



CHARLES C. TEMPLE, P.E. PROFESSIONAL BIOGRAPHICAL OUTLINE

BACKGROUND

Mr. Temple is a Licensed Professional Engineer and earned both Bachelor of Science and Master of Science degrees in Mechanical Engineering. He has over 25 years of experience providing expert engineering consulting services in evaluating the design and safety of machines and products involved in incidents resulting in personal injury or property damage. Mr. Temple uses his expertise in mechanical engineering, safety science, human factors, code compliance issues, and forensic investigation to analyze a wide range of industrial machinery, construction equipment, HVAC and plumbing systems, vehicles, and consumer products. He specializes in workplace safety issues and is highly qualified in material handling equipment, including conveyors, forklifts, and cranes. Mr. Temple has investigated several thousand workplace accidents and mechanical failures and has extensive experience in forensic engineering practices and evidence handling procedures.

AREAS OF SPECIALTY

- Forensic Engineering
- Mechanical Failure
- Industrial Safety
- Consumer Products
- Code Compliance
- Material Handling
- Ingress/Egress
- Warnings/Instructions
- Accident Investigation
- Machine Guarding
- Construction Safety
- Plumbing/HVAC
- OSHA
- Fall Protection
- Human Factors
- Evidence Handling

EDUCATION

- Master of Science in Mechanical Engineering, Northwestern University, 1991
- Bachelor of Science in Mechanical Engineering, Illinois Institute of Technology, 1987

PROFESSIONAL CERTIFICATION

- Licensed Professional Engineer, State of Illinois
- Certified Forklift Operator, January 2014
- Certified Overhead Crane Operator, May 2011
- Qualified Rigger – Level 1, May 2011
- Qualified Signal Person, May 2011

PROFESSIONAL EXPERIENCE

June 2012 – Present | ARCCA Incorporated | Director of Failure Analysis

November 2010 – May 2012 | LWG Consulting, Inc. | Senior Forensic Engineer



February 2006 – November 2010 | Temple Engineering, Inc. | President & Principal Engineer

June 2004 – January 2006 | Applied Kinetics Corp. | Senior Engineer

January 2004 – June 2004 | Siebert Engineers, Inc. | Senior Engineer

January 2002 – January 2004 | ARCCA, Incorporated | Director of Midwest Engineering

October 1993 – December 2001 | Polytechnic, Inc. | Senior Engineer

April 1991 – January 1993 | L.J. Broutman & Associates, Ltd. | Project Engineer, Composites & Adhesives

May 1987 – April 1991 | Triodyne, Inc. | Project Engineer

PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers, Member
- American Society of Safety Engineers, Professional Member
- American Society for Testing and Materials, Participating Member
- National Society of Professional Engineers, Licensed Member

CONTINUING EDUCATION

- Forklift Operator Training, Apex Material Handling, January 2014
- The Bolted Joint, ASME, March 2013
- Overhead Crane Operator Training, Engineered Systems, May 2011
- Qualified Rigger – Level I, Diamond Tool, May 2011
- Qualified Signal Person, Diamond Tool, May 2011
- Fall Protection, ASSE, March 2008
- Leadership Conference, ASSE, October 2006
- Industrial Engineering, Univ. of Wisconsin, September 2006
- PLC Basics, Performance Training Associates, September 2006
- Copyrights and Trademarks, ASME, June 2006
- Accident Investigation 2, Northwestern University, September 2003
- Accident Investigation 1, Northwestern University, March 2003
- Essential Aspects of an Effective Product Safety Program, Univ. of Wisconsin, July 2001
- How to Use FMEA, Univ. of Wisconsin, March 2001
- The Role of Warnings and Instructions, Univ. of Wisconsin, September 1999
- Electrical Ladder Drawings, Performance Training Associates, February 1998
- ASME A17.1 Safety Code for Elevators and Escalators, ASME, January 1998
- Introduction to Elevators and Escalators, ASME, July 1996

- Principles of Safety and Health for Small Businesses, National Safety Council, April 1995
- Principles of Acoustics and the Measurement of Sound, Bruel & Kjaer, October 1994
- Machine Safeguarding, Precision Metalforming Association, August 1994
- AutoCAD I & II, Wright College, Fall 1993 & Spring 1994
- Introduction to C Programming, Wright College, Fall 1993
- Strain Gage Selection and Installation, Society for Experimental Mechanics, March 1990
- Electro-Optics, Fiber Optics and Lasers, George Washington Univ., January 1989

PUBLICATIONS

Temple, Charles C., *Guarding, Warning and Safety Hierarchy: an Overview*, Subrogator, June, 2012.

Temple, Charles C., *Investigating Workplace Incidents*, Subrogator, October, 2007.

Temple, Charles C., *Looking Past the Obvious: Granulator Case Study*, Subrogator, February, 2006.

Temple, Charles C., *Investigation, Evidence and ASTM*, Subrogator, October, 2005.

Temple, Charles C., *Investigative Photography: Film vs. Digital*, Subrogator, June, 2005.

Schultz, George A., and **Temple, Charles C.**, *Understanding Conveyor Related Accidents*, Subrogator, June, 2004.