

Saeed Daniali

Current Position

Professor
Department of Construction Management
College of Architecture and Urban Planning
University of Washington

Current Address

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Education

- 1975 Ph.D. Structural Mechanics, University of Sciences & Technologies of Lille, Lille, France
- 1972 M.S., Civil Engineering, School of Engineering of Strasbourg, France
- 1970 B.S., Civil Engineering, Tehran Polytechnique, Tehran, Iran

Professional Registration

Registered Professional Engineer in Washington, and Texas

Administrative Experiences

- 1997 - 2002 Chair, Department of Construction Management, University of Washington, Seattle, Washington
- 1984-1997 Director, Luther A. Beale Structure Laboratory, Lamar University, Beaumont, Texas
- 1978 - 1981 Dean, College of Engineering, Jondi Shahpour University, Ahwaz, Iran
- 1977-1981 Director, Capital Project Department, Jondi Shahpour University, Ahwaz, Iran
- 1976 - 1978 Chair, Department of Civil Engineering, Jondi Shahpour University, Ahwaz, Iran

Teaching Experience

2002-2004	P.D. Koon Endowed Professor for Sustainable Built Environment
1997- Present	Professor, Department of Construction Management, College of Built Environment, University of Washington
1997 – 2002	Professor and Chair, Department Of Construction Management, College of Built Environment, University of Washington
1994 - 1997	Professor, Civil Engineering Department, Lamar University, Beaumont, Texas
1986 - 1994	Associate Professor, Civil Engineering Department, Lamar University, Beaumont, Texas
1981 - 1986	Assistant Professor, Civil Engineering Department, Lamar University, Beaumont, Texas
1978 – 1981	Associate Professor, Civil Engineering Department, Jondi Shahpour University, Ahwaz, Iran
1975 - 1978	Assistant Professor, Civil Engineering Department, Jondi Shahpour University, Ahwaz, Iran
1972 - 1975	Graduate Research and Teaching Assistant, University of Lille, Lille, France

Professional Engineering Experience

2000 - present	President, Forensic Engineering Experts, L.L.C.
1981 - present	Independent Consulting Engineer
1981 - 1984	Structural Mechanics Engineer, Ward Associates, Consulting Engineers, Stillwater, Oklahoma
1975 – 1981	President, SAM Engineering and Construction Inc., Ahwaz, Iran
1973 - 1975	Chief Engineer, Coignie Construction Company, Lille, France
1972 - 1973	Structural Engineer, Nord Etude Consulting Engineers, Lille, France
1969 – 1971	Engineering Draftsman, Avaj Consulting Engineers, Tehran, Iran

Design and Construction Projects

a. Selected Projects (Design, Construction Management & Owner Representative)

Project Manager, Snoqualmie Ice Cream Plant, Maltby, Snohomish County, Washington, 2006;

Owner Representative, Port of Port Arthur Expansion Project, Port Arthur, Texas; 1998-2002;

Designer and Project Manager for the damaged Wharf #3, Port of Port Arthur, Port Arthur, Texas, 2002;

Designer and Project Manager, Repair of Damaged Wharf #1, Port of Port Arthur, Port Arthur, Texas. 2001;

Designer, 10,000-Ton Dry Duck, Port Arthur, Texas, 1999;

Structural Design, Kampus Korner Book Store, Beaumont, Texas, 1998;

Designer and Project Manager for two 1,500,000 gallons water tanks, Beaumont, Texas, 1996;

Designer and Construction Manager for a 3000 units development project, Tampa, Florida,

Designer for Sunbelt Truss Manufacturing Company, Lumberton, Texas, 1993;

Designer and Project Manger, Trinity Bay Water Conservation, Winnie, Texas, 1985; and

Design of a five-story pipe rack structure for Star Refinery, Port Arthur, Texas, 1985.

b. Selected Projects (Forensic Engineering Investigations)

Collapse of Preston Bridge, Seattle, Washington, 1999;

West Seattle, Residential Building water damage, Seattle, Washington, 1999;

Investigation of water damages to an apartment complex, Seattle, Washington, 1997;

Collapse of two Petroleum Tanks, Texas City, Texas, 1989;

Structural evaluation of a concrete water tank, Nederland, Texas; 1989; and

Structural analysis of two petroleum tanks at Chevron Refinery, Port Arthur Texas, 1989.

