

Dr. Domel specializes in the investigation, evaluation, and repair of damaged and distressed structures. He is also well versed in the evaluation of construction issues, including safety and construction operations. His more than thirty years of engineering experience include involvement in buildings, bridges, tanks, residential structures, and specialty structures.

Dr. Domel has lectured throughout the United States on the structural evaluation of buildings after a catastrophic event. He was an advisory member of the State of Illinois Terrorism Task Force and a Structures Specialist with the Urban Search and Rescue Team (TF IL-1) and the first Chairman of the National Council of Structural Engineering Association's Structural Emergency Response.

Licenses & Certifications

State of Illinois Attorney at Law License No. 06210377

State of Illinois S.E. License No. 081-004717

State of Colorado P.E. License No. 0056240

State of Florida P.E. License No. 81911

State of Idaho P.E. License No. 19163

State of Illinois P.E. License No. 062-043734

State of Indiana P.E. License No. 19600504

State of Iowa P.E. License No. 13736

State of Kansas P.E. License No. 17301

State of Kentucky P.E. License No. 29634

State of Louisiana P.E. License No. E-28054

State of Maryland P.E. License No. 53421

State of Michigan P.E. License No. 42421

State of Minnesota P.E. License No. 24926

State of Mississippi P.E. License No. 17022

State of Missouri P.E. License No. EN028393

State of Nebraska P.E. License No. E-12219

State of New York P.E. License No. 075548-1

State of Ohio P.E. License No. E-64331

State of Rhode Island P.E. License No. 12817

State of South Dakota P.E. License No. 13274

State of Tennessee P.E. License No. 00116841

State of Texas P.E. License No. 84467

State of W. Virginia P.E. License No. 20532

August W. Domel

Principal, Civil & Structural

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Education

J.D. Attorney at Law

Loyola University, 1992

PhD, Civil Engineering (Structural)

University of Illinois at Chicago.

1998

MS, Civil Engineering (Structural).

Illinois Institute of Technology. 1985

BS, Civil Engineering

Bradley University. 1982

Areas of Specialization

Engineering Analysis

Structural Design

Structural Failure Analysis

Construction Failure Analysis

Construction Safety

Damage Assessment

Building Envelope Assessment

Damage Repair Engineering



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State of Wisconsin P.E. License No. 31699-006
District of Columbia, Washington, DC P.E. License No. 922250

Positions Held

Engineering Systems Inc., Aurora, Illinois

- Principal, 2000 – Present
- Manager of Structural Engineering, 1996 – 1999
- Project Manager, 1995-1996

Judson University, Elgin, Illinois

- Adjunct Associate Professor, Architecture Department, 2000 - Present

Illinois Institute of Technology, Chicago, Illinois

- Adjunct Professor, Department of Civil and Architectural Engineering, 1992 – Present

Gouwens Engineering Consultants, Elmhurst, Illinois

- Senior Project Manager, 1994 – 1995

Portland Cement Association, Skokie, Illinois

- Senior Structural Engineer, 1989 – 1994

Packer Engineering, Naperville, Illinois

- Staff Consultant, 1988 - 1989

City of Chicago, Chicago, Illinois

- Department of Public Works/Bridge Division Civil Engineer IV, 1982 – 1988

Training and Certifications

- Safety Training - Department of Labor (OSHA) Construction Trainer
- OSHA 10-Hour Training
- Fall Protection
- Excavation Safety
- Confined Space Hazard
- Scaffolding

- Concrete Hazard Awareness
- Steel Erection Hazard Awareness
- Fixed and swing stage scaffolding
- Building Code Certification - BOCA One & Two Family Building Inspector
- Emergency Response
- Post Flood & Wind Safety Evaluation of Buildings (ATC-45)
- Post Earthquake Safety Evaluation of Building (ATC-20)
- Post Earthquake Evaluation of Buildings (State of California)
- Structures Specialists – Urban Search & Rescue

