

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

Associate Dean of Undergraduate Affairs, College of Engineering Associate Professor, Department of Civil, Coast, and Environmental Engineering University of South Alabama 150 Student Services Dr. Rm. 2111 Mobile, AL 36688 (251) 460-6140 esteward@southalabama.edu

EDUCATION

Louisiana Tech University Engineering (Geotechnical) Ph.D. 2011 Dissertation Title: A Deterministic Method of Predicting Long-Term Pile Capacity in Cohesive Soils after the Dissipation of Excess Pore Water Pressure

Louisiana Tech University Practicum Title: Civil Engineering M.S. 2011

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

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
 - o Gen. Ed. Subcommittee on university oral communication requirements
 - o 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
 - o GeoWall Student National Competition Judge, 2018 present
 - o GeoPoster Student National Competition Judge, 2013 present
 - o GeoPrediction Student National Competition Judge, 2013 2017
 - o 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