



P.O. Box 89, 26 Grove Rd.
Cromwell, CT 06416
Phone 203.494.3058 Fax 203.245.7684
E-mail jcissell@investigativeengineering.com

Jeffery A. Cissell P.E.

PROFESSIONAL LICENSES & CERTIFICATIONS

Professional Engineer – Connecticut, Rhode Island, Massachusetts, New York
National Association of Fire Investigators, CFEI, CFII (Instructor)
Haag Roofing Expert, Commercial and Residential Roofs, Wind Damage Roofing Consultant Institute, member
Accident Reconstruction Expert, Northwestern University
International Code Counsel, Member
American Wood Counsel, Member
Human Factors and Ergonomics Society, Member (technical groups)
Forensics Professional
Environmental Design
Safety
Surface Transportation
National Fire Protection Association, Member

EDUCATION

1980 - 1981 Utah State University Logan, Utah
Master of Science, Civil & Environmental Engineering
1977 - 1979 Utah State University Logan, Utah
Bachelor of Science, Civil Engineering
1974-1976 Alfred State College Alfred, New York
Associates Applied Science, Construction Technology

Seminars and Cont'd education

Actively participate in webinars and seminars related to Safety, Codes and structures
March 26, 2015; Trial Tactics Series, Mock trial Defense Expert, Eric Liederer, Connecticut Defense Lawyers Association, wrote Fact Brief and Defense Experts Analysis of Case, was deposed by Panel for purposes of training Insurance Defense Bar attorneys.
February 2012, Presenter, CT Building Officials, Forensic Investigations of Structural Failures, Fires and Premise Liability.
December 2011, Haag Engineering, Commercial and Residential Roof Expert Certification and Advanced Training, Dallas, Texas
June 15, 2010, Presenter Workman's Compensation Accidents, Mohegan Sun, topic, Subrogation Recovery Potential – Opportunities observed through Forensic Engineering.
June 2009, Northwestern University, Accident Reconstruction for Engineers, Phoenix Arizona, Certificate Provided
October 2008 Massachusetts Special Investigation Unit Association –

Presenter - Fire Investigation Patterns and Causes

November 2007 Investigative Engineering Association, Conference Presenter

June - 2005 Professional Investigative Engineers Association, Dallas, Texas. Investigating Mold, Fire Cause and Origin, Structural, Blasting, Product Liability, Liability and accident reconstruction claims – Instructor 24 hours.

February - 2005 Professional Investigative Engineers Association, Providence, Rhode Island. Investigating Mold, Fire Cause and Origin, Structural, Blasting, Product Liability, Liability and accident reconstruction claims – Instructor 24 hours.

October - 2004 Professional Investigative Engineers Association, Providence, Rhode Island. Investigating Mold Origin and Cause Claims. Instructor.

July - 2004 Professional Investigative Engineers Association, Rochester, New York. Investigating Mold, Fire Cause and Origin, Structural, Blasting, Product Liability, Liability and accident reconstruction claims – Instructor 24 hours.

March - 2004 Professional Investigative Engineers Association, Windsor, Ontario, Canada. Investigating Liability and accident reconstruction claims - Instructor.

2004 National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program, sponsored by National Association of Fire Investigators at Eastern Kentucky University

2004 Certified Fire Investigator Instructor Program, Ron Hopkins, Assoc. Professor, Eastern Kentucky University.

Explosion Investigation and Analysis, Explosion Theory and Dynamics, Ron Hopkins, Assoc. Professor, Eastern Kentucky University. March 2004

Identification and Recognition of Commercial and Military Explosives, Ron Hopkins, CFEI, CFII, Assoc. Professor, Eastern Kentucky University. March 2004

Diffuse Fuel Explosion Investigation, Patrick M. Kennedy, CFEI, CFII, National Association of Fire Investigators. March 2004

Basic Electricity and the Investigation of Electrical Fires, Daniel L. Churchward, CFEI, Kodiak Enterprises, Inc., Eastern Kentucky University, NAFI Seminar, 2004

Training Seminar and Certification – Fire and Arson Investigations, Peter Vallas Sr., Fort Lauderdale, FL.

