



DAN A. BROWN, P.E., Ph.D., D.GE  
President and Senior Principal Engineer



## Professional Experience

Years of experience at DBA: 9 (2005 – present)  
Faculty, Auburn University, Auburn, Alabama (1987-2009)  
Geotechnical Consultant, Soil Testing Engineers, Baton Rouge, Louisiana (1977-1986)

## Education

Ph.D., Civil Engineering, University of Texas, 1985  
M.S., Civil Engineering, Georgia Institute of Technology, 1977  
B.S., Civil Engineering, Georgia Institute of Technology, 1976

## Professional Registration and Licensure

Licensed Professional Engineer in 32 states and the District of Columbia  
Diplomate, Geotechnical Engineering – The Academy of Geo-Professionals

## Fields of Expertise

Design, construction, and load testing of deep foundations, including specialty foundations  
Design of deep foundations and pile groups for complex axial, lateral, and dynamic loading scenarios  
Design and construction of post grouted drilled shafts  
Slope stability and excavation stability analyses in soil and/or rock  
Ground improvement techniques

## Recent Major Projects

- Goethals Bridge** – NY/NJ (2014) – Foundation design for P3 project delivery of new cable stayed bridge crossing the Arthur Kill for Port Authority of NY/NJ; pylons and approach piers supported on large diameter drilled shafts.
- St. Croix River Bridge** – Stillwater, MN (2013) – Foundation design for new extradosed bridge crossing the St. Croix River; pylons supported on groups of drilled shafts and other piers on driven steel pipe piles.
- Sellwood Bridge** – Portland, OR (2013) – Foundation design for new Willamette River crossing founded on large drilled shafts in highly variable rock conditions.
- Gilmerton Bridge** – Chesapeake, VA (2011) – Foundation design for new bridge crossing the S. Fork of the Elizabeth River, constructed with 12ft diameter drilled shafts in close proximity to existing bascule rail and highway bridges.
- Hastings Mississippi River Bridge** – Hastings, MN (2010) – Foundation design for new arch bridge river crossing including driven pipe piles, drilled shafts, and pile supported embankment.
- Foothills Parkway Bridge 2** – Blount County, TN (2010) – Foundation designer for a 950 foot long elevated scenic roadway in mountainous terrain. The foundations consisted of micropiles and spread foundations.
- Light Rail Elevated Guideway Structure** – Honolulu, HI (2010) – Foundation consultant on drilled shaft foundations for 6 mile long elevated structure in a congested urban environment.
- New Mississippi River Bridge** – St. Louis, MO (2009) – Foundation design via alternate technical concept (ATC) and load testing for a new cable-stayed bridge founded on large diameter drilled shafts socketed into Limestone bedrock.
- I-15 Beck St. Bridge** – Salt Lake City, UT (2009) – Lead geotechnical designer for bridge crossing, with large diameter drilled shaft foundations in liquefaction-prone area.
- Christopher S. Bond Bridge** - Kansas City, MO (2006) – Lead geotechnical designer for cable-stayed Missouri River crossing, with drilled shaft foundations socketed into rock.

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### Professional Memberships and Honors

American Society of Civil Engineers (ASCE) and Geo-Institute (GI) of the ASCE  
2010 Martin Kapp Foundation Engineering Award  
1995 Walter L. Huber Research Prize for: "deep foundations for bridges"  
Past Chair, Deep Foundations Committee  
Deep Foundations Institute (DFI) – Trustee and Vice President  
2011 Distinguished Service Award  
The Moles, an Association of Individuals Engaged in Heavy Construction  
ADSC: The International Association of Foundation Drilling  
1994 Outstanding Service Award  
1995 Honorary Technical Affiliate  
Pile Driving Contractor's Association (PDCA) - Honorary Member  
Transportation Research Board (TRB)  
Committee on Foundations of Bridges and Other Structures  
2012 Academy of Distinguished Alumni, Dept. of Civil Engineering, University of Texas  
2009/10/11 Instructor of Excellence Award, National Highway Institute  
2015 Lymon C. Reese Lecture, University of Texas  
2012 Osterberg Lecture, DFI  
2007 Mike O'Neill Lecture at University of Houston  
2005 Converse-Ware Lecture at New Jersey Institute of Technology  
1998 Recipient of the Auburn University Gottlieb Professorship

### Selected Publications

Brown, D., and Saye, S., 2013. "Effective Practices for Geotechnical Information in Design-Build," Invited presentation to the Design-Build Institute Annual Conference, Design-Build in Transportation, Orlando.

Brown, D., 2012. "Recent Advances in the Selection and Use of Drilled Foundations," Invited State-of-the-Practice Lecture, Geotechnical Special Publication No. 226, ASCE, pp519-548.

Brown, D., 2012. "Factors Affecting the Selection and Use of Drilled Shafts for Transportation Infrastructure," Proceedings of Geo-Construction Conference, ADSC Expo2012, San Antonio, pp. 25-36.

Brown, D.A., Axtell, P.J., and Kelley, J. (2011) "The Alternate Technical Concept Process for Foundations at the New Mississippi River Bridge, St. Louis," *Proceedings: Deep Foundations Institute 36th Annual Conference*, pp. 171-177.

Brown, D. and Thompson, R. 2011. "NCHRP Project 20-5, Synthesis Topic 41-10, Developing Production Pile Driving Criteria from Test Pile Data," Report to the National Cooperative Highway Research Program, 145p.

Brown, D., Turner, J., and Castelli, R. (2010). "Drilled Shafts: Construction Procedures and LRFD Design Methods," FHWA/NHI Publication 10-016, Reference Manual and Participants Guide for NHI Course 132014, 972p.

Brown, D., Faust, P., and Santos, J. (2010). "Construction of the Drilled Shaft Foundations for the Huey P. Long Mississippi River Bridge, New Orleans," Proceedings of the Deep Foundation Inst. 35<sup>th</sup> Annual Meeting, Hollywood, CA, 8p.

Brown, D. (2010). "Constructability Considerations in the Selection and Design of Drilled Shafts for Bridges." Proc, 7th Int'l Bridge Conf, Transportation Research Board, San Antonio, TX, 8p.

Brown, D. (2009). "Management of Risk in Deep Foundations with Design-Build." Invited keynote lecture, Int'l Foundations Congress, Orlando and GSP 185, ASCE, p 1-11.

Brown, D., and Thompson, R. (2009). "Drilled Shaft Performance in Cemented Calcareous Formations in the Southeast U.S.," GSP 185, ASCE, p 119-126.

Brown, D. (2007). "Construction of Large Drilled Shafts," The 2<sup>nd</sup> Annual Mike O'Neill Honorary Lecture, Journal of the Deep Foundations Institute, 15p.

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Brown, D. and Schindler, A. (2007). "High Performance Concrete and Drilled Shaft Construction" GSP 158, *Contemporary Issues in Deep Foundations*, ASCE, 12p.