovated factories, parts factories, machine foundations, vertical concrete walls, conventional shoring, concrete floors, roofs, tunnels, etc.

### 1978–1982

Structural Engineer and Qualified Person consultant for *Miller-Valentine, Inc.* I designed, detailed, inspected and directed means and methods for a mid-rise office building, for a low-rise office building and for have also designed warehousing concrete formwork, including flying forms, conventional shoring, vertical concrete walls, columns, foundations, etc.

## CONSTRUCTION AND DEMOLITION EXPERIENCE

Thirty (30+) plus years of experience in design and inspection of construction projects involving renovations and new construction of industrial facilities, structural components within facilities and commercial buildings. Experience includes:

- ▷ One and half (1.5) million square feet new construction of industrial facilities for General Motors.
- ▷ Four 25-ton top running crane systems for General Motors.

- ▷ New commercial store property for Prudential Insurance, including contractor performance review.
- ▷ Multiple building additions for Nova Steel Processing, including contractor performance reviews.
- ▷ Renovation of existing industrial facility for Delphi Chassis Systems.
- ▷ Renovation of existing factory to upgrade six 15-ton cranes to 20-tons each for Mead Paper.
- ▷ Reinforcement of US Steel facility and design of tanks and hoppers for mixing process.

Thirty (30+) plus years of experience with demolition projects in industrial, construction and commercial markets. Experience includes:

- ▷ Demolition and renovation of 1 million square-foot industrial facility for Shook, Inc.
- ▷ Demolition of buildings and tanks for Miami Paper.
- ▷ Demolition and renovation for 2 million square-foot industrial facility for use by General Motors.
- ▷ Demolition of 200,000 square-foot facility for Chrysler Corporation and design, inspection and contractor performance review for new facility that was built.

## CONSTRUCTION CRANES

Field inspected crane rigging, lifting location and methods for tilt-up buildings in Vandalia, Dayton and Cincinnati for two years, totaling approximately 3 million square feet of commercial and warehouse space.

## CRANE SYSTEM DESIGN AND INSPECTION

- ▷ Provided crane runway design reinforcement and inspection for Nova Steel.
  - Analyzed and reinforced existing facility
  - Four 30-ton top-running crane systems with crane clear spans of 100 feet and runway length of 800 feet
  - Provided field inspection
- ▷ Provided crane runway design along with crane support steel with caisson foundations.
  - 20-ton top-running crane with a crane clear span of 122 feet 6 inches and running length of 200 feet
  - Provided field inspection
- ▷ Provided crane runway design, crane support design and interlocking of trolley design for six 20-ton underhung crane systems.
  - Crane runway length of 600 feet
  - Crane clear spans of 100 feet
  - Provided roof truss reinforcement
  - Provided field inspection
- ▷ Provided Delphi with crane designs and inspection for over 200 underhung crane systems with capacities between 1 to 5 tons.
- ▷ Provided GM-Matamoros with six 25-ton top runway crane systems and crane support system with crane clear span of 35 feet and crane runway length of 700 feet.
- ▷ Provided GM-Pennsylvania with 25-ton top-running crane design with crane clear span of 40 feet and runway length of 150 feet.

## ENGINEERING EXPERIENCE

- ▷ Accident investigation and analysis
- ▷ Building shoring design and inspection
- ▷ Crane systems design and inspection
  - Top running—5 to 250 ton
  - Under hung—5 to 20 ton
- ▷ Design and analysis for wind, seismic, gravity loads

- ▷ Design, renovation, inspection—200 million square feet of amusement, aviation, commercial, industrial, maritime, military, residential and retail buildings
- ▷ Factory renovation and design
  - ◆ Improvements to existing facilities
  - ◆ New machine foundations
  - ◆ New crane systems
  - ◆ Cooling tower foundations
  - ◆ Dock enclosures
  - ◆ Working surface platforms
- ▷ Hazardous waste storage tanks
- ▷ Industrial, warehouse, and commercial concrete floors
- ▷ Injection molding machine mat foundations
- ▷ International building codes
- ▷ Machine foundations for dynamic and static machines
- ▷ Multilevel mixing platforms
- ▷ Plant layout design
- ▷ Platforms and mezzanines
- ▷ Safety design for factory and warehousing facilities
- ▷ Safety design recommendations for industrial machinery
- ▷ Safety regulations and standards
- ▷ Structural and civil engineering design and assessment
- ▷ Tank facilities

