



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

Associate Dean of Undergraduate Affairs, College of Engineering  
 Associate Professor, Department of Civil, Coast, and Environmental Engineering  
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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: <i>Strength and Deformation Testing of Rigid Polyurethane Spray-on Coating under Internal Pressure</i>			
University of Colorado at Colorado Springs	Mechanical Engineering	B.S.	2003

### **PROFESSIONAL EXPERIENCE**

Registered Professional Engineer, Alabama License No. 35658, Colorado License No. 57242

5/2021 – Present	Associate Dean of Undergraduate Affairs	University of South Alabama, College of Engineering
8/2017 – Present	Associate Professor	University of South Alabama, Department of Civil, Coastal and Environmental Engineering
12/2019 – 5/2021	Department Graduate Coordinator	University of South Alabama, Department of Civil, Coastal and Environmental Engineering
8/2011 – 7/2017	Assistant Professor	University of South Alabama, Department of Civil, Coastal and Environmental Engineering
10/2013 – Present	Consultant	Critical Path Thinking, Inc.
8/2007 – 8/2011	Research Engineer	Louisiana Tech University, Trenchless Technology Center
2/2008 – 8/2011	Technical Consultant	Hach Co. / ELE International, Loveland, CO
6/2003 – 8/2007	Technical Advisor	Hach Co. / ELE International, Loveland, CO
9/1996 – 6/2003	Field Services Supervisor	CTL/Thompson, Inc. Consulting Geotechnical and Materials Engineers, Colorado Springs, CO

## **PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers (ASCE) – Associate Member

- Member of the Committee on Student Members
- Member of the Deep Foundation Technical Committee
- Past-Chair of the Student Participation Committee for the GeoInstitute

American Society of Engineering Educators (ASEE)

North American Society for Trenchless Technology (NASTT)

United States Universities Council on Geotechnical Education and Research (USUCGER)

Tau Beta Pi (TBP) – Alabama Epsilon Chapter

American Society of Testing and Materials (ASTM)

## **HONORS AND AWARDS**

### **Recipient of the College of Engineering Excellence in Teaching Award, 2020**

Awarded to one COE Faculty Member annually by the USA College of Engineering

### **Recipient of the Andy and Carol Denny Excellence in Teaching Award, 2018**

Awarded to one Faculty Member annually by the USA National Alumni Association

### **Recipient of the Barbara Shirvanian Advisor of the Year Award, 2016 – 2017**

Awarded to one student organization advisor on campus for advising ASCE

### **Recipient of the “Top Prof” Award by a student Member of the Mortar Board Society, 2015 & 2018**

### **Recipient of the PDCA Richard J. Stromness Award of Excellence, 2013**

Awarded to one person at the Professors’ Driven Pile Institute voted on by peers

### **Nominated for the College of Engineering Excellence in Teaching Award, 2012 - 2013**

### **Recipient of the Louisiana Tech University Board of Regents Fellowship, 2007 - 2011**

Awarded to a student in the College of Engineering and Science pursuing a Ph.D. providing full tuition, fees, and living funding for up to 4 years

### **Recipient of the Charles P. Lake/Rain for Rent Scholarship, 2009**

Awarded to three students per year from many universities at the NASTT No-Dig Conference

### **Recipient of Roy T. Sessums Outstanding Graduate Student Scholarship, 2008**

Awarded to one student per year in the College of Engineering and Science at Louisiana Tech University

### **Nominated to the global Danaher Corporation Talent Pool, 2005**

Nominated by the president of ELE International to develop and encourage a career develop plan to allow growth and opportunity within the Danaher Businesses.

## **RESEARCH INTERESTS**

- Scholarship and Leadership education for engineering students transferring from community colleges
- The development of predictive methods to determine the long-term bearing capacity of deep foundation elements.
- Laboratory investigation of the long-term behavior of the interaction of soil and common construction materials (ie. concrete, steel, timber, polymers, etc.).
- The short-term and long-term interactive frictional characteristics of soil and buried infrastructure.
- The development of the design criteria of the thickness of spray-on polymeric rehabilitation materials (polyurethane and polyurea) installed in pressure pipelines based on strength and deformation behavior.

