

**Lili Nova-Roessig, Ph.D., P.E.**  
**Senior Engineer**

**Professional Profile**

Dr. Lili Nova-Roessig is a Senior Engineer in Exponent's Civil Engineering practice. Dr. Nova-Roessig specializes in geotechnical engineering and has expertise in the areas of slope performance and failures, soil structure interaction, analysis and design of foundation and retaining structures, reinforced soil slopes and walls, soil nail walls, geotechnical earthquake engineering, evaluation of ground movement due to expansive soils, seismic settlement analysis, site drainage and winterization, moisture intrusion, and fire damage to foundations. She has broad laboratory experience, including direct shear testing of soil-sheet interfaces, triaxial and consolidation testing, and centrifuge modeling of reinforced soil walls using both the Schaevitz and National Centrifuge Facilities at the University of California at Davis. Dr. Nova-Roessig helped implement the set up the seismic retrofit of a children's center in Oakland, including the installation of foundation bolts and shear stiffeners. In addition, she is fluent in Spanish and has worked on geotechnical projects in Panama and Peru.

Prior to joining Exponent, Dr. Nova-Roessig worked for the Geotechnical Group of the East Bay Municipal Utilities District and served as a graduate student researcher at the University of California, Berkeley.

**Academic Credentials and Professional Honors**

Ph.D., Civil/Geotechnical Engineering (minors: Environmental Engineering and Engineering Analysis), University of California, Berkeley, 1999

M.S., Civil/Geotechnical Engineering, University of California, Berkeley, 1994

B.S., Engineering, University of California, Berkeley, 1993

Antonia Fung Memorial Fellowship; Margaret E. McCamish Scholarship

**Licenses and Registrations**

Licensed Civil Engineer, California, #C64555

## **Publications**

“Centrifuge Model Studies of the Seismic Response of Reinforced Soil Slopes,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE March 2006 (with N. Sitar).

“Centrifuge Studies of the Seismic Response of Reinforced Soil Structures,” Ph.D. Dissertation, University of California, Berkeley, 1999.

“Centrifuge Model Studies of the Seismic Response of Reinforced Soil Slopes,” *Proceedings of the Second International Conference on Earthquake Geotechnical Engineering*, Lisbon, Portugal, 1999 (with N. Sitar).

“A Review of Seismic Behavior of Reinforced Soil Structures,” *Proceedings, Second International Conference on Earthquake Geotechnical Engineering*, Lisbon, Portugal, 1999 (with N. Sitar).

“Centrifuge Studies of the Seismic Response of Reinforced Soil Slopes,” *Proceedings, 1998 Geotechnical Earthquake Engineering and Soil Dynamics Conference*, Vol. 1, Seattle, WA, 1998 (with N. Sitar).

“The Seismic Response of Reinforced Soil Slopes: A Progress Report,” *Proceedings, Fifth Annual Caltrans Seismic Workshop*, Sacramento, CA, 1998 (with N. Sitar).

“Seismic Response of Steep Natural Slopes, Structural Fills and Reinforced Soil,” *Proceedings, Fourteenth International Conference on Soil Mechanics and Foundation Engineering*, Hamburg, Germany, 1997 (with N. Sitar, S.A. Ashford, and J.P. Stewart).

“Seismic Response of Reinforced Soil Walls,” *Proceedings, Fourth Caltrans Seismic Research Workshop*, Sacramento, CA, 1996 (with N. Sitar).

## **Reports**

“Centrifuge Studies of the Seismic Response of Reinforced Soil Slopes,” Progress report prepared for CalTrans, Award No.RTA-59A130-5, Geot. Report No UCB/GT/97-01, 1997 (with N. Sitar).

“A Review of Seismic Design Methods for Reinforced Soil Walls and Slopes,” Progress report prepared for CalTrans, Award No.RTA-59A130-5, Geot. Rep. No UCB/GT/96-06, 1996 (with N. Sitar).

## **Presentations**

“Estimating Seismic Compression and Foundation Settlement During Post-Earthquake Investigations,” Presentation to: Geo-Engineering Group of the Department of Civil Engineering, University of California at Berkeley, October 15, 2003.

“Investigation of a Condominium Complex after the Northridge Earthquake,” Presentation to: Geo-Engineering Group of the Department of Civil Engineering, University of California at Berkeley, February 7, 2001 (with Gretchen Rau).

“Seismic Response of Reinforced Soil Walls,” Fourth Caltrans Seismic Research Workshop, Seismic Research at UC Berkeley, Sacramento, CA, July 10, 1996.

### **Professional Affiliations**

- American Society of Civil Engineers (member)
- Geo-Institute (member)