

Charles C. Temple, P.E., DFE
Senior Forensic Engineer and Safety Consultant

BACKGROUND

Charles Temple is a Licensed Professional Engineer (PE) with both Bachelor's and Master's degrees in Mechanical Engineering. He is also a Board-Certified Diplomate in Forensic Engineering (DFE) under the requisites accredited by the Council on Engineering & Scientific Specialty Boards. He has earned a number of certifications in safety, equipment and machine operation, and vehicle accident and fire investigation. Charles evaluates the design and safety of machines and products involved in incidents resulting in personal injury or property damage. He applies his expertise in mechanical engineering, safety science, human factors, code compliance and forensic investigation to analyze a wide range of industrial machinery, construction equipment, vehicles, consumer products, and premises issues. Charles specializes in construction and workplace safety and is highly qualified to address technical issues involving conveyors, forklifts, scaffolding and cranes. He also has extensive experience in forensic engineering practices, evidence handling procedures and standards, and claim handling and litigation support. Along with general workplace safety and OSHA compliance issues, Charles' areas of technical expertise include:

- **Industrial Safety:**
Machine Guarding, Material Handling, Forklifts, Lock Out/Tag Out, Warnings and Instructions
- **Construction Safety:**
Scaffolds, Aerial Work Platforms, Ladders, Fall Protection, Cranes, Rigging, Construction Equipment, Power Tools, NY Labor Law
- **Facilities Safety:**
Conveyors, Dock systems, Overhead Doors, Automatic Doors, Stairways, Ingress/Egress
- **General Safety:**
ANSI, ASTM, Building Codes, Incident Investigations, Slip/Trip/Fall

EDUCATION

Master of Science, Mechanical Engineering, Northwestern University, Evanston, IL

Bachelor of Science, Mechanical Engineering, Illinois Institute of Technology, Chicago, IL

PROFESIONAL LICENSURE

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

PROFESSIONAL EXPERIENCE

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|----------------|-----------------------------|---------------------------------|
| 2021 – Present | Exigent Group Limited | Senior Forensic Engineer |
| 2012 – 2021 | ARCCA, Inc. | Director of Failure Analysis |
| 2010 – 2012 | LWG Consulting, Inc. | Senior Forensic Engineer |
| 2006 – 2010 | Temple Engineering, Inc. | President, Principal Engineer |
| 2004 – 2006 | Applied Kinetics Corp. | Senior Engineer |
| 2004 – 2004 | Siebert Engineers, Inc. | Senior Engineer |
| 2002 – 2004 | ARCCA, Inc. | Director of Midwest Engineering |
| 1993 – 2001 | Polytechnic, Inc. | Senior Engineer |
| 1991 – 1993 | L.J. Broutman & Assoc, Ltd. | Project Engineer |
| 1987 – 1991 | Triodyne, Inc. | Project Engineer |

PROFESSIONAL CERTIFICATIONS

- Certified Fire and Explosion Investigator, Mar 2022 (recertified)
- Certified NYC DOB Supported Scaffold Erector, Aug 2020 (recertified)
- 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 MEMBERSHIPS

- American Society of Mechanical Engineers (ASME), Member 30+ Years

- American Society of Safety Professionals (ASSP), Professional Member 30+ Years
- 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 Academy of Forensic Engineers (NAFE), Senior Member
- National Association of Fire Investigators (NAFI), Member
- National Fire Protection Association (NFPA), Member
- National Safety Council (NSC), prior Corporate Member
- National Society of Professional Engineers (NSPE), Licensed Member

CONTINUING EDUCATION

- Fire Investigation Training, NAFI, Feb 2022
- EDR Use in Traffic Crash Reconstruction, Ruth Consulting, Mar 2021
- Pedestrian/Bicycle Crash Investigation, University of North Florida, - IPTM, Jan-Feb 2021
- International Building Code Means of Egress, ICC, Nov 2020
- NYC DOB 8-Hour Supported Scaffold Erector Refresher, TSC Training Academy, Aug 2020
- Chicago Building Code Update, Half Moon Education, Nov 2019
- NYC DOB 16-Hour 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-Hour 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
- NYC DOB 32-Hour Supported Scaffold Erector Training, TSC Training Academy, Aug 2015
- NYC DOB 4-Hour Supported Scaffold 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 1, 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, Sept 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 and 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