## **GRADUATE STUDENTS**

### **Doctoral Dissertation**

Ana Silveira, Committee Member, (Chair – H. Lester), *Dec. 2020*  
*“Influence of Extreme Events on Power System Resilience”*

Garland Pennison, Committee Member, (Chair – B. Webb), *Dec. 2020*  
*“Predicting Coastal Road Failure using Dispersion Functions”*

### **Master’s Thesis**

Dianabel Giron Gonzalez, **Chair**, *May, 2021*  
*“Driven pile setup and LRFD Resistance Factor Calibration in Mississippi soils”*

Axel Yarahuaman, **Chair**, *May, 2020*  
*“Driven pile setup and LRFD Resistance Factor Calibration in Alabama soils”*

Jackie Whitman, Committee Member, (Chair – B. Webb), *current*  
*“Dynamic Cone Penetrometer Testing of Two Mississippi Barrier Beaches: Cat and West Ship Island”*

Aaron Weatherford, **Chair**, *May, 2019*  
*“Driven Precast Prestressed Concrete (PPC) Pile Design and Construction Optimization”*

Benjamin Pement, **Chair**, *December 2017*  
*“Analysis of the WBUZPILE Pile Driving Software Utilized by the Alabama Department of Transportation”*

Marian Busca, Committee Member, (Chair – J. Cleary), *May 2017*  
*“The effects of concrete shrinkage on the prestress losses emphasizing humidity”*

Marcus Shekouh, **Chair**, *December 2016*  
*Project title: “Laboratory determination of the time-dependent interface frictional behavior between cohesive soil and construction materials”*

Elisa Prado, **Chair**, *August 2015*  
*“Determination of LRFD resistance factors utilizing setup for driven pile design in Alabama soils”*

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 eccentric loading on the compressive strength of concrete test specimens”*

Marcus Shekouh, Summer 2013

*“Laboratory determination of the time-dependent interface frictional behavior between soil and construction materials”*

Thomas Dodd, Jr., Summer 2012

*“Preliminary Study on the Compressive Strength of Saturated Concrete Resulting from Freeze-Thaw Conditions utilizing a Super Absorbent Polymer”*

## **FUNDED RESEARCH PROJECTS**

*Linking Community College Students to Engineering*; National Science Foundation; Proj. No. DUE-1833985; Date: Sept. 2019 – Aug. 2024

Team: C. West, **Eric Steward**, T. Thomas, J. Richardson, N. Carr

***Awarded: \$1,000,000***

*Driven pile setup and LRFD in Mississippi soils*; Mississippi Department of Transportation (MDOT); Proj. No. SPR-1(98)/107167-190000; Date: Jan. 2017 – Dec. 2020

Team: **Eric Steward**

***Awarded: \$143,282***

*Driven Precast Prestressed Concrete (PPC) Pile Design and Construction Optimization*; Joint Project with University of Alabama; Alabama Department of Transportation (ALDoT) Research Bureau; Proj. # 930-929; Date: May 2017 – Feb. 2019

Team: **Eric Steward** and Sriram Aaleti (U of AL)

***Awarded: \$159,987***

*Verification of WBUZPILE Designed Methodolgy and the Development of a LRFD Driven Pile Resistance Factor Calibration for Alabama Soils*; Alabama Department of Transportation (ALDoT) Research Council; Date: July 2016 – December 2019

Team: **Eric Steward**

***Awarded: \$248,267***

*Investigation of pile setup (freeze) in Alabama: Development of a setup prediction method and implementation into LRFD driven pile design*; Alabama Department of Transportation (ALDoT) Research Council; Date: Feb. 2013 – June 2015

Team: **Eric Steward** and John Cleary

***Awarded: \$809,855***

*Standardized test method to quantify environmental impacts of stormwater pipe rehabilitation materials*; Oct. 2012 – April 2014, Virginia Department of Transportation (VDOT),

Team: Andrew Whelton (PI), Kevin White, Anne Boettcher, **Eric Steward**

***Awarded: \$146,761***

*Oyster shell strength determination: The effects of rehabilitated shells with Polydora infiltration*; Dec. 2012 – Oct. 2013, Auburn University Dauphin Island Sea Lab.