## FALL PROTECTION

- ▷ Anchorage point location programs
- ▷ Evaluation
- ▷ Fall hazard identification
- ▷ Fall Protection for Roof Workplace Activities
- ▷ Leading Edge Construction Programs and Procedures
- ▷ Qualified person
- ▷ Recommendation and design
- ▷ Rescue Programs and Procedures
- ▷ Safety audit—job safety analysis
- ▷ Safety training program—General Industry and Construction
  - ◆ At-Risk Worker
  - ◆ Awareness
  - ◆ Competent Person
  - ◆ Horizontal Lifeline
  - ◆ Horizontal Lifeline Procedures and Usage
  - ◆ Qualified Person
  - ◆ Rescue
- ▷ Written policies, programs and procedures

## FALL PROTECTION: CONCRETE CONTRACTORS FORMWORK LEADING EDGEWORK ACTIVITIES

Fall Protection:  
Concrete Contractors Formwork  
Leading Edgework Activities

### **Companies**

- ▷ Baker Concrete Company

- ▷ Ceco Concrete Construction, LLC
- ▷ Danis Construction—master plan for fall protection program
- ▷ Ferguson Construction
- ▷ Reynolds Metal Company

***Types of Services Provided***

- ▷ Anchor Points—standard details
- ▷ Documentation Video—script, editing, technical consultant for “Horizontal Lifeline Test and Verification of Design Procedures”
- ▷ Manual—anchorage points, procedures, rescue, evacuation
- ▷ Manual—horizontal lifeline: variations of spans and number of people on multiple spans
- ▷ Training—Competent Person, At-Risk Worker, Qualified Person

## **LADDER SAFETY: PORTABLE, EXTENSION, STEPLADDERS AND FIXED STAIRS**

Fully trained in the regulations and standards governing ladders and knowledgeable of their proper application. Past experience includes the selection, use, and inspection of ladders and the qualifications to determine if the ladders are being used as intended by the manufacturer, OSHA and ANSI. Structural engineering knowledge, use on construction and general industry sites and training add to expertise.

- ▷ Developed criteria for continuous monitoring program
- ▷ Developed safety training program, including customized manuals
  - Construction industry
    - ▶ Awareness
    - ▶ User
    - ▶ Competent person
  - General industry
    - ▶ Awareness
    - ▶ User
    - ▶ Competent person
- ▷ Evaluation of hazard identification programs
- ▷ Has written policies, programs and procedures
- ▷ Made recommendations for use and training
- ▷ Performed job hazard analysis

***Courses***

- ▷ OSHA Course 502—Update for Construction Industry Outreach Trainers .....2002
- ▷ OSHA Course 503—Update for General Industry Outreach Trainers .....2002
- ▷ OSHA/AGC, Mobile Section—Competency Awareness Training for Fall Hazards .....2002
- ▷ OSHA Fall Protection—Are You Sure About That? .....2000
- ▷ OSHA Course 503—Update for General Industry Outreach Trainers ..... 1998
- ▷ OSHA Course 502—Update for Construction Industry Outreach Trainers ..... 1998
- ▷ OSHA 500—Train-the-Trainer in Construction Industry..... 1996
- ▷ OSHA Course 325-001—Fall Protection Train-the-Trainer Course ..... 1995
- ▷ OSHA Course 325—Safety Standards for Fall Protection ..... 1995
- ▷ Competent Person in Fall Protection Technology—CAL/NEV Safety and Health ..... 1995
- ▷ OSHA Course 501—Train-the-Trainer in General Industry ..... 1994

## **MACHINE GUARDING SAFETY**

- ▷ 3 million square feet of machine guarding projects
- ▷ Continuous monitoring program
- ▷ Customized design methodology programs

- ▷ Developed machine guarding training programs, audits, design criteria, policies, procedures
- ▷ Evaluation of hazard programs
- ▷ Fall hazard identification programs
- ▷ Involvement with over 4,000 machines located at major manufacturing facilities
- ▷ Machine guarding courses, including:
  - Scientific Technologies, Inc., August 2003
  - Rockford Institute, March 2003
  - OSHA Course 204A Machinery and Machine Guarding Standards, February 2003
- ▷ Machine guarding training at GM Powertrain for supervisors, operators, maintenance, engineering
- ▷ Recommendation and design standards
- ▷ Safety audits—job safety analysis
- ▷ Safety training program: general industry awareness, machine operator, skilled trades, supervisors and engineering
- ▷ Written policies, program and procedures

