

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, 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.

Education

JD, 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

Licenses & Certifications

- State of Illinois Attorney at Law License 06210377
- State of Illinois S.E. License 081-004717
- State of Colorado P.E. License 0056240
- State of Florida P.E. License 81911
- State of Idaho P.E. License 19163
- State of Illinois P.E. License 062-043734
- State of Indiana P.E. License 19600504
- State of Iowa P.E. License 13736
- State of Kansas P.E. License 17301
- State of Kentucky P.E. License 29634

Contact Information

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Areas of Specialization

- Engineering Analysis
- Structural Design
- Structural Failure Analysis
- Construction Failure Analysis
- Construction Safety
- Damage Assessment
- Building Envelope Assessment
- Damage Repair Engineering

- State of Louisiana P.E. License E-28054
- State of Maryland P.E. License 53421
- State of Michigan P.E. License 42421
- State of Minnesota P.E. License 24926
- State of Mississippi P.E. License 17022
- State of Missouri P.E. License EN028393
- State of Nebraska P.E. License E-12219
- State of New York P.E. License 075548-1
- State of Ohio P.E. License E-64331
- State of Rhode Island P.E. License 12817
- State of South Dakota P.E. License 13274
- State of Tennessee P.E. License 00116841
- State of Texas P.E. License 84467
- State of West Virginia P.E. License 20532
- State of Washington P.E. License 36744
- State of Wisconsin P.E. License 31699-006
- District of Columbia, Washington, DC P.E. License 922250
- 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
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Positions Held

Engineering Systems Inc., Aurora, Illinois

- Principal, 2000 – Present
- Manager, 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
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Professional Affiliations/Honors

Structural Engineers Association of Illinois

- Member, 1985 – Present

National Council of Structural Engineers Association

- Member, 1995 – Present
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Publications

“Structural Engineering Emergency Response Plan,” **A.W. Domel**, National Council of Structural Engineers Association, April 2003.

- "World Trade Center Disaster: Structural Engineers at Ground Zero," **A.W. Domel**, National Council of Structural Engineers Association, November 2001.
- "Contractors Engineering Handbook," **A.W. Domel**, McGraw-Hill, March 2000.
- "Construction Shortcuts: An Invitation to Disaster," **A.W. Domel**, University of Hawaii, March 1999.
- "Basic Engineering Calculation for Contractors," **A.W. Domel**, McGraw-Hill, March 1997.
- "Rectangular Tanks," **A.W. Domel**, Portland Cement Association, 1994.
- "Residential Contracting: Hands-On Project Management for the Builder," **A.W. Domel**, McGraw-Hill, 1994.
- "When Technology Fails," **A.W. Domel**, et al., Gale Research, 1994.
- "Circular Concrete Tanks," **A.W. Domel**, Portland Cement Association, 1993.
- "Design of Concrete Buildings for Earthquake and Wind Forces," **A.W. Domel**, Portland Cement Association, 1992.
- "Economical Floor Systems for Multi-Story Residential Buildings," **A.W. Domel**, American Concrete Institute, 1990.
- "Concrete Floor Systems: Estimating and Economizing," **A.W. Domel**, Portland Cement Association, 1990.
- "Seismic Response of Steel-Concrete Composite Multi-Story Buildings," **A.W. Domel**, Ph.D. Thesis, University of Illinois at Chicago, 1998.
- "Structural Survey of Multi-Story Buildings," **A.W. Domel**, Civil Engineering Department, University of Illinois at Chicago, 1998.

Presentations

- "Structural Disaster Issues," **A.W. Domel**, Chicago Committee on High Rise Buildings, Chicago, IL, January 2022.
- "Evaluation of Structures after a Disaster," **A.W. Domel**, State Structural Engineering Organizations, 2003–2004.
- "Preliminary Impressions from the World Trade Center Disaster," **A.W. Domel**, Structural Engineers Foundation, Chicago, IL, December 2001.
- "World Trade Center Disaster: Examining Structural and Geotechnical Damages and Perturbation to Our Local Community," **A.W. Domel**, National Science Foundation Earthquake Engineering Research Center, Urbana, IL, November 2001.
- "Structural Design III," **A.W. Domel**, ARC 342, Architecture Department, Judson College, Elgin, IL, 2000–2003.
- "102-Hour Construction Certification," **A.W. Domel**, Concrete & Masonry, Northern Illinois University, DeKalb, IL, 2000–2002.

- "30-Hour Construction Safety Certification (Concrete, Masonry & Demolition)," **A.W. Domel**, Chicagoland Construction Safety Council, Hillside, IL, March 2000.
- "Designer's Role in Safety," **A.W. Domel**, Construction Safety Council, Chicago, IL, February 2000.
- "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, Chicago, IL, July 1998.
- "Structural Building Failures," **A.W. Domel**, ASM International Materials Convention, Rosemont, IL, October 1994.
- "Construction Site Operations," **A.W. Domel**, Department of Civil and Architectural Engineering, Illinois Institute of Technology, Chicago, IL, 1995–2004.
- "Construction Administration," **A.W. Domel**, Department of Civil and Architectural Engineering, Illinois Institute of Technology, Chicago, IL, 1994–1999.
- "Legal Issues in Civil Engineering," **A.W. Domel**, Department of Civil and Architectural Engineering, Illinois Institute of Technology, Chicago, IL, 1993–2004.
- "Structural Framing Systems," **A.W. Domel**, Student Division of American Society of Civil Engineers, University of Illinois at Chicago, Chicago, IL, August 1993.