



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

BACKGROUND

Charles Temple is a Licensed Professional Engineer and earned both Bachelor of Science and Master of Science degrees in Mechanical Engineering. He is also a Certified Fire and Explosion Investigator. He has been 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 for more than 32 years. 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, consumer products, and premises issues. He specializes in construction and workplace safety and is highly qualified in scaffolding, conveyors, forklifts, and cranes. Mr. Temple has investigated several thousand workplace accidents and mechanical failures and has extensive experience in forensic engineering practices, evidence handling procedures and standards, and claim handling and litigation support.

AREAS OF SPECIALTY

- Mechanical Engineering
- Failure Analysis
- Industrial Safety
- Construction Safety
- Forensic Engineering
- Accident Investigation
- Accident Reconstruction
- Fire Investigation
- Evidence Procedures
- Products Liability
- Premises Liability
- Code Compliance
- Machine Guarding
- Material Handling Equipment
- Aerial Work Platforms
- Scaffolding
- Ladders
- Fall Protection
- Ingress/Egress
- Door Systems
- Stairways
- Power Tools
- Warnings and Instructions
- Human Factors
- OSHA
- NY Labor Law

EDUCATION

- Master of Science in Mechanical Engineering, Northwestern University, 1991
- Bachelor of Science in Mechanical Engineering, Illinois Institute of Technology, 1987
Study Abroad, Institut National des Sciences Appliquees, Lyon, France, 1985-86 academic year

PROFESSIONAL LICENSURE

- Licensed Professional Engineer: IL, FL, NY, PA, WA, WI



PROFESSIONAL CERTIFICATIONS

- Certified NYC DOB Suspended Scaffold User, Aug 2019
- Certified BOSCH CDR Technician, Oct 2018
- Certified Fire and Explosion Investigator, Mar 2017
- OSHA 30-hr Construction Safety and Health Card, Aug 2016
- Certified NYC DOB Supported Scaffold Erector, Aug 2015
- Certified NYC DOB Supported Scaffold User, Jul 2015
- Certified Aerial Work Platform Operator, May 2015
- Certified Forklift Operator, Jan 2014
- Certified Overhead Crane Operator, May 2011
- Qualified Rigger – Level 1, May 2011
- Qualified Signal Person, May 2011

PROFESSIONAL EXPERIENCE

ARCCA Inc. | Director of Failure Analysis | Jun 2012 – Present

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

Temple Engineering, Inc. | President & Principal Engineer | Feb 2006 – Nov 2010

Applied Kinetics Corp. | Senior Engineer | Jun 2004 – Jan 2006

Siebert Engineers, Inc. | Senior Engineer | Jan 2004 – Jun 2004

ARCCA, Inc. | Director of Midwest Engineering | Jan 2002 – Jan 2004

Polytechnic, Inc. | Senior Engineer | Oct 1993 – Dec 2001

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

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

PROFESSIONAL ORGANIZATIONS

- American Society of Mechanical Engineers (ASME), Member 25+ years
- American Society of Safety Professionals (ASSP), Professional Member 25+ years
[formerly known as American Society of Safety Engineers (ASSE), 1911 to May 2018]
- American Society for Testing and Materials (ASTM), Participating Member
- Illinois Society of Professional Engineers (ISPE), Licensed Member
- International Code Council (ICC), Building Safety Professional Member
- National Association of Fire Investigators (NAFI), Member
- National Fire Protection Association (NFPA), Member



- National Safety Council (NSC), Corporate Member
- National Society of Professional Engineers (NSPE), Licensed Member

CONTINUING EDUCATION

- Chicago Building Code Update, Half Moon Education, Nov 2019
- NYC DOB 16-hr Suspended Scaffold User Training, TSC Training Academy, Aug 2019
- Trench Safety, National Safety Education Center – Northern Illinois University, Apr 2019
- Traffic Crash Reconstruction 3, Northwestern University – Center for Public Safety, Feb-Mar 2019
- CDR Technician, Northwestern University – Center for Public Safety, Oct 2018
- Understanding NYC Building Codes, New York University, Jun-Jul 2018
- NYC DOB 8-hr Construction Site Safety Coordinator Training, TSC Training Academy, Oct 2017
- Traffic Crash Reconstruction 2, Northwestern University – Center for Public Safety, May 2017
- National Fire, Arson and Explosion Investigation Training, NAFI, Mar 2017
- Fall Protection Training, ASSE, Feb 2017
- Traffic Crash Reconstruction 1, Northwestern University – Center for Public Safety, Oct 2016
- OSHA 30 Hour Construction, Click Safety, Aug 2016
- Mechanical Forensic Engineering, Half Moon Education, Aug 2016
- Vehicle Dynamics, Northwestern University - Center for Public Safety, Apr 2016
- Understanding and Troubleshooting Hydraulics, TPC Trainco, Apr 2016
- NYC DOB 32-hr Supported Scaffold Erector Training, TSC Training Academy, Aug 2015
- NYC DOB 4-hr Supported Scaffold User Training, TSC Training Academy, Jul 2015
- Aerial Work Platform Operator Training, National Lift Truck, May 2015
- Basic Handgun Safety Training, Maxon, Oct 2014
- Forklift Operator Training, Apex Material Handling, Jan 2014
- The Bolted Joint, ASME, Mar 2013
- Fire Investigation Seminar, IAAI, Jan 2012
- 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, Mar 2008
- Industrial Engineering, University of Wisconsin - Madison, Sep 2006
- PLC Basics, Performance Training Associates, Sep 2006
- Copyrights and Trademarks, ASME, Jun 2006
- Accident Investigation 2, Northwestern University - Center for Public Safety, Sep 2003
- Accident Investigation 1, Northwestern University - Center for Public Safety, Mar 2003
- Essential Aspects of an Effective Product Safety Program, University of Wisconsin - Madison, Jul 2001
- How to Use FMEA, University of Wisconsin - Madison, Mar 2001



- The Role of Warnings and Instructions, University of Wisconsin - Madison, Sep 1999
- Electrical Ladder Drawings, Performance Training Associates, Feb 1998
- ASME A17.1 Safety Code for Elevators and Escalators, ASME, Jan 1998
- Introduction to Elevators and Escalators, ASME, Jul 1996
- Principles of Safety and Health for Small Businesses, National Safety Council, Apr 1995
- Principles of Acoustics and the Measurement of Sound, Bruel & Kjaer, Oct 1994
- Machine Safeguarding, Precision Metalforming Association, Aug 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, Mar 1990

PUBLICATIONS

Temple, Charles C., *Current State of ASTM Investigation and Evidence Standards*, Subrogator, Feb, 2016.

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

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

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

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

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

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