## MARITIME SAFETY

- ▷ American Bureau of Shipping—Interwaterway Requirements
  - SOLAS Cargo Ship Safety Equipment Requirements
  - Mobile Offshore Drilling Unit Safety Requirements
- ▷ American National Standards Institute (ANSI)
- ▷ Code of Federal Regulations
  - Title 33: Navigation and Navigable Waters
  - Title 46: Shipping, Part 8—Vessel Inspection Alternatives, Subpart D—Alternate Compliance Program
- ▷ Maritime (Standards 29 CFR)
  - Part 1915: Occupational Safety and Health Standards for Shipyard Employment
  - Part 1917: Marine Terminals
  - Part 1918: Safety and Health Regulations for Long Shoring
- ▷ National Institute for Occupational Safety and Health (NIOSH)
- ▷ Occupational Safety and Health Administration (OSHA)
- ▷ U.S. Coast Guard
  - USCG Office of Design and Engineering Standards
- ▷ U.S. Coast Guard Approved Supplements
  - ABS Rules for Steel Vessels for Vessels Certificated for International Voyages (1 June 2003)
  - ABS Rules for Steel Vessels Under 90 Meters (295 Feet) in Length for Vessels Certificated for International Voyages (1 June 2003)
  - ABS Rules for Steel Vessels for Vessels on International Voyages (1 November 1999)
  - ABS Rules for Steel Vessels Under 90 Meters (295 Feet) in Length for Vessels on International Voyages (29 March 1999)
  - ABS Rules for Building and Classing Mobile Offshore Drilling Units and the 1989 IMO MODU Code (1 November 1998)
  - ABS Rules for Steel Vessels for Vessels on International Voyages (1 August 1997)
  - DNV Supplement, Revision 10 (October 2003)
- ▷ U.S. Coast Guard Publications
  - Navigation and Vessel Inspection Circular No. 2-95 “Alternate Compliance Program”
  - Marine Safety Manual Vol. II, Section B, CH. 9
  - Federal Register Vol. 60 No. 23 (February 3, 1995) “ACP and ABS Pilot Program”
  - Federal Register Vol. 61 No. 250 (December 27, 1996) “ACP and Recognized Societies”
  - Federal Register Vol. 63 No. 30 (February 13, 1998) “ACP Supplement Development Process”
  - Supplement Review and Revision Process
- ▷ U.S. Department of Homeland Security

## RENOVATION OF MAJOR FACTORIES

### **Companies**

- ▷ Daimler Chrysler Corporation (Regional)
- ▷ Delphi Automotive Systems ( International and National)
- ▷ Ford Motor Company (Regional)
- ▷ General Motors (International and National)

### **Types of Services Provided**

- ▷ Design Improvements to Existing Facilities
- ▷ Design New Machine Foundations
- ▷ Design New Crane Systems
- ▷ Design Cooling Tower Foundations
- ▷ Design Dock Enclosures
- ▷ Design Working Surface Platforms

## RESIDENTIAL ROOFING EXPERIENCE

- ▷ Four generations of residential contractors.
- ▷ Started own roofing construction company with my father.
- ▷ At age sixteen (16) formed “Wright Brothers Construction” with my brother. Work consisted of small commercial, residential and barn roofing projects.
- ▷ Types of roofs: standing seam metal roof, corrugated metal roof, rolled roofing, shingle roofing, slate roofing, hot four-ply with gravel roof, and hot four-ply, hot two-ply and hot three-ply roofing systems.
- ▷ Throughout lifetime, continue to do roofing projects for non-profit organizations, friends and family (work done in Michigan, Ohio, Kentucky, West Virginia, Florida, Tennessee, South Carolina and Indiana).

## SAFETY PROGRAMS

- ▷ 3 million square feet—machine guarding programs
- ▷ 16 million square feet—working surface/platforms structural integrity
- ▷ 33 million square feet—roof deck structural integrity
- ▷ 200 million square feet—fall protection programs
- ▷ Aerial and scissor lifts
- ▷ Design liaison
- ▷ Ladder safety—portable and fixed
- ▷ Rescue
- ▷ Safety regulations, standards and industry best practices
- ▷ Scaffolding
- ▷ Systems design and analysis
- ▷ Trainer

## SCAFFOLDING/SUSPENDED SCAFFOLDING

Fully trained in the regulations and standards governing scaffolding and knowledgeable of its proper application. Past experience includes the erection, use and disassembling of scaffolding and the ability to identify if equipment is being used as intended by the manufacturer, OSHA and ANSI. Knowledge of structural engineering, scaffolding training and construction experience adds to expertise.