Training Seminar – Liability Claims Investigations, Slip, Trip and Fall, through Investigative Engineering Associates, Inc., Fort Lauderdale, FLA.

Training Seminar and Certification – Mold Investigation and Restoration, Bio-Chem International, Fort Lauderdale, FL.

Training Seminar – Bio-Engineering, Hartford, CT

Training Seminar – Advanced Hydrology and Computer Modeling

Training Seminar – Hazardous Waste Safety Certifications

Training Seminar – OSHA – Confined Space Regulations

Training Seminar – OSHA – Safety Compliance in Workplace

Training Seminar – DEP – Storm Water Management Plan

Training Seminar – ARMY COE – Flood Plain Management

**Professional
experience**

2002 - present

Cissell Investigative Engineering, Principal. Projects include total project management and design of municipal, industrial, commercial and residential developments, environmental engineering, remediation, quarry design, storm

water management, sports field and irrigation design. Some projects include:

- Great American Insurance - Forensic Engineering on residential and commercial losses, including premise liability, fire cause and origin, arson investigation, product liability, workman's compensation losses, water losses, commercial and residential roofing failures, mold investigations, furnace failures, lightning losses, structural failures, piping and mechanical system losses.
- The Hartford Insurance Company – Forensic Engineering on residential and commercial losses, including fire cause and origin, arson investigation, product liability, workman's compensation losses, water losses, commercial and residential roofing failures, mold investigations, furnace failures, lightning losses, structural failures, piping and mechanical system losses.
- Peerless Insurance – Forensic Engineering on residential and commercial property claims, liability, slip trip and fall and commercial roofing failures.
- GAB Robins – Forensic Engineering, Fire Origin and cause investigations, mechanical failures and product liability.
- New London Mutual Insurance Company - Forensic Engineering on residential and commercial losses, including fire cause and origin, arson investigation, premise liability, product liability, workman's compensation losses, thermal imaging, roofing failures, water losses, mold investigations, furnace failures, lightning losses, structural failures, piping and mechanical system losses.
- METLIFE Insurance Company - Forensic Engineering on residential and commercial losses, including fire cause and origin, arson investigation, product liability, roofing failures, water losses, mold investigations, furnace failures, lightning losses, structural failures, piping and mechanical system losses, pollution liability losses.
- CHUBB Insurance – Forensic Engineering on commercial losses including mechanical systems, workman's comp and product liability.
- Kemper Insurance Company - Forensic Engineering on residential and commercial losses, product liability, structural failures, piping and mechanical system losses.
- Progressive Insurance Company - Forensic Engineering on auto and motorcycle losses, including accident reconstruction.
- Nationwide Insurance Company - Forensic Engineering on accident reconstruction, fire cause, product liability.
- Lloyds of London, premise liability, product liability, workman's compensation losses, thermal imaging, roofing failures, water losses, mold investigations, furnace failures, lightning losses, structural failures, piping and mechanical system losses.
- Zurich Insurance – Property peril losses
- Misc. Independent adjusters and attorneys on defense, plaintiff and subrogation cases. Attorneys: Hassett & Donnelly, Marrinelli, Sauer & Hartshorn, Morrison & Mahoney, Mahon, Quinn and Mahon, Luccisano, Turret & Rosenbaum, Richard Gallone, Berchem, Moses and Devlin, Alan Cane, Neil Cohen & Associates, Rus-Daniella Weisman, Petrella & Associates, Peter Finning, Skelley–Rottner; Stanley Cohen; Millano and Wanat; Sachner-O'Conner; Ted Tedford, Trotta, Trotta and Trotta;

Jackson, O'Keefe and Phelan; Robinson and Cole; O'Connell, Attmore & Morris, LLC; Hayes-Windish; Donna Marie-Lonnergan; Falkenstein, Meggers and Paul; Booker Law Offices; In-house counsel at Liberty, Nationwide, Peerless, Great American, and others. Some cases:

