Auburn University

ANNUAL REPORT FOR

AMERICAN SOCIETY OF CIVIL ENGINEERS STUDENT CHAPTER
Contact Information

238 Harbert Engineering Center
Auburn University, AL 36849

asce@eng.auburn.edu

http://www.eng.auburn.edu/organizations/ASCE/

https://www.facebook.com/Auburn.ASCE/
Student Officers

MARK MCDONNELL — PRESIDENT (2016 – 2017)
MFM0013@AUBURN.EDU – (337)-281-2641

JONATHON ROBERTS — VICE PRESIDENT
JAR0070@AUBURN.EDU – (256)-770-9839
Student Officers

ANDREW BYNUM — SECRETARY (2016 – 2017)
APB0024@AUBURN.EDU – (832)-425-6559

CHARNER BLUE – TREASURER (2016-2017)
CBB0032@AUBURN.EDU – (205)-540-1723
Student Officers

JUSTIN LOCKHART — CONCRETE CONOE CAPTAIN (2016-2017)
JDL0031@AUBURN.EDU – (706)-570-0778

AUSTIN HARMON — STEEL BRIDGE CAPTAIN
AWH0008@AUBURN.EDU – (334)-234-1109
Student Officers

ISHMAEL LEE — HISTORIAN (2016-2017)
IIL0001@AUBURN.EDU — (334)-391-4573

ROSS ELLIS — OUTCELL CHAIR (2016-2017)
JRE0010@AUBURN.EDU — (256)-656-8797
Student Officers

DAVON ELDER — SOCIAL CHAIR (2016-2017)
DZE0006@AUBURN.EDU – (334)-482-3557

BEVERLY CEASAR — PHILANTHROPY CHAIR (2016-2017)
BAC0026@AUBURN.EDU – (334)-498-0375
Student Officers

AUSTON WINGARD — CONFERENCE CHAIR (2016-2017)

GAW0015@AUBURN.EDU – (205)-240-7708

JOHN HATFIELD — RECRUITMENT CHAIR (2016-2017)

JEH0047@AUBURN.EDU – (256)-527-4698
Advisor

Dr. Justin Marshall
Associate Professor (Structural)
email: jdm0022@auburn.edu
Phone: (334) 844-7145
Financial Summary

Dues structure ($20/year, semester)

As of December 31, 2015

- Total income: $10,450.00
- Total expenditures: $6,325.00
- Cash balance: $4,124.65
- Accounts receivable: $0
- Accounts payable: $2,832.52
Chapter Objectives

“The objective of this chapter shall be to encourage the development of the professional consciousness, to give an opportunity for civil engineering students to become acquainted and to practice working together effectively. Furthermore, the chapter shall promote a spirit of mutual congeniality and provide friendly contact with the engineering profession. Also, this chapter shall encourage lifetime ASCE memberships, present a good image of civil engineering, and encourage undecided engineering students into pursue a career in civil engineering.”

- Article II: Section A of Auburn ASCE Constitution
Membership Statistics

77 Total number of members

16 Total number of ASCE National Society-level members

20% Percent of members are Society-level members (Society-level/total members)

55 Number of members with Junior and Senior status

275 Number of Juniors and Seniors eligible to join ASCE (CE declared majors)

20% Percent of eligible Juniors and Seniors that are members (Jr&Sr members / Jr&Sr eligible)
ASCE Regional Governor Visit

Guest Speaker: Melissa Wheeler M. ASCE
- Director/Chair of Region 5

Attendance – 48

Ms. Wheeler gave a presentation about her role with ASCE and how students can get involved with the national organization after graduation.
Montgomery Branch Visit

Guest Speakers: Officers of ASCE Montgomery
- Brad Williams, P.E., M.ASCE – President
- Greg Boleyn, P.E. – Vice President
- Michael Hora, P.E. – Former President
- Andrew Harry, P.E. – Scholarship Chairman

Attendance – 53

Mr. Williams and his officers gave a presentation on how the Montgomery Branch operates and also a presentation on ALDOT and ADEM.
Auburn ASCE kicked off the fall semester with a cookout to increase awareness of the organization amongst the engineering student body, and the student body at large. Our estimated attendance was about 80 students.
Auburn ASCE, through our philanthropy committee sponsored a blood drive in tandem with the American Red Cross. There were approximately 25 donors who gave, and another 25+ who want to give but did not qualify.
Auburn ASCE Gives Back!

