



**AUGUST W. DOMEL, Ph.D., S.E., P.E.**

**PRINCIPAL**

[awdomel@engsys.com](mailto:awdomel@engsys.com)

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.

**Areas of Specialization**

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

**Education**

J.D. Attorney at Law, Loyola University, 1992  
Ph.D. Civil Engineering (Structural), University of Illinois at Chicago, 1988  
M.S. Civil Engineering (Structural), Illinois Institute of Technology, 1985  
B.S. Civil Engineering, Bradley University, 1982

**Licensed Structural Engineer (S.E.)**

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

**Attorney-at-Law**

State of Illinois.....License No. 06210377

*May 2020*



## License Professional Engineer (P.E.)

State of Colorado	License No. 0056240
State of Florida	License No. 81911
State of Idaho	License No. 19163
State of Illinois	License No. 062-043734
State of Indiana	License No. 19600504
State of Iowa	License No. 13736
State of Kansas	License No. 17301
State of Kentucky	License No. 29634
State of Louisiana	License No. E-28054
State of Maryland	License No. 53421
State of Michigan	License No. 42421
State of Minnesota	License No. 24926
State of Mississippi	License No. 17022
State of Missouri	License No. EN028393
State of Nebraska	License No. E-12219
State of New York	License No. 075548-1
State of Ohio	License No. E-64331
State of Rhode Island	License No. 12817
State of South Dakota	License No. 13274
State of Tennessee	License No. 00116841
State of Texas	License No. 84467
State of W. Virginia	License No. 20532
State of Washington	License No. 36744
State of Wisconsin	License No. 31699-006
District of Columbia, Washington DC	License No. 922250

Dr. Domel is presently an Adjunct Professor at the Illinois Institute of Technology where he teaches engineering classes in the Civil and Architectural Engineering Department. He also is an Adjunct Associates Professor at Judson University where he teaches structural design courses in the Department of Architecture. He is the author of books and articles on the design, analysis and construction of a variety of structures and construction related issues. Dr. Domel was formally an authorized construction trainer for OSHA Certification.

## Training and Certification

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

### **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, IL**

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

### **Publications/Presentations**

"Structural Engineering Emergency Response Plan"

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

"World Trade Center Disaster: Structural Engineers at Ground Zero"

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

"Contractors Engineering Handbook"

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

"Construction Shortcuts: An Invitation to Disaster"

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

"Basic Engineering Calculations for Contractors"

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

"Rectangular Tanks"

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

"Residential Contracting; Hands-On Project Management for the Builder"

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

"When Technology Fails"

Contributing Author, Gale Research, Detroit, Michigan, 1994

"Circular Concrete Tanks"

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

"Design of Concrete Buildings for Earthquake and Wind Forces"

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

"Economical Floor Systems for Multi-Story Residential Buildings"

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

"Concrete Floor Systems: Estimating and Economizing"

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

"Seismic Response of Steel-Concrete Composite Multi-Story Buildings"

Ph.D. Thesis, University of Illinois at Chicago, 1988

"Structural Survey of Multi-Story Buildings"

Civil Engineering Department, University of Illinois at Chicago, 1988

## 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 2002

"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

"Topics in Architecture"

A.W. Domel, ARC 400, Architectural Department, Judson College, 2001

"Structural Design III"

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

"120-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

"Designers Role in Safety"

A.W. Domel, Moderator, Construction Safety Council, Chicago, Illinois,  
February 2000

"Implementation of Safety and Health on Construction Sites"

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

"Experts and Ethics"; Is There An Enigma?"

A.W. Domel, American Bar Association, (Dallas, Texas), October 1998

"Structural Collapses"

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

"Structural Building Failures"

A.W. Domel, ASM International Materials convention, Rosemont (Chicago), October 1994

"Construction Site Operations"

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

"Construction Administration"

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

"Legal Issues in Civil Engineering"

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

"Structural Framing Systems"

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