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- Bossler v Beach Star Realty LLC, stair trip and fall premise liability, Joe Dunn Attorney, Long Island, NY, Defense, Active
- Anderson v St. Francis Hospital, premise liability, wheel chair, James Marinelli, attorney, Plaintiff, Active
- Glucksman v Autorino Family Limited Partnership, premise liability, wheel chair, James Marinelli, attorney, Plaintiff, Settled
- Busch v Hartford Hospital, Premise Liability, Thomas Anderson Attorney, Defense, Active
- Fogler v SMB Capital, Construction Defects, John Miller Attorney, Defense, Active
- Cusson v Lambert and Barr, Construction Defects, John Miller Attorney, Defense, Active
- Taylor-Czaplewski v Harrison et al, Premise Liability, Robert Cassot Attorney, Defense, Active
- V Kwiatkowski, Premise Liability, Howard, Kohn, Sprague and Fitzgerald, James Moher – attorney), Defense, active
- Beauchemin v AAAA-1 Storage, Premise, Slip and Fall, snow and Ice, Defense, Hassett & Donnelly, active
- Recinos v Benenson, Plaintiff, Premise, trip and fall, Safety and Design Defect, Code Compliance, Alan Cane, settled
- Smith v. Pacific Cycle & Toys R Us, Plaintiff, Product Liability, Bicycle assembly, R. Gallone Attorney, active
- McCaulsky-Walker v Poelstra, Defense, Premise, Slip and Fall, Snow and Ice, E. Storck attorney, Active
- Stewart v Biernard, Premise Liability, Deck Collapse, Plaintiff, C. Mahon attorney, Settled
- DePioti v 1875 Lexington, NYC, Premise liability, Janet Scully attorney, Defense, Active
- Quiroz v 1051 Ocean Co. LLC, NYC, Janet Scully, attorney, Defense Active.
- Nazmi v. Lena First and Last, Premise, Stairs, Defense, Trip and Fall, B. Smith attorney, active
- Plaintiff v. Lord & Taylor, Premise, Defense, Snow and ice, E. Storck Attorney.
- Mandigo et al v Reed Builders, Construction Defects, Defense, Petrella and Associates, Active
- Neidmann v Villa Rosa, Premise, Defense, Slip and Fall, J. Andriola attorney, active
- Stars v Yeshiva, Product liability, Boiler Freeze-Up, Defense
- Lipari v Kinhackl et al., defense, Premise Liability, Sidewalk Defect, Safety, Peter Finning
- Jacobowitz v Scrubbin Bubbles, Defense, Premise Liability, Walkway Grate system, Nationwide
- Rohan v. Reckson, Plaintiff, Premise Liability, Walkway, Snow

and Ice, Active

- Taylor V Harleysville, Property Damage, Plaintiff, Structural, Code, Paul Rainville Attorney, active
- Parady v. 88 Main Street, Defense, Premise Liability, Stairs and Walkway, Trip and Fall, J.Andriola Attorney
- Krause v. Cobbs Mill Inn, Defense, Premise Liability, Slip, Flooring, J.Andriola Attorney
- Francoeur v Glastonbury, CT, Plaintiff, Personal Injury, Construction Defect, Bicycle Injury, Kevin Burns, Attorney
- Weiner v Carlson Construction Company, Premise Liability, Construction Safety, Trip and Fall, Nancy Meehan, Attorney, Active
- Mandigo & Botticello v Reed Builders, Construction Liability, Defects, Julie Petrella Attorney, Active
- Krull v Gossimer, Defense, Construction Liability, Skelly Rottner Kevin Ryan Attorney
- Devra Baum v (Norwalk CT shopping center), Plaintiff, Premise Liability
- Perri v Constantine, Defense, Construction, Kevin Ryan Attorney
- Commonwealth v Benjamin Brown, Defense, Thermal Imaging
- Fulse v Nationwide, Defense, Property Freeze-Up
- Hale v School, Plaintiff, Stanley Cohen, Premise Liability, Trip and Fall, Code issues
- Milano & Wanat
 - Hilltop Nursery, Defense
 - Several Suit Technical Evaluations –Defense
- Roderick v Middlesex Hospital, Defense, Premise Liability, Trip, Code Violations
- Cox v Liberty Mutual, Property, Plaintiff, G. Lucyniak, Attorney
- Middletown Bible Church, Defendant, Premise Liability, Defense, Skelly Rottner
- Shoreline Medical Clinic, Essex, Defendant, Premise Liability
- Old Avon Village, Defendant, Premise Liability, Stairs
- Mancia v Rosenthal, Defense, Ladder, OSHA safety, Peter Finning Attorney (New York)
- Ianni v Nesi, Defense, Accident, Bicycle, Peter Finning, Attorney
- Patterson v Panda Properties, Defense, Construction Accident, Vermont, Bonnie Shappy, Attorney