Other Volunteering Events

- Storybook Farms
- Engineering Day
- Math Counts
Semi Annual Career Fairs

Each semester, Auburn ASCE hosts a Civil Engineering Career Fair at the Auburn University Hotel. This career fair is specifically for companies looking for civil engineering students, unlike most STEM career fairs. The average attendance is 65 – 70 students for both fairs.
Every Tuesday, Auburn ASCE hosts Career Lunch Series. Auburn ASCE invites civil engineering companies from around the southeast who are looking to recruit Auburn students. The company provides lunch for the students and they give a 30-45 minute presentation about their company. The average attendance is 50-60 students.
Leadership Development

ASCE Alabama Student Leadership Conference
- Hosted by Auburn University, 4 attending schools
- February 11th, 2017
- Guest speaker Senator Tom Whatley
Steel Bridge
Steel Bridge
Lessons at the Auburn University OutCELL: OUTdoor Civil Engineering Learning Lab

Ross Ellis
OutCELL Captain
Lessons at the Auburn University OutCELL: OUTdoor Civil Engineering Learning Lab

Scope of Project:

• Utilize Auburn OutCELL Facility built by ASCE in 2016
• Form a permanent group of Auburn OutCELL Ambassadors to manage operation of OutCELL
• Develop STEM lesson plans for K-12 student groups
• Conduct lesson plans for local K-12 students at the OutCELL

Developing Lesson Plans:

• Lessons should promote hands-on learning for STEM topics
• Special emphasis on the field of Civil Engineering
• Lessons developed to relate to several of the difference disciplines of Civil Engineering
  ➢ Erosion Control (Construction, Geotechnical)
  ➢ Newspaper Structures (Construction, Structural)
  ➢ Surveying (Construction)
  ➢ Water Filtration (Environmental)
Lessons at the Auburn University OutCELL:
OUTdoor Civil Engineering Learning Lab

Lesson Materials:

- Funding provided by OutCELL sponsors, who contributed when OutCELL was constructed
- Total materials cost to date: $47.66

Conducting Lesson Plans:

- Inaugural class was four 4th graders from Auburn Classical Academy
- Field Trips to the Auburn OutCELL consist of a tour of the eleven educational displays and lesson plans as time permits

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<th>Item</th>
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<th>Unit Cost</th>
<th>Material Cost</th>
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Lessons at the Auburn University OutCELL:
OUTdoor Civil Engineering Learning Lab

Student Contribution:

- OutCELL has two permanent faculty advisors and two co-captains
- 2017 Service Activity Team consisted of one faculty advisor, two graduate students, and four undergraduate students
- The Service Activity team contributed a cumulative 68 hours for a total value of $1,700 at $25 per hour

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<th>Date</th>
<th>Reason</th>
<th>Ross Ellis</th>
<th>Brian Faulkner</th>
<th>Sarah Gustitus</th>
<th>Austin Harmon</th>
<th>Michelle Knights</th>
<th>Susan Wu</th>
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Community Impact:

- The Lessons at the Auburn OutCELL will be a permanent institution in the Auburn community
- STEM and Civil Engineering educational resources will be available to the public in perpetuity
Lessons at the Auburn University OutCELL:
OUTdoor Civil Engineering Learning Lab
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The Chewacla Bridge Project

Our Goals:

- The goals of the project was to improve the overall experience of the state park and increase activity at the park. The Auburn ASCE Chapter Philanthropy Sector chose this project because it our goal to find ways to give back to our local community and aid in improving it for long-term. We also asked the community who were interested in this project to see what they would like.
The Chewacla Bridge Project (cont.)

Project impact:

- The overall goal of the project is for a bridge to be built at Chewacla State Park that will allow everyone ease of passage over the creek. It is no secret that the waterfall is a main attraction at the park, but unfortunately everyone is not able to enjoy it the same way. There are no short term goals with this project as it will be designed to stand the test of time and overall aid improving our community for long-term.
The Chewacla Bridge Project (cont.)

Participation:

- **Number of students and percent of total membership that worked on the project:** 7 total students @ approx. 10% of total membership
- **Number of faculty and practitioners:** 2 Faculty and 2 Practitioners
- **Total person-hours spent on the project:** 125 hrs
Summary and Questions

Our biggest challenge was trying to encourage student involvement and making aware of our community what civil engineering can really do for everyone.

Through our volunteering events, projects, social events and career events, Auburn ASCE has made an impact in the city and the school!