Team: **Eric Steward**

***Awarded: \$2633***

*An investigation of the time dependent increased interface frictional behavior between soil and construction materials* April 2012 – September 2013 USA Faculty Development Council Grant

Team: **Eric Steward**

***Awarded: \$7550***

*How freezing affects the compressive strength of partial saturation of SAP Concrete*

May – July 2012 USA University Council of Undergraduate Research

Team: **Eric Steward** and Thomas Dodd, Jr.

**Awarded: \$2070**

*An experimental evaluation of the effects of eccentric loading on the compressive strength of concrete test specimens* May – July 2013 USA University Council of Undergraduate Research

Team: **Eric Steward** and Raymond Buchanon, Jr.

**Awarded: \$2000**

*Dielectric characterization of soils for GPR applications*

May 15 - July 15, 2011 Funded by Underground Imaging Technologies

Team: Arun Jaganathan (PI), Neven Simicevic, and **Eric Steward**

**Awarded: \$2500**

## **REFEREED JOURNAL PUBLICATIONS**

Yarahuaman, A., **Steward, E.**, Cleary, J., *Comparing FOSM, FORM, and Monte Carlos Simulation methods for resistance factor calibration including setup for driven piles*, Deep Foundation Institute (DFI) Journal, (in preparation)

Cleary, J., Webb, B., Douglass, S., and **Steward, E.**, *Assessment of Engineering Adaptations to Extreme Events and Climate Change for a Simply Supported Interstate Bridge over a Shallow Estuary*, ASCE Journal of Bridge Engineering, Vol. 23, Iss. 12, Dec. 2018

Cleary, J., **Steward, E.**, *Analysis of Ground Vibrations Induced by Pile Driving and a Comparison of Vibration Prediction Methods*, Deep Foundation Institute (DFI) Journal, Vol. 10, Iss. 3, Feb. 2017, pp. 125-134.

Wang, Jay; Verma, Neha; and **Steward, Eric**, *Estimating Pile Set-up Using 24-h Restrike Resistance and Computed Static Capacity for PPC Piles Driven in Soft Louisiana Coastal Deposits*, Geotechnical and Geological Engineering, Vol.34, Iss. 1, Feb. 2016, pp. 267-283

**Steward, E.**, Mishra, N., Alam, S., Allouche, E., *Determination of the Design Thickness of Spray-on Polymeric Coatings used for Rehabilitation of Pressure Pipes*, Tunneling and Underground Space Technology. (Under review)

## **REFEREED SPECIAL PUBLICATIONS**

**Steward, E.** and N Haque *Evaluation of Pile Set-up Phenomenon for Driven Piles in Alabama*, Geotechnical Special Publication, (GeoCongress 2020), ASCE Geo-Institute, Minneapolis

**Steward, E.**, Jones, R., and Rausche, F. *Comparison of Axial Resistance of Driven Piles Determined using Automatic Signal Matching Software, iCAP and CAPWAP*, Geotechnical Special Publication, GSP #294, (IFCEE 2018), ASCE Geo-Institute, Orlando, FL, pp. 541-549.

Jones, R. and **Steward, E.** *Evaluation of Pile Set-up using iCAP Dynamic Restrike Software Analysis in the State of Alabama*, Geotechnical Special Publication, GSP #256, (IFCEE 2015), ASCE Geo-Institute, San Antonio, TX, pp. 980-989

**Steward, E.** and Shekouh, M. *Laboratory determination of the time-dependent interface frictional behavior between cohesive soil and construction materials*, Geotechnical Special Publication, GSP #256, (IFCEE 2015), ASCE Geo-Institute, San Antonio, TX, pp.1861-1869

**Steward, E.** *A laboratory process to determine the time-dependent increased interface frictional behavior between soil and construction materials*, GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering GSP #225, ASCE, Oakland, pp. 175-184.