### **Lecturing Engagements**

- ▷ Amusement Industry Manufacturers and Suppliers International (AIMS) Safety Seminar and Certification Testing .....2001–2003
- ▷ West Central Ohio Safety Council; Why Falls Are Still Killing Our Workers ..... 1999
- ▷ American Contractors Insurance Group, Inc.; Contractor Education Series on Fall Protection Requirements. Scaffolding. Video for Safety/Claims Management Workshop ..... 1997

### **Courses**

- ▷ OSHA/AGC, Mobile Section: Competency Awareness Training for Fall Hazards .....2002
- ▷ OSHA Course 502: Update for Construction Industry Outreach Trainers.....2002
- ▷ OSHA Course 503: Update—General Industry Outreach Trainers.....2002
- ▷ OSHA Fall Protection: Are You Sure About That? .....2000
- ▷ OSHA Course 502: Update for Construction Industry Outreach Trainers..... 1998
- ▷ OSHA Course 503: Update for General Industry Outreach Trainers ..... 1998
- ▷ OSHA 500: Train-the-Trainer in Construction Industry ..... 1996
- ▷ Competent Person in Fall Protection Technology: CAL/NEV Safety and Health..... 1995
- ▷ OSHA Course 325-001: Fall Protection Train-the-Trainer Course..... 1995
- ▷ OSHA Course 325: Safety Standards for Fall Protection..... 1995
- ▷ OSHA Course 501: Train-the-Trainer in General Industry ..... 1994
- ▷ OSHA Fall Protection in the Construction Industry: Current Enforcement Emphasis ..... 1993
- ▷ Principles and Applications of Elevated Fall Hazard Control by RTC ..... 1993

## **TRAINING SAFETY PROGRAMS: INCLUDES CUSTOMIZED TRAINING MANUALS**

### **Awareness Training**

- ▷ Honda of America (National) ..... 1999
- ▷ Pacific Gas and Electric..... 1999
- ▷ NAVFAC OSHA Support Office (National) ..... 1996

### **Competent Person Training**

- ▷ Honda Manufacturing of Indiana ..... 2009
- ▷ Cedar Fair..... 2009
- ▷ Daimler Chrysler Corporation ..... 2007
- ▷ GM Powertrain—Willow Run ..... 2007
- ▷ OSHA Ohio Fall Protection Equipment Specific Training..... 2003
- ▷ Paramount Amusement Parks (National) ..... 2000–2003
- ▷ Delphi Automotive Systems, Dayton, OH (National) ..... 1999–2003
- ▷ Honda of America Manufacturing (Regional) ..... 1999–2003
- ▷ Procter & Gamble Company (Global)..... 1998–2003
- ▷ OSHA Georgia Office ..... 2001
- ▷ Puget Sound Naval Shipyard (Regional)..... 1998
- ▷ Saturn Corporation (Regional)..... 1998
- ▷ Pacific Gas & Electric (Regional)..... 1997
- ▷ Reynolds Metal Company (Regional)..... 1996–1997
- ▷ Boeing Company (National) ..... 1996
- ▷ CON-STEEL, Inc., General Contractors (National) ..... 1996
- ▷ Navistar International (Regional) ..... 1996
- ▷ IUE—General Motors (National)..... 1995
- ▷ Danis Construction Company (National) ..... 1995–1993

### **Qualified Person Training**

- ▷ Honda Manufacturing of Indiana ..... 2009
- ▷ Cedar Fair..... 2009

▷ 121 <sup>st</sup> Air Refueling Wing (Regional) .....	2007
▷ GM Powertrain—Willow Run .....	2007
▷ 121 <sup>st</sup> Air Refueling Wing (Regional) .....	2006
▷ Procter and Gamble Corporation (Global).....	2000
▷ Puget Sound Naval Shipyard (Regional).....	1998
▷ Saturn Corporation (Regional).....	1998
▷ Navistar (Regional).....	1997
▷ The Reynolds Metal Company (Regional) .....	1997
▷ The Boeing Company (National) .....	1996