Recent Structural Design and Construction Management Projects

- Forensic Investigation, Structural Design and project Management, Alligator Bayou Existing Pump Station, Drainage District 7, Port Arthur Texas, 2013;
- Forensic Investigation, Structural Design and project Management, Lakeside Pump Station Damaged by Fire, Drainage District 7, Port Arthur, Texas, 2011;
- Structural Design and Project Management, Alligator Bayou New Pump Station, Drainage District 7 (DD7), Port Arthur Texas, 2009; and
- Structural Design and Construction Management, Orange County New Waste Water Facilities, Orange County, Texas, 2008.

Honors

P.D. Koon Endowed Professor for Sustainable Built Environment, University of Washington, 2002

“Amoco Best Teacher Award,” Lamar University, 1991.

“Man of the Year Award,” Port Commission Advisory Committee, Port of Port Arthur, Port Arthur, Texas, 1990.

“Tres Honorable” (graduate with Highest Honor at doctoral level), University of Sciences and Technologies of Lille, Lille, France, 1975.

Ranked second among civil engineering students, Class of 1972, School of Engineering of Strasbourg, Strasbourg, France, 1972.

Ranked first among civil engineering students, Class of 1970, Tehran Polytechnique, Tehran, Iran, 1970.

Professional Societies Memberships

Member, American Concrete Institute (ACI)

Member, American Society of Civil Engineers (ASCE)

Member, American Society for Engineering Education (ASEE)

Member, Transportation Research Board (TRB)

Member, ASCE Structural Plastics Research Council (SPRC)

Member, The Masonry Society (TMS)

Member, ACI Committee 408, Bond and Development of Reinforcement

Member, ASTM International Committee on Plastic Composites

Member, ASTM D20 Committee on Plastic Composites

Member, ASTM D30 Committee, Applications of Plastic Composite in Infrastructure

Member, Deep Foundation Institute (DFI)

Reviewer for Technical Journals and Research Institutes

Reviewer of TRB research proposals and technical papers;

Reviewer of the Environmental Protection Agency (EPA) research proposals and technical papers; and

Reviewer of the National Science Foundation (NSF) research proposals.

Scholarship

Four years undergraduate scholarship, Tehran Polytechnique, Iran;

Summer Training Scholarship from French Government, 1970; and

French Government Higher Education Scholarship, Full scholarship, 1971-1975.

Publications

Author of 12 proprietary research reports for different petrochemical and composite industries.

Daniali, S. (2002). "A Study of the Construction Labor Market in Pierce County and the Neighboring Counties" Report submitted to the Workforce Development Council, Pierce County, Washington State;

Daniali, S. (2001) "Alternative method of contracting for public work in the U.S.A." Proc., the 2nd Civil Engineering Conference in the Asian Region, Tokyo, 71-76;

Daniali, S. (2001) "Value engineering for a port expansion project." Proc., the 2nd Civil Engineering Conference in the Asian Region, Tokyo, 33-39;

