

DENIZ KARADENIZ

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OBJECTIVE

To obtain a full time position as a geotechnical/geological engineer.

EDUCATION

University of Missouri Rolla (UMR) December 2007
Ph.D. Geological Engineering GPA: 4.00
Dissertation Title: *Development of a prototype seismic hazard map protocol for the greater St. Louis Metropolitan Area (Granite City, Monks Mound, and Columbia Bottom Quadrangles), Missouri and Illinois*

University of Texas at Arlington (UTA) December 2003
M.S. Geology GPA: 4.00
Thesis Title: *The cohesive slope stability analysis using cyclic triaxial test results*

Dokuz Eylul University (DEU), Turkey August 1999
B.Sc. Geological Engineering GPA: 3.00
Thesis Title: *The engineering geology and hydrogeology of new Dokuz Eylul University Campus Area*

COURSES

Soil Stabilization	In Situ Soil Testing and Interpretation
Foundation Design and Analysis	Discontinues Rock Engineering
Soil Behavior	Geographic Information Systems
Experimental Soil Mechanics	Designing with Geosynthetics
Numerical Analysis in Geotechnical Engineering	Intermediate Hydrogeology
Advanced Geotechnical Earthquake Engineering	Engineering Geology and Geotechnics

RESEARCH EXPERIENCE

University of Missouri Rolla (UMR) Aug 2004 - present
Graduate Research Assistant Rolla, Missouri

- Conducted seismic site response and liquefaction analysis on three highway bridges in the St. Louis Area.
- Created and manipulated mathematical models and FORTRAN simulations for the calculation of the probabilistic and deterministic seismic hazard distribution maps of the Granite City and Monks Mound Quadrangles, St Louis, MO and IL.
- Assisted logging and interpretation of the soil profiles in New Orleans Levee Failure area and took part in the preparation of the Chapter 3 of the NSF New Orleans report
- Develop and create earthquake waves amplification maps, alluvium thickness distribution maps and depth to the bedrock distribution maps for the same quadrangles and perform sensitivity analysis.
- Involve in the St Louis Earthquake Hazard Technical Working Group, actively participate in decision making, help prepare the presentations and compile the available data for the hazard analysis.

TEACHING EXPERIENCE

University of Missouri Rolla (UMR) 2004 – 2007
Graduate Teaching Assistant Rolla, Missouri
Geomorphology, during Spring 2007
Subsurface Hydrology, during Fall 2006
Geology for Engineers, every semester Fall 2004 through Spring 2006

University of Texas at Arlington (UTA) 2001 – 2004
Graduate Teaching Assistant Arlington, Texas
Igneous and Metamorphic Petrology, during Spring 2004
Mineralogy, during Fall 2003
Structural Geology, during Spring 2002 and Spring 2003
Field Geology, during Summer 2002
Earthsystems, December 2001 through Spring 2004

WORK EXPERIENCE

SUMET Earthsciences and Engineering Firm

Oct 1999 July 2000

Chief Geological Engineer

Izmir, Turkey

- Produced approximately 50 soil mechanics, geotechnical and geological reports.
- Controlled the working of drilling machines and assisted in taking soil/rock samples and logging.
- Prepared 1/100, 1/5000, 1/25000 scaled geotechnical-geological engineering maps and sections for various sites showing geological features, different soil qualities, water levels and areas not suitable for construction.

GRANITAS Incorporated

Summer 1999

Geological Engineer

Istanbul, Edirne

- Prepared the geological maps of granitic boulders and mapped the faults, fissures and cracks of the two granitic mines; one near Nevsehir in Central Anatolia, the other near Kizilirmak, west of Istanbul.
- Presented a report which included the site productivity, methods and directions of production and suggested ways of increasing quality and productivity.

COMPUTER SKILLS

Windows 9x/2000/XP

Microsoft Office

Adobe Photoshop

Corel Draw

ArcGIS

PLAXIS 8.2

SLOPE/W, SEEP/W

QUAD 4M -2D

Shake91

Shake2000

FORTRAN

LINUX

PUBLICATIONS

R. B. Seed, R. G. Bea, R. I. Abdelmalak, A. G. Athanasopoulos, G. P. Boutwell, J. D. Bray, J.-L. Briaud, C. Cheung, D. Cobos-Roa, J. Cohen-Waeber, B. D. Collins, L. Ehrensing, D. Farber, M. Hanemann, L. F. Harder, K. S. Inkabi, A. M. Kammerer, **D. Karadeniz**, R.E. Kayen, R. E. S. Moss, J. Nicks, S. Nimmala, J. M. Pestana, J. Porter, K. Rhee, M. F. Riemer, K. Roberts, J. D. Rogers, R. Storesund, A. V. Govindasamy, X. Vera-Grunauer, J. E. Wartman, C. M. Watkins, E. Wenk Jr., and S. C. Yim, July 2006, *Investigation of the Performance of the New Orleans Flood Protection systems in Hurricane Katrina on August 29, 2005*, Independent Levee Investigation Team, UCB, Final Report.

Rogers, J. D., Karadeniz, D., and Kaibel, C., (2006) "Seismic Site Response Modeling of Three Missouri Highway Bridges," *Journal of Earthquake Engineering* (peer reviewed and accepted for publication).

Karadeniz, D. and Rogers, J. D., (2007) "Comprehensive overview of seismic zones of the Central United States," (In preparation).

Karadeniz, D. and Rogers, J. D., (2007) "Variations in shear-wave velocity and lithology in the St Louis Metropolitan Area," (In preparation).

CONFERENCE PAPERS

Karadeniz, D., and Rogers, J. D., "New Perspectives on seismic threat posed by the New Madrid, South Central Illinois and Wabash Valley Fault Zones," Association of Engineering Geologists National Conference, Las Vegas, Arizona, September 2005.

Rogers, J., and Karadeniz D., "New Findings regarding the seismic threat posed by the New Madrid, South Central Illinois and Wabash Valley Fault Zones on structures in the St Louis Metro Area," 77th Annual Meeting of the Eastern Section of the Seismological Society of America, Memphis, Tennessee, October 2005.

HONORS & ACTIVITIES

- University of Texas at Arlington - Geology Department **Scholarship**
- University of Texas at Arlington - **Academic Excellence Award**
- University of Texas at Arlington - **Outstanding International Student Award**
- University of Texas at Arlington - **Outstanding International Scholar Award**
- Phi Beta Delta International Scholar
- The National Scholars Honor Society
- Association of Engineering Geologists (AEG) - UMR Student Chapter **President**
- Association of Engineering Geologists (AEG) - UMR Student Chapter **Vice President**

OTHER: Approved for M.S. in Geotechnical Engineering and be capable of receiving the degree in one semester.