

**RONALD J. LEJMAN, M.Sc., GE**  
Associate Geotechnical Engineer



**PROFESSION**

Geotechnical Engineer

**REGISTRATIONS**

Registered Civil Engineer --  
State of California

Registered Geotechnical Engineer --  
State of California

Registered Civil Engineer --  
State of Nevada

**EDUCATION**

B.S.C.E., University of Illinois  
M.S.C.E. (Soil Mechanics and  
Foundations), California State  
University at Long Beach

**PROFESSIONAL EXPERIENCE**

GMU Geotechnical, Inc.

(2005 to Present)

Associate Geotechnical Engineer,  
Rancho Santa Margarita, California

Lejman Geotechnical Group

Incorporated

(1996-2005)

Principal, Laguna Hills, California

Lejman & Lee, Incorporated

(1985-1996)

Principal, Laguna Hills, California

**PUBLICATIONS**

Noorany, I., Colbaugh, D., Lejman,  
R., and Miller, M., "Levelness of  
Newly Constructed Post-tensioned  
Slabs for Residential Structures",  
Journal of Performance of  
Constructed Facilities. Vol.19. No.1,  
February 1, 2005.

**ORGANIZATIONS**

Member, American Society of Civil Engineers  
Member, Orange County EMA Technical Advisory  
Board (1982-2000)  
Member, ISSMFE  
Member, Post Tension Institute  
Member, SEAOC  
Member, Deep Foundations Institute

## PROFESSIONAL EXPERIENCE

- GMU Geotechnical, Inc., Associate Engineer (May 2005 to Present)

Perform geotechnical analysis and report preparation on highway bridges, mid- and high-rise buildings, landslide stabilization and repair, City reviews of geotechnical reports and developments for industrial building sites. Designed CMU retaining walls and underpinning and tiebacks associated with retaining construction.

- Lejman Geotechnical Group Incorporated, Principal (November 1996 to May 2005)

Expert witness in construction defect cases involving slope creep, hydrocompression, lateral extension, crib walls, retaining walls, expansive soils, slope failures and landslides. Attended and participated in mediation conferences, settlement conferences and depositions. Prepared trial exhibits and testified at trial. Performed geotechnical review of temporary tieback design to stabilize failed hillside in Los Angeles. Performed analysis and reports on frost heave problem in cold storage warehouse in Orange, CA; bedrock heave in large commercial building in San Diego, CA; creep of large crib wall in Laguna Niguel, CA.

Expert witness for defense on large landslide in Laguna Niguel. Expert witness for defense on repair of landslide in Santa Monica Mountains in the City of Los Angeles. Independent expert appointed by judge in case involving suspected landslide in Santa Monica Slate. Expert witness for developer in case in Laguna Niguel concerning stability of Earthstone retaining walls. Expert for contractor who installed drainage and backfill behind 5 miles of site retaining walls in Woodland Hills.

- Lejman & Lee, Incorporated, Principal (August 1985 to November 1996)

Extensive forensic studies for damage to residential, commercial, and industrial buildings for insurance companies and law firms. Project manager and project soil engineer on landslide investigations, metering station, highway bridges, large highway embankment over soft alluvium requiring staged construction, large RCB culvert beneath high embankment. Bridge foundations consisted of large diameter drilled shafts installed under slurry, small diameter drilled shafts installed with casing and driven piles. Designed stone columns to stabilize embankment on liquefiable soils. Extensive embankment monitoring experience with inclinometers, pore pressure transducers, and settlement plates. Expert witness for litigations involving residential structures and retaining walls. Consultant on hillside tract development.

- D.A. Evans, Incorporated, Senior Geotechnical Engineer (February 1979 to August 1985)

Project manager and project engineer on large hillside tract developments, landslide investigations, commercial and industrial developments, high retaining walls on and adjacent to active fault in Signal Hill, reservoirs including reservoir site in Signal Hill, lift stations, highway bridges, road widening projects and distress investigations. Duties

included: City Geotechnical review services, training staff engineers, proposal preparation, field inspections and investigations, assignment of laboratory testing, analysis, and report writing.

- Leighton and Associates, Incorporated, Senior Geotechnical Engineer (July 1973 to February 1979)

Supervised two registered engineers. Performed engineering analysis, report writing, project management and City Geotechnical review services. Projects included large hillside tract developments, sewage treatment plant, analysis and stabilization of landslides, rock bolting design, analysis of bridge abutment subsidence, distress studies, seismic safety elements, railroad lowering projects, foundation investigations for commercial, industrial, and school buildings.