- Daniali, S. (2000). "Use of non-recycled latex paints in construction," Report submitted to King County Waste Management Department, Seattle, Washington, 1999;
- Fotinos, S., Hsu, Y., Daniali, S., & Cruz, D., (1998). 'Design of New Wharf Expansion for the Port of Port Arthur, Texas," Proc., ASCE Ports' 98 Conference, 476-485;
- Daniali, S., (1994) "Concrete columns reinforced with fiber reinforced plastic rebars," Proc., ASCE Materials Engineering Conference, 567-574;
- Daniali, S., (1994) "Design and analysis of concrete columns reinforced with fiber reinforced plastic rebars" Proc., International Conference on Composite Engineering, 1059-1060;
- Daniali, S., (1992) "Development length for reinforced plastic bars." Proc., CSCE First International Conference on Advanced Composite Materials in Bridge and Structures, Sherbrook, Canada;
- Daniali, S., (1992) "Investigation of the behavior of reinforced plastic columns with concrete core." Proc., ASCE 1992 Material Congress, 666-676;
- Daniali, S., (1991) "Short-term and long-term behavior of two types of reinforced plastic beams." Proc., SPI Composite Institute, 46th Annual Conference, 13A, 1-5;
- Daniali, S., Joshi, N. (1990) "Ultrasonic pulse velocity and ultrasonic pulse echo attenuation study for evaluation of hazardous waste solidification and stabilization." Report, Gulf Coast Hazardous Substances Research Center;
- Daniali, S., Gold, L., (1990) "Investigation of high confidence design and testing criteria for composite construction". Proc. The Decision Sciences Institute, 552-555;
- Daniali, S., (1990) "Solidification / Stabilization of heavy metals in latex modified portland cement matrices." Journal of Hazardous Materials, 225-230;
- Daniali, S., (1990) "Bond strength of fiber reinforced plastic bars in concrete." Proc., ASCE Materials Engineering Congress, 1182-1191;
- Daniali, S., (1990) "Time-depending behavior of FRP lintels." Proc., ASCE Materials Engineering Congress, 506-515;
- Daniali, S., (1990) "Solidification / Stabilization of hazardous waste substances in latex modified portland cement materials." Proc., the Gulf Coast Hazardous Substances Research Center Annual Symposium, 77-80;
- Daniali, S., (1990) "Investigation of the behavior of two types of fiberglass reinforced plastic beams." Report, Ceramic Cooling Tower Company, Fort Worth, Texas; and

Daniali, S., (1989) "Effect of temperature on load-carrying capacity of fiberglass reinforced beams." Proc., ASCE Structural Congress, 504-513.

Grants

"Center for Construction Education & Research", Advanced Technology Initiatives (ATI), University of Washington, \$450,000 (1998);

"A Study of the Construction Labor Market in Pierce County and the Neighboring Counties" Report submitted to the Workforce Development Council, Pierce County, Washington State, \$123,500, 2002;

"A Center for Advancement of Sustainable Construction Technology", State of Washington, \$125,000, 2001;

"Use of non-recycled latex paints in construction," King County Waste Management Department, \$12,500, 2000;

"Applications of Fiber Reinforced Plastic Composite Materials in Highway Structures." Funded by Texas Department of Transportation, \$187,500, 1997;

"Experimental investigation of the creep behavior of fiber reinforced plastic columns." Funded by NSF, \$50,000, 1996;

"Investigation of fatigue performance of structural steel plate specimens prepared using different cutting processes." Funded by Addison Welding Institute, Columbus, Ohio, \$87,500, 1994;

"Investigation of the behavior of structural members made of FRP materials exposed to freeze-thaw cycles." Funded by Lamar University Research Council, International Grating, Inc., \$72,000;

"Investigation of the behavior of structural members made of FRP materials exposed to elevated temperatures." Funded by Lamar University Research Council, Morrison Molded Fiber Glass Company, and International Grating, Inc., \$40,500, 1993;

"Leaching mechanisms and performance of solidified/stabilized hazardous waste substances in modified cementitious and polymeric matrices," Funded by EPA, \$96,500, 1989-91;

"Investigation of creep deformation of fiber reinforced composite beams and connections." Funded by Morrison Molded FiberGlass Company, Bristol, VA, and the Lamar University Research Council, \$61,000, 1990;

"Ultrasonic pulse velocity and ultrasonic pulse echo attenuation study for evaluation of hazardous waste solidification and stabilization." Funded by EPA, \$125,000, 1989;

"Strengthening of old concrete bridges by using fiber reinforced plastic plates," Funded by the Lamar University Research Council, \$5000, 1989;

"Bond strength of fiber reinforced plastic reinforcing bars in concrete." Funded by Vega Technologies, Inc., Marshall, Arkansas, and the Lamar University Research Council, \$43,500, 1988;

"Investigation of bond strength of epoxy-coated rebars in concrete." Funded by ABC Coating Company, Waxahachie, Texas and the Lamar University Research Council, \$72,000, 1987;

"Investigation of flexural creep deformation of plastic composite beams". Funded by Composite Technology, Inc., Fort Worth, Texas, \$44,975, 1986; and

"Rehabilitation of old composite steel-beam bridges by post-tensioning method", Funded by Dollinger Steel Company and the Lamar University Research Council, \$55,530, 1986.