**Steward, E.** and Wang, X. *Predicting Pile Setup (Freeze): A new approach considering soil aging and pore pressure dissipation*, Geo-Frontiers 2011: Advances in Geotechnical Engineering GSP #211, ASCE, Proceedings of the 2011 Geo-Frontiers Conference, Dallas, pp. 11-19.

Wang, X. and **Steward, E.** *Predictions of pile setup and its resistance factors for South Louisiana*, Deep Foundations and Geotechnical In situ Testing GSP #205, ASCE, Proceedings of the 2010 GeoShanghai International Conference, Shanghai, China, pp.129-134.

## **CONFERENCE PROCEEDING**

West, C, Carr, N., Thomas, T., Richardson, J., **Steward, E. J.** *Streamlining the path from community college to engineering degree completion*. American Society for Engineering Education (ASEE), 2021 ASEE Annual Conference and Exposition, Virtual 2021

**Steward, E. J.** and N. Haque. *Load Testing Program on Two Different Pile Types to Study Pile Setup*. The Transportation Research Board (TRB), 99<sup>th</sup> Annual Meeting, Washington D.C. 2020

**Steward, E. J.**, Cleary, J. C., Gillis, A., Jones, R., Prado, E. *Investigation of Pile Setup (Freeze) in Alabama* (vol. Research Project 930-839R). National Transportation Library of United States Department of Transportation. June 2015.

Cleary, J., Gillis, A, and **Steward, E.** *A Case Study of Ground Vibrations Due to Pile Driving in Mobile, Alabama*. 7<sup>th</sup> ASCE Forensics Congress, Miami, Nov. 2015.

Whelton, A., Tabor, M., Boettcher, A., White, K., Newman, D., **Steward, E.** *Standardized test method to quantify environmental impacts of stormwater pipe rehabilitation materials*. Technical Report for Virginia Center for Transportation Innovation and Research, VCTIR # 15-R11. November 2014.

**Steward, E.**, Allouche, E., Baumert, M. and Gordon, J. *Strength Testing of Rigid Polyurethane Spray-on Coating Under Internal Pressure*. Pipelines 2009: Infrastructures Hidden Assets, ASCE, Proceedings of the 2009 Pipelines Conference, August 2009, pp. 751-764.

Allouche, E., **Steward, E.** *Organic "High-Build" Spray-in-Place Liners – An Emerging Class of Rehabilitation Methods*, Underground Construction Magazine, June 2009, pp. 28-32

Wang, X., **Steward, E.**, Virma, N. *Estimating setup of driven piles into Louisiana clayey soils*, Technical Report for Louisiana Department of Transportation and Development, LTRC Project Number: 04-1GT, Report # FHWA/LA.09/46, November 2009

## **CONTRACTED WORKSHOPS**

**Steward, E. J.** *"ALDOT Drillers Soil Mechanics Workshop,"* Sponsored by Alabama Department of Transportation (ALDOT), State, \$8,300 (Aug. 12 - 14, 2019).

**Steward, E. J.,** McMillan, B. (Supporting), "*ALDOT Soil Mechanics Workshop*," Sponsored by Alabama Department of Transportation (ALDOT), State, \$14,000.00. (May 14, 2018 - May 18, 2018).

**Steward, E. J.** "*University of South Alabama Student Organization Leadership Workshop*," Sponsored by Tau Beta Pi, Alabama Epsilon Chapter. (April and Aug. 26, 2017, Sept. 2018, Sept. 2019, Sept. 2020).

**Steward, E. J.,** McMillan, B. (Supporting), "*ALDOT Soil Mechanics Workshop*," Sponsored by Alabama Department of Transportation (ALDOT), State, \$12,000.00. (May 16, 2016 - May 20, 2016).

