

Auburn University

ANNUAL REPORT FOR

AMERICAN SOCIETY OF CIVIL ENGINEERS STUDENT CHAPTER

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Advisor



Dr. Justin Marshall

Associate Professor (Structural)

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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

<u>16 Total number of ASCE National Society-level members</u>

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

55 Number of members with Junior and Senior status

<u>275 Number of Juniors and Seniors eligible to join ASCE (CE declared majors)</u>

<u>20% Percent</u> 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 involve 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 aa presentation on ALDOT and ADEM

Recruitment Cookout



Auburn ASCE kicked of 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 Gives Back!



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.

Career Lunch Series



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



OUTdoor Civil Engineering Learning Lab



Ross Ellis

OutCELL Captain

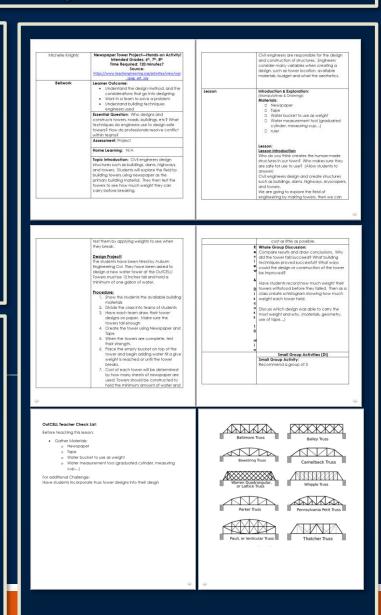
OUTdoor Civil Engineering Learning Lab

Scope of Project:

- Utilize Auburn OutCELL Facility built by ASCE in 2016
- Form a permanent group pf 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)



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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Item	Number	Unit Cos	st	Material C	Cost	Purpose
Sponges 8 pack	2	\$ 1	.50	\$	3.00	Erosion Control Lesson
Masking tape 4 pack	1	\$ 4	.99	\$	4.99	Newspaper structures Lesson
Duct tape	2	\$ 3	.50	\$	7.00	Newspaper structures Lesson
Baking pan	6	\$ 1	.29	\$	7.74	Erosion control lesson
Wood shims	1	\$ 1	.62	\$	1.62	Erosion control lesson
Decorative wood mold	2	\$ 1	.35	\$	2.70	Erosion Control Lesson
Play sand 50 lb	1	\$ 4	.20	\$	4.20	Erosion control/water filter lesson
5 gallon bucket	1	\$ 2	.98	\$	2.98	Newspaper structures lesson
0.5 cu-ft drainage rock	1	\$ 3	.58	\$	3.58	Water filter lesson
Glitter	1	\$ 1	.50	\$	1.50	Water filter lesson
Crafts pom poms	1	\$ 1	.00	\$	1.00	Water filter lesson
Gum drops	2	\$ 1	.00	\$	2.00	Newspaper structures Lesson
Coffee filters 150 ct	1	\$ 1	.35	\$	1.35	Water filter lesson
Transparent tape	2	\$ 1	.00	\$	2.00	Newspaper structures Lesson
Plastic spoons	1	\$ 1	.00	\$	1.00	Erosion Control Lesson
Toothpicks	1	\$ 1	.00	\$	1.00	Erosion Control Lesson
		Total Co	ost	\$	47.66	





OUTdoor Civil Engineering Learning Lab

Student Contribution:

- OutCELL has two permament faculty advisors and two co-captains
- 2017 Service Activity Team consistsed 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

Date	Reason	Ross Ellis	Brian Faulkner	Sarah Gustitus	Austin Harmon	Michelle Knights	Susan Wu
10/20/2016	Recruiting	1	1	1	1	1	1
10/26/2016	Lesson plan brainstorm	1.5	1.5	1.5	1.5	1.5	1.5
11/1/2016	Developing lesson plans	1.5	1.5	1.5	1.5	1.5	1.5
11/8/2016	Review lesson plans	1.5	1.5	1.5	1.5	1.5	1.5
1/28/2017	Materials purchasing	1					
1/30/2017	Materials purchasing	1					
1/31/2017	Test lesson plans	1.5	1.5	1.5		1.5	
2/8/2017	Materials purchasing	1					
2/28/2017	Plan OutCELL tour	2	2			2	
3/5/2017	Final briefing	2	2	2		2	
3/6/2017	Inaugural class	3		3	3	3	
	Total Hours	68					
	Total Value	\$ 1,700.00					

Community Impact:

- The Lessons at the Auburn OutCELL will be a permanent intitution in the Auburn community
- STEM and Civil Engineering educational resources will be available to the public in perpetuity











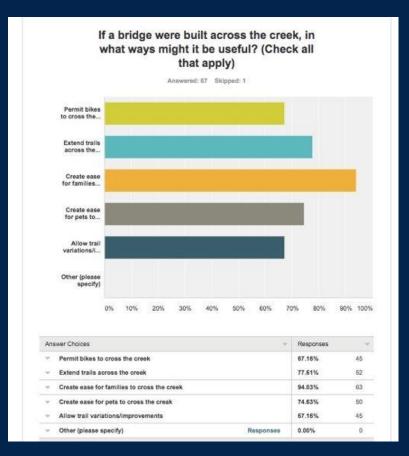


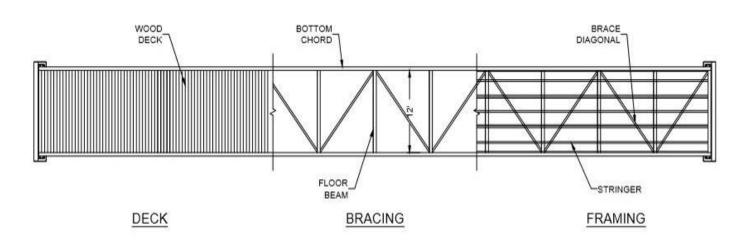


The Chewacla Bridge Project

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.





BRIDGE PLAN

The graptics information and details coxtanged in these plans is schematic in nature. The plans, elevations and sections have been developed automatically in a way that demonstrates your current input in a relative and proportional manner. The details included in these plans have been selected to represent commonly built construction assembles. These are not fing neering drawings, and as such, the details may very in the final design for your project depanding on many vertations that are selected in your final scope of work and specifications.

CONTINENTAL* DYOB*

Connector® 110' Span x 12' Width Chewacla State Park Pedestrian Bridge Pedestrian Bridge Auburn, Alabama

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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
- <u>Total person-hours spent on the project:</u> 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!