***Machine Guarding Training***

▷ GM Powertrain (Regional): Supervisors, Operators, Maintenance and Engineering.....	2003
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## ARTICLES

<i>Facility Safety Management</i> .....	2010
“Sustainable Safety: A Lifecycle Strategy for Fall Prevention”	
<i>The Grey House Safety &amp; Security Directory</i> .....	2008
Chapter 3: “Safety Steward: Training Takes a New Direction”	
<i>The Grey House Safety &amp; Security Directory</i> .....	2008
Chapter 7: “Are You Rescue-Ready for Fall Protection?”	
<i>The Grey House Safety &amp; Security Directory</i> .....	2008
Chapter 7: “Why We Need Managed Fall Protection”	
<i>The Grey House Safety &amp; Security Directory</i> .....	2008
Chapter 10: “Machine Guarding Safety from Purchase to Programs”	
<i>Industrial Safety &amp; Hygiene News Magazine</i> .....	2007
“Take Your Safety Training to New Heights: Fall Protection”	
<i>Occupational Hazards Magazine</i> .....	2007
“New Frontiers in Fall Protection Equipment”	
<i>Facility Safety Management</i> .....	2006
“Maverick Thinking: Fall Protection Through Engineering, Better Training”	
<i>Facility Safety Management</i> .....	2006
“Safety Training: Hard to Be Successful Without It”	
<i>Occupational Health &amp; Safety</i> .....	2006
“OSHA’s Multi-Employer Work Site Policy: Who’s on First?”	
<i>Professional Safety</i> .....	2006
“Fall Prevention Strategies: Four Key Areas to Consider in Program Development”	
<i>Occupational Hazards Magazine</i> .....	2006
“After the Fall: Will Your Rescue Program Leave Workers Hanging?”	
<i>Occupational Hazards Magazine</i> .....	2006
“ANSI Z359: Defining Managed Fall Protection”	
<i>The Grey House Safety &amp; Security Directory</i> .....	2006
Chapter 3: “Safety Stewards: Training Takes a New Direction”	
<i>The Grey House Safety &amp; Security Directory</i> .....	2006
Chapter 7: “Are You Rescue-Ready for Fall Protection?”	
<i>Facility Safety Management</i> .....	2005
“Changing the Lights (and a whole lot more) in Your Facility: Engineering for Safety in the Workplace”	
<i>Facility Safety Management</i> .....	2005
“Hierarchy of Fall Protection: Engineering and Planning for Safety in the Workplace”	
<i>Transmission &amp; Distribution World Magazine</i> .....	2005
“New Fall Protection ANSI Standards Proposed”	
<i>Safety &amp; Health Magazine</i> .....	2005
“Warning: Hanging Tough Can Kill You”	
<i>The Grey House Safety &amp; Security Directory</i> .....	2005
“Machine Guarding: A Case Study of the Industrial Client, OSHA and Safety Consultant”	
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“Safety Training as a Knowledge Economy”	
<i>Safety &amp; Health Magazine</i> .....	2004
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<i>Construction Magazine</i> .....	2004
“The Managed Fall Protection Program for Construction”	
<i>Industrial Safety &amp; Hygiene News Magazine</i> .....	2004
“Is Your Competent Person Truly Competent?”	

<i>Occupational Health &amp; Safety Magazine</i> .....	2004
"Revised Z-359 Takes Shape"	
<i>Occupational Health &amp; Safety Magazine</i> .....	2004
"Horizontal Lifelines: Don't Leave Them Hanging"	
<i>Occupational Hazards Magazine</i> .....	2004
"Will a New ANSI Standard Rescue Fall Protection?"	
<i>Occupational Hazards Magazine</i> .....	2004
"Getting Started with Managed Fall Protection"	
<i>Occupational Safety &amp; Health Reporter, BNA, June 04, 2002</i> .....	2002
"AIHCE: Preventing Falls by Design"	
<i>Occupational Safety &amp; Health Reporter, BNA, February 21, 2002</i> .....	2002
"Cultural Shift Required to Introduce Safety During Project Planning Stages"	
<i>Occupational Safety &amp; Health Reporter, BNA, September 27, 2001</i> .....	2001
"Safety Experts Recommend the Use of the Hierarchy of Control to Prevent Falls"	
<i>National Safety Council Safety &amp; Health Magazine</i> .....	1996
"Don't Get Caught Without a Net"	