### **INVITED PRESENTATIONS**

ASCE Practitioner and Faculty Advisors Workshop (PFATW), San Francisco, CA, Presenter and Organizer, Jan. 2020

ASCE Practitioner and Faculty Advisors Workshop (PFATW), Orlando, FL, Co-Host and Organizer, Feb. 2019

6<sup>th</sup> Annual Alabama ASCE Student Leadership Workshop, Auburn, AL, Feb. 11, 2017, Title: *You're an ASCE Officer, now what??*

47<sup>th</sup> Southeastern Transportation Geotechnical Engineering Conference (STGEC), Biloxi, MS, Nov. 10, 2016, Title: *Investigation of Signal Matching Software iCAP on Driven Piles in Alabama*

ASCE Mississippi Section Meeting, *Economical LRFD Driven Pile Design*, ASCE Mississippi State Section, Biloxi, MS. October 18, 2016.

Society of Women Engineers (SWE) Student Chapter Monthly Meeting, *The Importance of Community Service*, Society of Women Engineers (SWE), USA Campus. February 4, 2016.

45<sup>th</sup> Southeastern Transportation Geotechnical Engineering Conference (STGEC), Mobile, AL, Oct. 27 – 30, 2014, Title: *Evaluation of pile setup using dynamic restrike analysis in the state of Alabama*

Invited Speaker to ASCE Mississippi Gulf Coast Branch Meeting, Title: *Utilizing setup in the design of safe and economical driven piles*, Apr. 2013.

Invited Speaker to ASCE Mobile Branch Meeting, Title: *Utilizing setup in the design of safe and economical driven piles*, June 2012.

55<sup>th</sup> Annual Alabama Transportation Conference, Montgomery, AL, Feb. 24, 2012  
Title: *Predicting Pile Setup (Freeze) for Driven Pile Foundations*

### **COURSES TAUGHT**

<i>Semester</i>	<i>Course Number</i>	<i>Course Name</i>	<i>Enrollment</i>
<b>Fall 2011</b>	CE 443	Geotechnical Engineering	31
	CE 441	Geotechnical Eng. Lab (2 sections)	30
	CE 315	CE Materials Lab	20



<b>Spring 2012</b>	CE 340	Soil Mechanics	40
	CE 490/590	Infrastructure Management and Sustainability*#	35
	CE 592	Pile Foundation Design*#	1
<b>Fall 2012</b>	CE 443	Geotechnical Engineering	39
	CE 441	Geotechnical Eng. Lab (3 sections)	38
	CE 590	Advanced Geotechnical Topics*#	4
<b>Spring 2013</b>	CE 340	Soil Mechanics	35
	CE 441	Geotechnical Engineering Lab (3 sections)	36
	CE 590	Pile Foundation Design*	6
<b>Summer 2013</b>	CE 592	Pile Foundation Design*	2
<b>Fall 2013</b>	CE 443	Geotechnical Engineering	38
	EG 283	Statics	36
<b>Spring 2014</b>	CE 340	Soil Mechanics	25
	CE 341	Soil Mechanics Lab (2 sections)	24
	CE 442/542	Foundation Engineering *# (Taught at UAH & UAB)	46
<b>Fall 2014</b>	CE 443	Geotechnical Engineering	25
	CE 490/590	Management and Sustainability of Civil Infrastructure*	12
<b>Spring 2015</b>	CE 340	Soil Mechanics	38
	CE 341	Soil Mechanics Lab (2 sections)	39
	CE 442/542	Foundation Engineering* (Also taught at UAB)	16
<b>Summer 2015</b>	CE 443	Geotechnical Engineering	12
	CE 590	Advanced Geotechnical Topics*	2
	CE 591	Pile Foundation Design*	2
<b>Fall 2015</b>	CE 443	Geotechnical Engineering	21
	CE 490/590	Management and Sustainability of Civil Infrastructure*	18
<b>Spring 2016</b>	CE 340	Soil Mechanics	39
	CE 341	Soil Mechanics Lab (2 sections)	38
	CE 442/542	Foundation Engineering* (Taught at UAB)	26
<b>Fall 2016</b>	CE 443	Geotechnical Engineering	39
	CE 412/512	Management and Sustainability of Civil Infrastructure*	21
<b>Spring 2017</b>	CE 340	Soil Mechanics	38
	CE 341	Soil Mechanics Lab (2 sections)	37
	CE 442/542	Foundation Engineering*	14
<b>Summer 2017</b>	CE 443	Geotechnical Engineering	2
	CE 591	Pile Foundation Design*	2
<b>Fall 2017</b>	CE 443	Geotechnical Engineering	35
<b>Spring 2018</b>	CE 340	Soil Mechanics	36
	CE 341	Soil Mechanics Lab (2 sections)	35
	CE 490/590	Geotechnical Case Histories (Co-Taught w/ Dr. Laier)	9
<b>Fall 2018</b>	CE 443	Geotechnical Engineering	36
	CE 412/512	Management and Sustainability of Civil Infrastructure*	30
<b>Spring 2019</b>	CE 340	Soil Mechanics	71
	CE 341	Soil Mechanics Lab (4 sections)	70
	CE 442/542	Foundation Engineering*	13
<b>Fall 2019</b>	CE 443	Geotechnical Engineering	70
	CE 412/512	Management and Sustainability of Civil Infrastructure*	20
<b>Spring 2020</b>	CE 340	Soil Mechanics	42
	CE 341	Soil Mechanics Lab (2 sections)	42