- Geolabs-Nevada, Incorporated, Senior Engineer (July 1972 to July 1973)

Supervised field and laboratory personnel. Performed engineering analysis, report writing, and part-time office management. Projects included foundation investigations for high-rise structures, dewatering studies, salt heave research, and residential tract developments.

- Geolabs-California, Incorporated, Senior Engineer (March 1967 to July 1972)

Performed engineering analysis, field exploration, report writing, personnel supervision. Worked closely with engineering geologists. Projects included large hillside tract developments in Orange County, high-rise structures, reservoirs, tunnels, pipelines, roads, and landslide analysis.

- Donald R. Warren, Incorporated, Staff Engineer/Project Soil Engineer (November 1965 to March 1967)

Duties included field exploration and sampling for foundation investigations, writing foundation and engineering reports for a variety of structures including heavy industrial buildings and high-rise structures, performing inspections of footings, caissons, cast-in-place piles and driven piles, and performing slope stability calculations and buttress designs.

- Los Angeles County Flood Control District, Soil Mechanics and Foundation Section, Civil Engineering Assistant/Senior Civil Engineering Assistant (March 1963 to November 1965)

Duties included computer programming, report writing, field exploration and sampling, installation of piezometers in one of the District's earth dams, supervision of soil mechanics laboratory for six months, performance of pile load tests and inspection of driven piling, and supervision of field density testing crews.

## SEMINARS AND SHORT COURSES

California State University, Long Beach, *Principles and Practices of Seismic Design*, Long Beach, California, Fall, 1981.

George Washington University, *New Probability-Based Design Procedures in Geotechnical Engineering*, San Diego, California, October 19-23, 1981.

University of Missouri - Rolla, *11th Annual Fundamentals of Deep Foundation Design*, Rolla, Missouri, November 10-14, 1986.

EERI, *Strong Ground Motion*, Los Angeles, California, April 10 & 11, 1987.

The Asphalt Council of California, *Design of Hot Mix Asphalt Pavements*, Orange, California, October 27, 1988.

University of Missouri - Rolla, *Seismic Design and Analysis of Small and Medium Embankment Dams*, Rolla, Missouri, March 20-24, 1989.

The Reinforced Earth Company, *Technical Symposium - Reinforced Earth Design, Materials, and Construction*, Anaheim, California, March 26, 1990.

ASCE, *Los Angeles Drilled Foundations Seminar*, Los Angeles, California, December 5, 1990.

Metzger/McGuire, *Industrial Concrete Floors*, Irvine, California, January 11, 1991.

Mirafi Inc., *Retaining Wall Design Seminar*, Santa Ana, California, February 22, 1991.

USC, *Evaluation and Mitigation of Earthquake Induced Liquefaction Hazards*, Los Angeles, California, February 4 & 5, 1991.

Goble, Rausche, Likins and Associates, *Dynamic Testing & Analysis of Deep Foundations Seminar*, Los Angeles, California, March 8 & 9, 1991.

ADSC, *Earth Retention Seminar*, Oakland, California, May 19 & 20, 1992.

ASCE, *Selecting Earth Retaining Structures*, Irvine, California, March 8, 1993.

ASCE, *Excavation Safety*, San Diego, California, March 19, 1993.

ACI, *Designing Reinforced Concrete*, San Diego, California, September 27 & 28, 1993.

Ensoft, *Design of Deep Foundations Piles and Drilled Shafts Under Lateral and Axial Loading*, Law-Crandall, Los Angeles, California, August 30 & 31, 1994.

Robertson, Peter K. And Woeller, David J., *A Short Course on Cone Penetration Testing*, Sponsored by Gregg In Situ, Huntington Beach, California, March 27, 1996

ASCE and Governor's Office of Emergency Services, Procedures for Post-Earthquake Damage Assessment Training, Safety Evaluation of Buildings, California State Polytechnic University, Pomona, October 26, 1996.

ASCE, 2nd Annual Seminar on Issues in Forensic Engineering "The Engineer as an Expert Witness", UCI, May 9, 1997.

ADSC, Anchored Earth Retention Seminar, Glendale, California, November 13-14, 1997.

Post-Tensioning Institute, Current Practice and Advancements of Post-Tensioned Residential Slabs on Expansive Soil, Anaheim, California, November 19, 1997.

