

Curriculum Vitae

Gregory Benton Poole

Professional Engineer

Greg Poole began his career in the drilling & blasting industry in 1985 with D&L Thomas Equipment Corp. in Spofford, New Hampshire. While working for the drilling & blasting supply company, Greg began his training in the industry he still works in today.

In 1991 he obtained his BS in Civil Engineering from Worcester Polytechnic Institute in Worcester, Massachusetts. After graduation, Greg was trained in blasting and vibration consulting while he worked for Vibration Consultants, Inc. and later PreSeis, Inc. While in New England he performed a variety of blast consulting services including preblast inspections, vibration monitoring and damage claim assessments for a variety of blasting companies, explosives suppliers, quarries and insurance companies. After relocating to Atlanta, Georgia he joined Sauls Seismic, LLC (Sauls) in 1999 where he continued to expand on his expertise in the blasting and vibration consulting industry.

As part of his work at Sauls, Greg has provided advanced technical services and professional engineering to the drilling, blasting, construction and mining industries. Over time, Greg expanded his focus from blast consulting, vibration and airblast monitoring, analysis and damage claim investigations to include additional instrumentation such as sound monitoring, digital displacement monitoring, well testing, and many other geotechnical and environmental sensors. He provides expert witness testimony for attorneys, insurance companies and other clients along with participating in public meetings and training seminars. Greg is currently VP of Technical Services, and he continues to perform all of the services he has provided for years in addition to providing training and technical support for all of the field personnel at Sauls.

Greg became a member of the International Society of Explosives Engineers (I.S.E.E.) in 1996 and has since authored and presented multiple papers for I.S.E.E. Annual Conferences. He has been involved in local I.S.E.E. chapters including membership to the New England Chapter and the president of the Peach State Chapter.

Greg is currently registered as a Professional Engineer (PE) in Alabama, Florida, Georgia, Maryland, Indiana, New Jersey, Texas and Ohio and has previously been licensed in Louisiana, North Carolina, South Carolina, Virginia and DC. Additionally, he is registered with the NCEES Records program in order to facilitate faster PE registration in additional states as necessary.

Projects

During his career Greg has been involved in hundreds of projects involving vibration monitoring and data analysis for the prevention of damage to adjacent structures. Greg has evaluated vibrations from blasting and heavy construction (pile driving, compaction, tunnel boring, etc.) in order to help prevent damage from occurring and analyze whether damage complaints are valid.

Third Harbor Tunnel and Central Artery – Boston, MA (1992) - *Moving interstate highways underground and new tunnel across Boston Harbor. Greg performed preblast inspections and monitoring.*

Bay Area Rapid Transit (BART) Extensions - San Francisco, CA (1995) - *Transit system extensions in residential areas. Greg performed preconstruction inspections.*

Muni-Metro Turnback Project - San Francisco, CA (1994) - *Public Transportation project in historic area. Greg performed preconstruction inspections.*

Deer Island Outfall Tunnel – Boston, MA (1996) - *9-mile tunnel under Boston Harbor for treatment facility discharge. Greg performed vibration monitoring at the end of tunnel for connection to diffusers.*

Chattahoochee, Nancy Creek and West Area CSO Tunnels – Atlanta, GA - (2000-2004) - *Shafts and Tunnels for improved wastewater system. Greg oversaw the preconstruction inspections, vibration monitoring and provided vibration calculations.*

Columbus Quarry - Fortson, GA - (2012) - *Expansion of quarry operations near the Fortson Home (historic register #99000657). Greg provided guidance and references for a vibration study of the historic home.*

Spotsylvania Quarry – Fredericksburg, VA - (2009) - *New Quarry site in Spotsylvania, VA – area surrounded by pre civil war structures. Greg provided preblast inspections of homes/structures.*

Mansion on Peachtree – Atlanta, GA - (2006) - *Excavation and blasting for a new high-rise adjacent to a pre-civil war residence. Greg provided safe blasting limits for the historic structure.*

300 South Tryon – Charlotte, NC - (2007) - *Construction of a new high-rise within 20 feet of historic Brevard Court in Charlotte, NC. Greg provided an assessment of adjacent structures prior to construction.*

Sparta Quarry – Sparta, GA - (2010) - *Reopening of a quarry near the Rockby historic site (historic register #78000988). Greg provided recommendations for inspections and vibration limits prior to reopening the quarry.*

Center for Disease Control (CDC)-Building 24 – Atlanta, GA - (2009) - *Excavation and blasting activities within 10 feet of structures on the CDC campus. Greg oversaw preblast inspections, vibration monitoring and blast consulting for sensitive blasting operations.*

Canal Water Treatment Plant Improvements – Columbus, SC - (2010) - *Blasting and excavation for a new pump station. Greg oversaw preblast inspections and vibration, displacement and pore pressure monitoring.*