	CE 442/542	Foundation Engineering*	19
<b>Fall 2020</b>	CE 443	Geotechnical Engineering	36
	CE 412/512	Management and Sustainability of Civil Infrastructure*	9

\*Indicates a Graduate Course #Indicates newly developed course

## **TRAINING, WORKSHOPS, AND EDUCATION**

Strategic Course Design Mini-Course, Innovative Learning Center, USA, (December 2020)

Geotechnical Engineering Educators Workshop, NSF Funded, Minneapolis, MN, (Feb. 24, 2020)

ASCE Civil Engineering Education Summit, Dallas, TX (May 2019)

Workshop, "2017 International Geosynthetics Society Educate the Educator about Geosynthetics", Kingston, ON, Canada. (December 2017)

Conference Attendance, "Geotechnical Frontiers 2017", Geo-Institute and Geosynthetic Materials Institute of ASCE, Orlando, FL. (March 12, 2017 – March 15, 2017).

Workshop, "2016 Civil Engineering Faculty Drilled Shaft Workshop", Association of Drilled Shaft Contractors, Chattanooga, TN. (June 2016).

Conference Attendance, "Geotechnical & Structural Engineering Congress", Geo-Institute and Structural Institute of ASCE, Phoenix, AZ. (February 14, 2016 - February 17, 2016).

Conference Attendance, "IFCEE 2015", Geo-Institute of ASCE, Atlanta, GA. (March 16, 2015 - March 22, 2015).

Workshop, "Excellence in Civil Engineering Education (**ExCEED**)", American Society of Civil Engineering (ASCE), Ft. Myers, FL. (June 22, 2014 - June 27, 2014).

Conference Attendance, "GeoCongress 2014", Geo-Institute of ASCE, Atlanta, GA. (February 23, 2014 - February 26, 2014).

Workshop, "Professor Pile Driving Institute", Pile Driving Contractors Association, Logan, UT. (June 2013).

Conference Attendance, "GeoCongress 2013", Geo-Institute of ASCE, San Diego, CA. (March 2, 2013 - March 6, 2013).

Workshop, "Geotechnical Foundation Systems Course", Georgia Institute of Technology, Atlanta, GA. (December 2012).

Workshop, "Practitioner and Faculty Advisor Workshop (**PFATW**)", American Society of Civil Engineering (ASCE), Reston, VA. (August 2012).

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
- 2<sup>nd</sup> grade rock and soil presentations, Rockwell Elementary School, 2012 and 2013
- 5<sup>th</sup> 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