

Edward J. Prendergast, P.E.

Professional Competencies:

Forensic Engineer who investigates:

- Analysis of fire code violations
- Fire protection/suppression systems
- Hazardous material handling codes
- Permit and building code violations

Experience Summary

- Fire Prevention Engineer
- Program manager for fire-safe building design courses
- Fire Protection and Safety Engineer

Employment History:

Wolf Technical Services, Inc., Indianapolis, IN
Forensic Fire Investigator (June 1998 to Present)

The technical investigation of fires, explosions, and fire protection systems for insurance subrogation and civil litigation purposes. Investigation activities include scene examination with respect to cause, origin, and circumstances of fires and explosions.

Chicago Fire Department, Bureau of Fire Prevention
Fire Prevention Engineer (October 1967 – June 1998)

Responsibilities: Direct engineering section of Fire Prevention Bureau. Assist engineers and architects with technical problems relating to fire prevention and code compliance in building design. Instruct firefighters in fire prevention. Review hydraulic calculations of automatic sprinkler and standpipe systems. Testify in fire code cases. Member of Building Board of Appeals and the Deputy Coordinator of Emergency Preparedness for the City of Chicago.





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National Fire Academy, Washington, D.C.

Intergovernmental Personnel Assignment (April 1977 – April 1978)

Responsibilities: Program manager for the development of a course package in fire-safe building design for practicing architects and educators. Worked with American Institute of Architects and Center for Fire Research, National Bureau of Standards.

Fireman's Fund Insurance Company

Fire Protection and Safety Engineer (December 1963 – October 1967)

Responsibilities: Inspected industrial property for insurance underwriting, fire protection, and loss control purposes.

Education:

Illinois Institute of Technology

Bachelor of Science, Industrial Engineering

Bachelor of Science, Mechanical Engineering

Professional Memberships:

Professional Engineer, State of Illinois

Society of Fire Protection Engineers

- Chairman of Fire Services Liaison Committee, Chicago Chapter
- Member
- National Fire Service Committee
- Member Editorial Review Board

National Fire Protection Association member

- Committee on Standpipes, Regional Fire Code Development Committee
- Member Committee on Standpipes (1985-1998)
- Regional Fire Code Development Committee (1992-1998)
- Building Fire Safety Systems Section

Teaching Experience:

National Fire Academy

Instructor in fire safe building design, fire prevention, building construction and fire protection systems; (1979 to present).



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City Colleges of Chicago

Instructor in fire science program teaching courses in fire prevention and chemistry of hazardous materials; (1975 to present).

College of Lake County

Instructor in fire science program teaching courses in fire protection systems and hydraulics; (1970 to 1974).

Publications:

Co-author, **"Building Construction Related to the Fire Service" 3rd ed.**
International Fire Service Training Association

"Supplying Water for High Rise Construction Projects"
Fire Protection Engineering, Society of Fire
Protection Engineers, December 2008

"Human Behavior in Codes"
Fire Protection Engineering, Society of Fire
Protection Engineers, October 2005

Author, **"Plans Examiner for Fire and Emergency Services"**
International Fire Service Training Association

Author, **"Building Construction Related to the Fire Service"**
International Fire Service Training Association

"Fire Breaks Down Concrete"
Fire Engineering, September, 1989

"Ethics in Fire Code Enforcement"
International City Management Association, August 1982.

Presentations:

"Performance Based Design for the Authority Having Jurisdiction"
Society of Fire Protection Engineers, Chicago, Illinois, October 2000



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"Fire Prevention Supervision"

National Fire Academy, November 2000

"An Engineer's Perspective"

Toronto Fire Service High Rise Seminar, Toronto, Canada, May 2001

"The Supervision and Training of Fire Inspectors"

National Fire Protection Association Conference

Minneapolis, Minnesota, May 2002

"Building Construction for the Fire Investigator"

Ohio Arson School

Columbus, Ohio, July 2006

"An Analysis of the E2 Night Club Disaster"

National Fire Protection Association Conference

June 2008

"The Investigation of Fires in Sprinklered Buildings"

Illinois Association of Arson Investigators

September 2008