Saugahatchee Lake Complex – Opelika, AL - (2011) - *Blasting and excavation for a new water treatment facility. Blasting was required on land for onsite structures and underwater blasting is necessary for a water intake channel. Greg oversaw preblast inspections and vibration monitoring and provided blast consulting for onsite and underwater blasting activities.*

Mitchell Street Bridge Demolition – Atlanta, GA - (2011) - *Demolition and reconstruction of a bridge over Interstate 75/85 in downtown Atlanta. Greg performed vibration analysis and claim investigation.*

University of Georgia (UGA) Reed Alley Improvements – Athens, GA - (2010) - *Blasting and excavation within 10 feet of existing structures for the creation of a pedestrian walkway, vender area and restrooms in an area known as Reed Alley. Greg oversaw preblast inspections, vibration monitoring and blast consulting for sensitive blasting operations.*

Emory Oxford Road Multi-Use Building and Parking Deck– Atlanta, GA - (2009) - *Blasting and excavation within 10 feet of existing structures and H-pile and Lagging Shoring Walls for the creation of a new building and parking facilities. Greg oversaw preblast inspections, vibration monitoring and blast consulting for sensitive blasting operations.*

Snapfinger II WWTP Expansion – Atlanta, GA (2015) – *Blasting and excavation for expansion of a wastewater treatment plant southeast of Atlanta. Greg provided blast plan reviews, specification interpretation and on-site verification of shot loading.*

GDOT Hwy 92 Project – Douglasville, GA (2016-2020) – *Blasting activities for a highway widening and relocation project near existing Norfolk Southern Corporation property. Greg provided blast plan reviews and consulting to determine compliance with Norfolk Southern requirements.*

University of Georgia (UGA) STEM Building – Athens, GA (2019-2020) – *Blasting activities for site preparation for a new STEM building on the UGA campus. Greg provided blast plan reviews and consulting.*

Chickamauga Lock Excavation – Chickamauga, TN (2017-2018) – *Army Corp (USACE) project involving rock excavation for a new lock. Greg was involved in blast planning, vibration and airblast monitoring, regression analysis, and consulting for the project.*

Downstream Lock Excavation, Paducah, KY (2020-2022) – *Army Corp (USACE) project involving rock excavation for a new lock. Greg was involved in blast planning, vibration and airblast monitoring, regression analysis, and consulting for the project.*

Downstream Monoliths, Paducah, KY (2020-2022) – *Army Corp (USACE) project involving rock excavation for new monoliths related to new lock. Greg was involved in blast planning, vibration and airblast monitoring, regression analysis, and consulting for the project.*

CEPP Contract 10A, West Palm County, FL (2023-Current) – *Army Corp (USACE) project involving rock excavation for flow and seepage canals. Greg was involved in blast planning, vibration and airblast monitoring, regression analysis, consulting and was listed as the Vibration Control Specialist for the project.*

Publications

It Felt Like an Earthquake

ISEE Proceedings - February 7, 2005

Vibration reading from an earthquake compared to mining and construction blasting including Richter scale and particle velocity comparisons.

Public Relations Program on a Deep Tunnel Project in Atlanta

ISEE Proceedings - February 7, 2005

This paper is a review of the public relations program used on the Nancy Creek Tunnel project in Atlanta, Georgia.

Monitoring Concrete Block Damage at the Fultondale School

ISEE Proceedings - February 7, 2009

The school was scheduled for demolition; so blasting activities were allowed to produce vibration levels well above the safe levels established by the USBM. Seismographs and crack monitors were used to record actual damage levels in the structure.

Using Internet Resources to Improve Claim Reports

ISEE Proceedings - February 2, 2006

This paper provides suggestions for tracking down support information on the web and information on how to properly reference this information.

Close Proximity Blasting at the University of Georgia

ISEE Proceedings - February 4, 2011

Blasting on this project was performed less than 100 feet from students studying in their dorms at Reed Hall. Some shots are only a few from the columns on the stadium that hold up the sky boxes where meetings were being held while blasting was being performed.

The Specifications said No Blasting

ISEE Proceedings - February 12, 2012

Through education and advanced monitoring, a project owner was convinced to allow blasting on a project with several areas of concern.

Quarry, Quake or Quack

ISEE Proceedings – February 2, 2020

Vibration reading from an earthquake on December 12, 2018, at 4:14 AM EST registering a 4.4 magnitude on the Richter Scale in central Tennessee was compared to mining and construction blasting including Richter scale and particle velocity comparisons.

Microseconds Matter in Monitoring

ISEE Proceedings – January 31, 2022

Data collected with 16K sampling at a variety of blasting sites (construction, quarry, trench, mine) and monitoring locations were analyzed to effectively show the 16 different 1K readings all based on the microsecond that the unit went into monitoring.