



Eric J. Steward, Ph.D., P.E.

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EDUCATION

| | | | |
|---|----------------------------|-------|------|
| Louisiana Tech University | Engineering (Geotechnical) | Ph.D. | 2011 |
| Dissertation Title: <i>A Deterministic Method of Predicting Long-Term Pile Capacity in Cohesive Soils after the Dissipation of Excess Pore Water Pressure</i> | | | |
| Louisiana Tech University | Civil Engineering | M.S. | 2011 |
| Practicum Title: | | | |

RESEARCH INTERESTS

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Ashraf Mohamed, Committee Member, (Chair – J. Cleary), August 2015

"Predicting Ground Vibrations from Driving Scaled Piles"

Ronald Jones, **Chair**, May 2015

"Evaluation of pile setup using dynamic restrike analysis in the State of Alabama"

Cody Salter, Committee Member, (Chair – J. Richardson), February 2015

"Closed-form solution for couple-stress formulation of smoothly heterogeneous media"

Kibum Kwon, Committee Member, (Chair – A.V. Phan), Dec. 2014

"LaPlace-SGBEM analysis of the dynamic stress intensity factors and the dynamic T-stress for the interaction between a crack and auxetic inclusions"

Matthew Tabor, Committee Member, (Chair – A. Whelton), May 2014

"The Affect of Rehabilitated Stormwater Infrastructure on Water Quality and Daphnia magna Toxicity: A Field and Laboratory Investigation"

Andrew Gillis, Committee Member, (Chair – J. Cleary), May 2014

"Utilizing driven pile installation to predict ground vibration propagation"

Thomas Hassall, Committee Member, (Chair – K. White), Dec. 2012

"Biological Nitrogen Removal: Process Fundamentals, Kinetics & Configurations"

Master's Coursework

AnnaMarie Smith, *current*

Zachary Sherman, *current*

Oskar Velasquez Flores, 2021

Benjamin Gravlee, 2015

David Teague, 2014

Jared Landry, 2014

Greg Mercer, 2013

Samuel Sternberg, 2012

Blake Betbeze, 2012

UNDERGRADUATE RESEARCH STUDENTS

Nicolas Naylor, Fall 2018 - 2019

"Pile Driving Load Testing Analysis in GIS Utilized by the Alabama Department of Transportation"

Dillon Draughn, Summer 2018

"Organization and Analysis of Pile Driving Load Test Data by the Mississippi Department of Transportation"

Brittany McMillan, Summer 2016

"Analysis of the WBUZPILE Pile Driving Software Utilized by the Alabama Department of Transportation"

Brandon Smith, Fall 2013 - Spring 2014

“Organizing and evaluating pile setup using dynamic restrike analysis in the State of Alabama”

Raymond Buchanon, Jr., Summer 2013

“An experimental evaluation of the effects of



Steward, E. J., McMillan, B. (Supporting), "ALDOT Soil Mechanics Workshop," Sponsored by

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Conference Attendance, "20th VGS Symposium on Soft Ground Engineering", Vancouver Geotechnical Society, Section of the Canadian Geotechnical Society, Vancouver, BC. (June 2012).

Workshop, "Designing Effective Instruction in the classroom", Innovations in Learning (ILC) at USA, Mobile, AL. (March 2012).

Conference Attendance, "GeoCongress 2012", Geo-Institute of ASCE, Oakland, CA. (March 25, 2012 - March 29, 2012).

Workshop, "Active and Collaborative Learning in the classroom", Innovations in Learning (ILC) at USA, Mobile, AL. (February 2012).

Workshop, "Assessment and Evaluation in the classroom", Innovations in Learning (ILC) at USA, Mobile, AL. (November 2011).

SERVICE

Service at the University of South Alabama

- American Society of Civil Engineers Student Chapter, Faculty Advisor, 2012 – present
- Community Outreach for Mathematics, Engineering, and Technology (COMET), Faculty Advisor, 2015 – 2018
- Tau Beta Pi – Alabama Epsilon Chapter, Civil Engineering Faculty Advisor, 2015 - present
- University General Education Committee, College of Engineering Representative, 2013 - present
 - Gen. Ed. Subcommittee on university oral communication requirements
 - Gen. Ed. Subcommittee on University-wide Quantitative Reasoning course requirements
- University Undergraduate Curriculum Committee, 2014 - 2019
- Commencement Faculty Marshall, College of Engineering Representative, 2013 – present
- College of Engineering Faculty Affairs Committee, 2019 - present
- College of Engineering Graduate Committee, 2018 - present
- College of Engineering Scholarship Committee, 2014 – 2018
- College of Engineering Undergraduate Curriculum Committee, 2015 - 2018
- E-week Experimentation presentation “Quicksand” to Middle school visitors, 2013, 2014
- Academic advisor for 20-30 Civil Engineering students each semester, 2011 – present
- University Freshman Orientation Dinner. Civil Engineering Representative, 2012, 2013
- Fundamentals of Engineering (FE) Exam Review, College of Engineering, 2011 – 2014
- Mobile Area Science Fair, Lead Engineering Judge, 2014

External Professional Service

- ASCE Committee on Student Members, National Committee, 2018 - present
- ASCE Geo-Institute Student Participation Committee
 - Chair of the committee, 2020
 - GeoWall Student National Competition Judge, 2018 - present
 - GeoPoster Student National Competition Judge, 2013 – present
 - GeoPrediction Student National Competition Judge, 2013 – 2017
 - Chair of the Student GeoPrediction Competition, 2014 - 2017
- ASCE Geo-Institute Deep Foundations Committee

- ASCE Alabama Section Winter Meeting 2013 Speaker Organizing Committee
- ASTM Voting Member of Committee D18 on Soil and Rock, 2015 - present
- Peer reviewer, ASTM Journal of Testing and Evaluation, 2014
- Peer reviewer, ASCE Journal of Bridge Engineering, 2015 - present
- Peer reviewer, Journal of Rock Mechanics and Geotechnical Engineering, 2016
- Peer reviewer, 2017 Geotechnical Frontiers Congress, 2016 - 2017
- Peer reviewer, American Society for Engineering Education (ASEE), 2014 – present
 - Annual Conference: Construction Division, Civil Engineering Division
- Peer review, Journal of Ocean Engineering, 2012
- 2nd grade rock and soil presentations, Rockwell Elementary School, 2012 and 2013
- 5th grade rocks and minerals presentation, Rockwell Elementary School, 2014
- Spanish Fort High School Engineering Advisory Board, 2016 - present

Community Service

- “Christmas Adam” Food Project, developed and organized, 2014 - current
- Flood relief for residential houses in Baton Rouge, 2016
- MLK Day of Service, Engineering project, 2013, 2014
- Volunteer with the Mobile Family Promise Homeless shelter, Nov. 2013 - 2016
- Organized Mobile Exploreum service project, Sept. 2013
- Habitat for Humanity Projects, 2012 – present