1991 - 2002

Cissell Design Group, Principal. Projects include total project management and design of municipal, industrial, commercial and residential developments, environmental engineering, remediation, quarry design, storm water management, sports field and irrigation design. Some projects include:

- Hydrofera Corp. – Wastewater Facility Permitting. Waste Stream characterization, technology evaluation, design and permitting of expanded facility.

- Westbrook Post Office – Site design, wetland creation, landscape design, detention facility, parking, sanitary system design, project management.
- Indian River Recreation Complex – Design, construction administration and management of \$2.5 million recreation complex with irrigation systems, buildings, wastewater treatment system, sand based sports field, created wetlands, quarrying and reuse of rock and on-site sand. Approximately 5 other recreational facilities.
- Moroso – Site design and facility planning for proposed expansion of industrial facility.
- Vera Manufacturing – Site Design, including parking, truck loading areas, stormwater management and treatment system, landscape design, utility design, building layout, survey and as-builts.
- Yale Athletic Complex – Design and construction support of stadium and sports field facility, horse corral, parking and landscaping. Includes soil agronomy, drainage, subdrainage, wetland consulting, irrigation system and turf consulting.
- A number of commercial, residential housing and institutional development projects. Site design, civil engineering, lighting, traffic, roads, sidewalks, retaining walls, recreation areas.

1986-1991

Town of Clinton, CT. Town Engineer, Highway Supervisor. Provided Engineering and Management for Town on Municipal infrastructure projects including, highways, new buildings, public water supply, sports fields, highways, drainage, landfill, recycling systems, waste reduction facilities, salt storage, transfer station, fuel storage facilities, underground storage tanks, environmental permitting, and composting systems. Provided engineering review of proposed development projects, coordinated engineering efforts to close landfills, bridges and school facilities. Some specific projects include:

- Engineering, design and construction management of over 2 miles of water main to serve properties with contaminated soils.
- Engineering scope of work, coordination and implementation of engineering studies of contaminated landfill properties.
- Engineering, design and construction of recycling facilities
- Implemented infrastructure management system for improvement of town infrastructure using weighted value versus cost. Improved road system from a 53 to 81 rating in 5 years using computer based system.
- Performed review of auto accidents in Town to evaluate damage and cause to minimize tort liability to town. Evaluated road conditions, ice and snow, sanding, speed conditions and line of sight.
- Implemented FEMA review process to correct flood problems that had been overlooked.
- Implemented a policy for stormwater management within the town to minimize impacts from new developments.
- Implemented a one-form permit and review program for proposed projects to simplify process of serving the development needs of the residents and property owners.
- Managed maintenance and improvement of the town's roads.
- Developed a snow maintenance policy to efficiently facilitate response to

storms and minimize salt use.

- Implemented a town wide GIS mapping project to facilitate planning.
- Designed and implemented improvements to the Transfer Station.
- Engineering charge for the Health and Building Departments
- Engineering charge for Building Department and Code Consultation
- Engineering Charge for new public building projects
- Managed Landfill, Transfer Station, Recycling Facility, and Highway Departments.
- Managed snow and ice removal operations town wide for roads, parks and other publicly owned locations

1985-1986

Angus MacDonald, Gary Sharpe Associates, Old Saybrook, CT, Project Engineer – commercial, residential, institutional and municipal site development projects. Site planning, highway design, sidewalk, grading, lighting, parking lots, common areas, hydrology, septic design.