Professional Affiliations

- Structural Engineers Association of Illinois
- National Council of Structural Engineers Association

Publications

Structural Engineering Emergency Response Plan

National Council of Structural Engineers Association, Chicago, IL, April 2003

World Trade Center Disaster: Structural Engineers at Ground Zero

National Council of Structural Engineers Association, Chicago, IL, November 2001

Contractors Engineering Handbook

A.W. Domel, McGraw-Hill, New York, NY, March 2000

Construction Shortcuts: An Invitation to Disaster

A.W. Domel, University of Hawaii, Honolulu, HI, March 1999

Basic Engineering Calculation for Contractors

A.W. Domel, McGraw-Hill, New York, NY, March 1997

Rectangular Tanks

A.W. Domel, Portland Cement Association, Skokie, IL, 1994

Residential Contracting: Hands-On Project Management for the Builder

A.W. Domel, McGraw-Hill, New York, NY, 1994

When Technology Fails

Contributing Author, Gale Research, Detroit, MI, 1994

Circular Concrete Tanks



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A.W. Domel, Portland Cement Association, Skokie, IL, 1993

Design of Concrete Buildings for Earthquake and Wind Forces

A.W. Domel, Portland Cement Association, Skokie, IL, 1992

Economical Floor Systems for Multi-Story Residential Buildings

A.W. Domel, American Concrete Institute, Detroit, MI, 1990

Concrete Floor Systems: Estimating and Economizing

A.W. Domel, Portland Cement Association, Skokie, IL, 1990

Seismic Response of Steel-Concrete Composite Multi-Story Buildings

Ph.D. Thesis, University of Illinois at Chicago, Chicago, IL, 1998

Structural Survey of Multi-Story Buildings

Civil Engineering Department, University of Illinois at Chicago, Chicago, IL, 1998

Teaching and Technical Presentations

Evaluation of Structures after a Disaster

State Structural Engineering Organizations, 2003-2004

Structural Disaster Issues

Chicago Committee on High Rise Buildings, Chicago, IL, January 2022

Preliminary Impressions from the World Trade Center Disaster

Structural Engineers Foundation, Chicago, IL, December 2001

World Trade Center Disaster: Examining Structural and Geotechnical Damages and Perturbation to Our Local Community

National Science Foundation Earthquake Engineering Research Center, Urbana, IL, November 2001

Structural Design III

A.W. Domel, ARC 342, Architecture Department, Judson College, 2000-2003

102-Hour Construction Certification

A.W. Domel, Concrete & Masonry, Northern Illinois University, November 2000, December 2001, January 2002

30-Hour Construction Safety Certification (Concrete, Masonry & Demolition)

A.W. Domel, Chicagoland Construction Safety Council, March 2000

Designer's Role in Safety

Moderator, Construction Safety Council, Chicago, IL, February 2000



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Implementation of Safety and Health on Construction Sites

A.W. Domel, University of Hawaii, Honolulu, HI, 1999

Experts and Ethics: Is There an Enigma?

A.W. Domel, American Bar Association, Dallas, TX, July 1998

Structural Collapses

A.W. Domel, Seminar for Korean Teaching Institute, July 1998

Structural Building Failures

A.W. Domel, ASM International Materials Convention, Rosemont, IL October 1994

Construction Site Operations

A.W. Domel, CE 472, Department of Civil and Architectural Engineering, Illinois Institute of Technology, Fall Semester 1995 - 2004

Construction Administration

A.W. Domel, CE 473, Department of Civil and Architectural Engineering, Illinois Institute of Technology, Winter Semester 1994 - 1999

Legal Issues in Civil Engineering

A.W. Domel, CE 571, Department of Civil and Architectural Engineering, Illinois Institute of Technology, 1993 - 2004

Structural Framing Systems

Student Division of American Society of Civil Engineers, University of Illinois at Chicago, August 1993