ACI, Concrete Repair Basics, Pomona, California, March 31, 1998.

ASCE, Third Annual Seminar/Workshop on Issues in Forensic Engineering "The Future of Forensic Engineering", UCI, May 15, 1998.

University of California, Berkeley, "Evaluation and Mitigation of Seismic Hazards," Los Angeles, California, July 30 - August 1, 1999.

ASCE, Forensic Engineering Group, Fourth Annual Seminar, "Lessons Learned in Forensic Engineering", UCI, May 7, 1999.

Virginia Tech, Slope Stability Seminar, Long Beach, California, July 23, 1999.

Post-Tensioning Institute, Foundation Performance Association and Geotech Engineering and Testing, "Seminar on Design of Foundations on Expansive Soils", Houston, Texas, November 5, 1999.

Colorado State University, "Building on Expansive and Collapsing Soil", San Diego, California, April 17, 2000.

ASCE, Forensic Engineering Technical Group, Los Angeles Section, 5<sup>th</sup> Annual Seminar, "Expert Services for Construction Related Cases", UCI, May 12, 2000.

Structural Engineers Association of Southern California, "Practical Design and Detailing Seminar on Foundations of Expansive Soils", Monterey Park, California, June 7, 2000.

Structural Engineers Association of Southern California, "Geotechnical Aspects of Retaining Wall Design and Basics of Retaining Wall Design", Costa Mesa, California, February 13, 2002.

Gregg In Situ, Inc., “A Short Course on Cone Penetration Testing”, presented by Dr. Peter K. Robertson, University of Alberta, Canada, and David J. Woeller, Conetec Investigations, Ltd., Long Beach, California, May 6, 2002.

SCEC, “Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California”, USC, June 20-21, 2002.

Slope Indicator, Short Course on Data Reduction & Error Correction for Inclinometers by Erik Mikkelsen, Ventura, California, September 17 & 18, 2002.

Hayward Baker, Ground Modification Seminar, Costa Mesa, California, September 19, 2002.

ASCE Continuing Education Seminar, “Finite Elements in Geotechnical Engineering”, D. Vaughan Griffiths, Phoenix, Arizona, October 24-25, 2002.

ASCE Continuing Education Video Course, “Fundamentals of Reinforced Concrete Design: Part One”, Auburn University Business and Continuing Education, November 16, 2002.

ADSC, Micropile Design & Construction Seminar, Irvine, California, November 21-22, 2002.

Stark Consultants, Inc., “Analysis of Landslides: Shear Strengths, Testing, and Stability Methods”, Short Course by Dr. Timothy D. Stark, P.E., Los Angeles, California, March, 2003.

ASCE Continuing Education Video Course, “Fundamentals of Reinforced Concrete Design: Part Two”, Auburn University Business and Continuing Education, April 13, 2003.

Soil Retention Seminar sponsored by Soil Retention Systems, Lecture by Dov Leshchinsky, February 24, 2004, Carlsbad, California.

Orange County Branch ASCE Seminar, Pavement Design - Four hour seminar given by Steve Marvin of LaBelle-Marvin and Mike Costello, RDMD Materials Engineer, September 24, 2004, Santa Ana, California.

GEO-SLOPE International Ltd., 4<sup>th</sup> Annual Geotechnical Modeling Workshop, September 27-29<sup>th</sup> 2004, Calgary, Canada.

Structural Engineers Association of Southern California, Practical Design & Detailing Seminar Series and Dinner Meeting, “Retaining Wall Design” by Fred Schott of Fred Schott & Associates, “Pile Foundation Design” by Kerry Fearington of Brandow & Johnson Associates, and “Structural Observation: Post-Tensioned Concrete” by Manuel Morden of Brandow & Johnson Associates, Monterey Park, California, April 6, 2005.

Post-Tensioning Institute Slab-on-Ground Seminar, “Design of Post-tensioned Foundations Using the New 3<sup>rd</sup> Edition of PTI’s Design of Post-Tensioned Slabs-on-Ground”, August 10, 2005, Garden Grove, California.

The Skyline Steel Lecture Series, “Innovations in Steel” Steel Sheet Pile Applications for Deep Foundations & Retaining Structures, June 6, 2006, Santa Ana, California.

Deep Foundations Institute, DFI Specialty Seminar: “Seismic and Lateral Loads”, March 23, 2007, Carlsbad, California.