

W. ROBERT THOMPSON, III, P.E., D.GE

Dan Brown and Associates, PC

EDUCATION

- MS 1994 Civil Engineering, Auburn University
- BS 1988 Civil Engineering, Auburn University

EXPERIENCE AND EMPLOYMENT RECORD

- 2005-present: Principal/Senior Project Engineer, Dan Brown and Associates, LLC, Sequatchie, Tennessee
- 2004-05: Senior Geotechnical Engineer, TTL, Inc., Montgomery, Alabama
- 1999-2004: Senior Geotechnical Engineer/Geotechnical and Construction Services Manager, TTL, Inc., Montgomery, Alabama
- 1997-99: Senior Engineer/Geotechnical and Construction Services Manager, Law Engineering and Environmental Services, Inc., Birmingham, Alabama
- 1994-97: Geotechnical Project Engineer, Law Engineering and Environmental Services, Inc., Birmingham, Alabama
- 1992-94: Graduate Research Assistant, Department of Civil Engineering, Auburn University, Alabama
- 1989-92: Platoon Leader and Company Executive Officer, U.S. Army, Fort Polk, Louisiana

PROFESSIONAL

- President, Alabama Chapter of the Geo-Institute of ASCE
- Secretary, ASCE Geo-Institute Deep Foundations Committee
- Member, American Society of Civil Engineers, Geo-institute of ASCE, and Deep Foundations Institute
- Technical Affiliate, ADSC: The International Association of Foundation Drilling and Pile Driving Contractors Association
- Licensed Professional Engineer: AL; FL; GA; LA; MS; OH;

HONORS AND AWARDS

- 1993 ADSC: The International Association of Foundation Drilling Industry Advancement Fund Civil Engineering Graduate Study Scholarship
- 1992 Bronze Star Medal – U.S. Army, Operation Desert Storm

PROFESSIONAL INTERESTS AND SUMMARY

Mr. Thompson is accomplished in geotechnical engineering and design. He is experienced in planning and executing geotechnical site investigations using a variety of drilling, sampling and in-situ testing techniques. He is also experienced in performing and analyzing data from geotechnical laboratory testing including classification, consolidation, permeability, swell, and triaxial shear tests. His experience in geotechnical design and analysis includes deep foundations, shallow foundations, earth retaining structures, ground improvement techniques, and earth slopes and slope failure investigations. He also has extensive experience in inspection/testing of foundations and construction materials.

RECENT REPRESENTATIVE PUBLICATIONS

Axtell, P.J., Thompson, W.R., and Brown, D.A., 2009. "Drilled Shaft Foundations for the kclCON Missouri River Bridge", Deep Foundations Institute 34th Annual Conference on Deep Foundations, Conference Proceedings 2009, October 21-23, 2009, Kansas City, Missouri, pp. 3-12.

- Brown, D.A. and Thompson, W.R., 2009. "Drilled Shaft Performance in Cemented Calcareous Formations in the Southeast United States", 2009 International Foundation Congress and Equipment Expo, Contemporary Topics in Deep Foundations, Geotechnical Special Publication No. 185, ASCE, pp. 119-126.
- Brown, D.A. and Thompson, W.R., 2009. "Performance of Drilled Shaft Foundations in Limestone, Nashville, Tennessee" *Foundation Drilling*, Vol. 30, No.4 May 2009.
- Brown, D., Dapp, S., Thompson, R. and Lazarte, C. 2007. "Design and Construction of Continuous Flight Auger Piles," Geotechnical Engineering Circular No. 8, Federal Highway Administration Office of Technology Application, Office of Engineering/Bridge Division, 294p.
- Pierson, M., Parsons, R.L., Han, J., Brown, D.A. and Thompson, W.R., 2008. "Capacity of Laterally Loaded Shafts Constructed Behind the Face of a Mechanically Stabilized Earth Block Wall", Report for the Kansas Department of Transportation.
- Thompson, W.R., Held, L., and Saye, S., 2009. "Test Pile Program to Determine Axial Capacity and Pile Setup for the Biloxi Bay Bridge", DFI Journal Volume 3, No. 1, May 2009, Deep Foundations Institute, pp13-22.
- Thompson, W.R., Hill, J.R., and Loehr, J. E., 2009. "Case History: Value Engineering of Driven H-Piles for Slope Stability on the Missouri River", 2009 International Foundation Congress and Equipment Expo, Contemporary Topics in Deep Foundations, Geotechnical Special Publication No. 185, ASCE, pp207-214.

SELECTED RECENT CONSULTING PROJECTS

- ***Foothills Parkway Bridge No. 2, Townsend, TN***; Designed rock bearing and micropile supported bridge foundations to minimize impact to surrounding environment. Bridge foundations were designed to resist forces from soil movements on colluvial slope above bedrock.
- ***LPV-145 Levee Project, LA***. Performed static and driveability analyses for driven piles (open-ended pipe piles, H-piles) and evaluated pile load test data.
- ***I-15 Beck Street Bridge, Salt Lake City, UT***; Designed drilled shaft and driven pile foundations to include liquefaction and lateral spread effects. Large diameter shafts (8 feet) were utilized and installed using oscillator methods.
- ***Christopher S. Bond Bridge, Kansas City, MO***. Supervised field exploration and performed geotechnical design for cable-stayed Missouri River crossing, currently under construction with drilled shaft foundations socketed into rock.
- ***Riverbank Stabilization for UP Railroad, Gasconade, MO***; Performed value-engineering slope stability analyses and design to mechanically stabilize a railroad bed slope adjacent to the Missouri River. Design included replacing planned jet-grouted columns with driven H-piles.
- ***Cumberland River Pedestrian Bridge, Nashville, TN***; Performed stability analyses and foundation design for micropile supported bridge pier foundation adjacent to the river.
- ***Biloxi Bay Bridge, Biloxi, MS***; Foundation consultant on replacement of U.S. 90 bridge destroyed by hurricane Katrina, recently completed with driven pile foundations.