1980-1985

Stone and Webster Engineering Corporation, Environmental Engineer – Environmental Engineering Division, Water and Waste Group. Performed engineering on large industrial, municipal and hazardous waste projects. Part of Synfuel Task force providing leading edge technology environmental engineering support as lead engineer on several development projects. Company specialist/expert on solids dewatering equipment, evaporators and chemical feed systems. Typical assignments include systems engineering for wastewater treatment, water treatment, solids dewatering, pumping and heat exchanger systems. Assigned to nuclear power facility at Millstone III in Waterford, CT where assignments included start-up support of systems including emergency power, environmental systems, fire suppression systems, HVAC systems, component cooling system, trash racks, heat exchangers systems and computer chiller systems. Provided construction support on systems and installation of piping and electrical systems. Some projects and assignments included:

- Millstone III Nuclear Power Station – Field Power Engineer, Area Engineer providing construction engineering support for the Turbine Building, Intake Building, Emergency Generator Building, Auxiliary Building, and Fuel Building. Some systems with extensive experience:
 - Fire Suppression System
 - Computer chiller system
 - Water treatment system
 - Component Cooling system
 - Main Steam System
 - Emergency Generator System
 - Circulatory Water System
 - Implemented QC unsat system for resolution of piping/electrical proximity problems. System used for other nuclear power plants under construction by SW.
- Florida Power Corporation – Designed integral water and wastewater treatment system to promote water reuse on a synfuel repowering

facility.

- El Paso Electric – Lead Environmental Engineer on a Solar Repowering facility using mirrors on a solar tracking servo's focusing solar energy on a boiler tower. Water treatment systems and wastewater treatment systems were prime work area. Also responsible for biological group and air group contribution.
- Koppelman Process – Lead Environmental Engineer on semi-adiabatic process providing treatment systems for wastewater and waste streams. Process pyrolyzed carbonaceous materials producing high strength waste stream. Implemented wet air oxidation to pretreat waste stream and produce steam to further improve system efficiencies. Waste water treatment included anaerobic treatment system to produce methane used to supplement the heating system.
- George Miller Corporation – Provided environmental audit to address CERCLA liabilities. Studied waste stream reductions, treatments and business opportunities treating hazardous wastes.
- Boston Electric Company – Provided water treatment engineering for a steam heating plant.
- Boston Electric Company – Provided environmental engineering to support coal barge docking facilities.
- Eastern Fine Paper Company – Reviewed plant processes producing wastewater and pretreatment processes as well as the local wastewater treatment facility to address treatment plant failures and plant environmental costs. Engineered several changes to the process stream, including recycling water streams and implemented a surge storage system to allow metering of wastewater flows to the municipal plant to even out the organic loading.
- Montauk Electric Company – Principal Environmental Engineer providing engineering for the wastewater treatment system for coal pile runoff and process wastewater. Also, provided systems for solids dewatering and handling and air quality monitoring systems.
- Pulp and Paper Company, Maine – Flyash landfill consulting, characterized leachate and modeled transport.
- Lowell Canal – Low Head Repowering Project – Provide Phase I and II site assessment in 1980, prior to establishment of recognized requirements.

Patents and publications

Www.claims-center.com ; co-developed a claim management system to facilitate the communication and documentation between experts and insurance adjusters.

Training Seminar, Instructor – Multiple dates, Professional Investigators Engineers Association, Fire Origin and Cause, Mold Claim Investigations, Property and Liability Claims. Three day seminar taught primarily to seasoned professional engineers on techniques and investigation protocol to solve claim related engineering problems.

Mold Causation and Remediation, Claims Notes, May 2004, Technical Bulletin describing moisture problems and determination in buildings.

Human Factors – I, Claims Notes, March 2002. Technical Bulletin describing human factors involved with auto accidents.

Human Factors – II, Claims Notes, February 2002. Technical Bulletin describing

human factors involved with property injuries and claims.

Mold & Moisture – Claims Notes, December 2001. Technical Bulletin describing case studies in mold related claims in residential setting.

Lightning – Claims Notes, January 2002. Technical Bulletin describing the effects of lightning strikes around buildings.

Pollution Potential from the Gasification of Carbonaceous Shales, 1979, American Water Works Conference Las Vegas, Nevada,

Water Reuse in coal gasification, Journal of the American Water Works Association, 1980.

Leachate Potential from Coal Fired Power Plant Flyash, contributing author, Pulp and Paper Journal, 1982.

Water Reuse in a Combined Cycle Coal Gasification Plant, published in American Power, 1984.

Sports Turf Management Seminar, surface and subsurface water flow.