## MEMBERSHIPS

- ▷ American Concrete Institute (ACI)
- ▷ American Forest and Paper Association (AF&PA)
- ▷ American Industrial Hygiene Association (AIHA)
- ▷ American Institute of Steel Construction (AISC)
- ▷ American National Standards Institute—Standards Committee Member (ANSI)
  - A1264.1-2007: “Safety Requirements for Workplace Walking/Working Surfaces and Their Access; Workplace Floor, Wall and Roof Openings; Stairs and Guardrails Systems” —Safety Standards for Floor and Wall Openings, Railings, and Toeboards and Fixed General Industrial Stairs Committee Member
  - Z117: “Safety Requirements for Confined Spaces”—Confined Space Committee Member
  - Z359—Fall Protection Full Committee Member
  - Z359.0-2007: “Definitions and Nomenclature Used for Fall Protection and Fall Arrest”—Vice Chairman for Managed Fall Protection Program Subcommittee
  - Z359.1-1992 (R1999): “Historical Document”
  - Z359.1-2007: “Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components”—Subcommittee Member
  - Z359.2-2007: “Minimum Requirements for a Comprehensive Managed Fall Protection Program”—Subcommittee Member
  - Z359.3-2007: “Safety Requirements for Positioning and Travel Restraint Systems”—Subcommittee Member
  - Z359.4-2007: “Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components”
  - Z359.6-200X: “Safety Requirements and Specifications for Personal Fall Arrest Systems (PFAS)”
  - Z359.8-200X: “Safety Requirements for Rope Access”
  - Z359.12-200X: “Safety Requirements for Connecting Components for Personal Fall Arrest Systems (PFAS)”
  - Z359.15-200X: “Safety Requirements for Vertical Lifelines for Personal Fall Arrest Systems (PFAS)”
  - Z359.16-200X: “Safety Requirements for Fall Arresters for Personal Fall Arrest Systems (PFAS)”
  - Z359.17-200X: “Safety Requirements for Horizontal Lifelines for Personal Fall Arrest Systems (PFAS)”
  - Z359.18: Safety Requirements for Anchorage Connectors for Personal Fall Arrest Systems (PFAS) Subcommittee
  - Z490: Criteria for Best Practices in Safety, Health and Environmental Training Committee
- ▷ American Society of Civil Engineers (ASCE)
- ▷ American Society of Safety Engineers (ASSE)
- ▷ American Welding Society (AWS)
- ▷ American Wood Council (AWC)
- ▷ Amusement Industry Manufacturers and Suppliers International (AIMS)
- ▷ Association for Facilities Engineering (AFE)
- ▷ Association of Iron and Steel Engineers (AISE)
- ▷ ASTM Committee F24, Amusement Rides and Devices
- ▷ ASTM Committee F24.24 on Design and Manufacture: New Ride Fall Protection Working Group Chairman
- ▷ Certified Plant Engineer (through Association for Facilities Engineering) (CPE)
- ▷ Cincinnati Society of Safety Engineers
- ▷ Dayton Society of Professional Engineers
- ▷ International Society for Fall Protection (ISFP)
- ▷ National Fire Protection Association (NFPA)
- ▷ National Safety Council (NSC)
- ▷ National Society of Professional Engineers (NSPE)
- ▷ Institute for Safety Through Design Institute—Charter Member (ISTD)
- ▷ The Masonry Society (TMS)
- ▷ United States Technology Advisory Group (U.S. TAG) to ISO/TC94/SC4 Delegation

## SAFETY MANUALS

The Procter and Gamble Company .....	1999
Fall Prevention and Awareness Manual	
Delphi Saginaw Steering Systems, Athens, AL .....	1998
Manual	
Saturn Corporation.....	1998
Fall Prevention and Awareness Manual	
Danis Construction Company .....	1997
Fall Arrest Manual	
The Reynolds Metal Company.....	1997
Developed three volumes of design charts and tables for fall protection	
UAW Ford.....	1996
Reviewed and edited the UAW-Ford Fall Protection Process: "Working at Heights"	
(Worker-at-risk training manual for competent person trainers)	
Harrison Thermal System Division of General Motors.....	1994
Hazard Awareness Manual for Upper Management	