

THE UNIVERSITY OF FLORIDA

Annual Report for the American Society of Civil Engineers Student Chapter



CONTACT INFORMATION

Mailing address:

UF ASCE Chapter, PO Box 116580, University of Florida,
Gainesville, FL 32611

Email Addresses:

Primary: asce@ce.ufl.edu

Concrete Canoe: ufcc2016@gmail.com

Steel Bridge: ufasce.steelbridge@gmail.com

Social Media:

Website: www.gatorasce.com

Facebook: <https://www.facebook.com/ufasce>

Instagram: www.instagram.com/ufasce

STUDENT OFFICERS SPRING 2017



President

Chris Verzillo

chrisverzillo@ufl.edu



**Vice President of
External Affairs**

Will Stahovec

wstahovec@ufl.edu



**Vice President of
Internal Affairs**

Nicole Bohaczyk

nbohaczyk@ufl.edu



Treasurer

Ryan Casburn

ryancasburn@ufl.edu

STUDENT OFFICERS SPRING 2017



Secretary

Justin Dutreil

jdutreil@ufl.edu



Historian

Emily Starkey

emstarkey@ufl.edu



STUDENT OFFICERS FALL 2017



President

Allison Dykes

allisondykes@ufl.edu



**Vice President of
External Affairs**

Christine Pu

cpu707@ufl.edu



**Vice President of
Internal Affairs**

Shannon Scolforo

sscolforo@ufl.edu



Treasurer

Ryan Casburn

ryancasburn@ufl.edu

STUDENT OFFICERS FALL 2017



Secretary

Richard Brown

brownr4@ufl.edu



Historian

Emily Starkey

emstarkey@ufl.edu



ADVISORS

FACULTY
ADVISOR



Mark Newman, Ph.D., P.E.
markn@ufl.edu

PRACTITIONER
ADVISOR



Rachel Haeseler, P.E.
haeselerra@gru.com

PRACTITIONER
ADVISOR



Keith Butts, P.E.
kbutts@uesorl.com

FINANCIAL SUMMARY

Dues

\$20 One Time Membership Fee

As of December 31, 2017

Total Income	\$41,819
Total Expenditures	\$46,381
Cash Balance	\$4,562
Accounts Receivable	0
Accounts Payable	0

GOALS AND OBJECTIVES



"Our mission is to utilize the engineering knowledge gained in the classroom to promote a spirit of healthy competition, life-long friendships, community involvement, and professional development.

In doing so, we expand technical skills, professionalism, and relationships to enhance our futures as Gator Engineers."

GOALS AND OBJECTIVES

- *Goal 1:* Create an online database of active members in the Student Chapter.
- *Goal 2:* Achieve 75% national membership within our student members.
- *Goal 3:* Increase leadership and professional development.
- *Goal 4:* Have 20% of our student chapter involved in Foundation Families.
- *Goal 5:* Increase participation with the Gainesville local branch.
- *Goal 6:* Prepare to host the 2018 ASCE Southeast Student Conference.
- *Goal 7:* Have 25 new members involved in a design team or mini competition.

GOAL 1: CREATE AN ONLINE DATABASE OF ACTIVE MEMBERS IN OUR STUDENT CHAPTER

A unique aspect about our organization is the number of members we have, topping off at 330 at the end of 2017. Due to these large numbers, it's difficult to keep track of who is actively participating in ASCE events. Our officers worked on creating and implementing a Membership Database in order to track involvement. This database helps organize the student chapter while benefitting our members with discounts and first priority access to field trips and professional events.

Action Plan

- Design a membership card for active members to use to sign into events and for discounts in our office.
- Use our current database to reach out to members through e-mail reminders and social media sites to sign-up for the cards.
- Those who receive their cards, transfer their information over to our new Membership Database.
- Have 80 members (our General Body Meeting average attendance) transferred to new database.

Assessment

- Membership cards went into effect November 1st.
- 90 members received their cards, 12.5% more than our goal.

Follow-Up Plans

- This is still a new system so we plan on continuing to emphasize the importance of having a membership card through announcements at future General Body Meetings, through e-mail reminders, and on our social media.



GOAL 2: ACHIEVE 75% NATIONAL MEMBERSHIP WITHIN OUR STUDENT MEMBERS

Our Student Chapter emphasizes not only the importance of ASCE here at the University of Florida, but the importance of ASCE as a national organization. We strive to get our members to be sure to register as a national member and to continue involvement after graduation.

Action Plan

- Have 75% of our student members registered as national members.
- Require a national membership in order to receive a membership card.
- Emphasize registration when new students come to register as a student member.
- Send reminders with instructions on how to register via e-mail and through our social media sites.

Assessment

- Out of 330 members, 175 are registered as national members. This is 22% fewer than our goal.

Follow-Up Plans

- We hope that by making it a requirement to obtain a membership card, it will encourage more student members to register.
- Continue to send reminders.

GOAL 3: INCREASE LEADERSHIP AND PROFESSIONAL DEVELOPMENT

We believe in giving our members the opportunities to develop as both a professional and a leader. By doing so, we prepare our members to be the best engineer they could be.

Action Plan

- Put on one resume workshop a semester.
- Introduce an organization chart and SMART goals to our executive board.
- Hold 7 leadership presentations at our executive board meetings.



Follow-Up Plans

- We plan to continue to implement the organization chart and SMART goals to our executive board.
- Continue to host resume workshops with mock interviews for our student members.
- Hold leadership presentations for our executive board.

Assessment

- A resume workshop was put on both Spring semester (1/17) and Fall semester (9/25).
- 7 presentations on leadership were given in our Executive Board Meetings throughout the year.
- An organization chart was introduced to show which officers were responsible for which executive members.
- SMART goals were introduced in the beginning of each semester to the executive members.



GOAL 4: HAVE 20% OF OUR STUDENT CHAPTER INVOLVED IN FOUNDATION FAMILIES

Foundation Families is our student chapters mentor/mentee program that was created Fall 2016. This program was established to help create a more friendly atmosphere and increase underclassman participation. We hope through increased membership in our program, participation within the chapter will increase.

Action Plan

- Encourage current members and new members to join Foundation Families at our General Body Meetings by explaining what it is and the benefits of joining.
- Announce on social media sites and at recruitment events.

Assessment

- At the beginning of Spring 2017, 42 members were a part of Foundation Families. By the end of the 2017 year, 77 members were a part of Foundation Families. That's 11 members above our goal.

Follow-Up Plans

- Continue to encourage members to join through General Body Meeting, ASCE presentations, and social media sites.



GOAL 5: INCREASE PARTICIPATION WITH THE LOCAL ASCE GAINESVILLE BRANCH

This year, we wanted to go beyond attending the ASCE Gainesville Branch Meetings. We hoped to reach out and interact with the branch more in order for the local branch chapter and our student chapter to get closer.

Action Plan

- Host a joint branch meeting.
- Have the local ASCE Gainesville Branch President attend an Executive Board Meeting.

Assessment

- Our chapter attended two branch socials. The first one, a tour with the branch and AWWA of the Sweetwater Wetlands Park. The second, a Trivia Night hosted at World of Beer.
- The ASCE Gainesville President in Spring 2017 attended an Executive Board Meeting.
- We hosted a branch meeting at Blue Grill on 11/2 with 11 ASCE student members and 18 professionals.

Follow-Up Plans

- Increase attendance at the ASCE Gainesville Branch Meetings by reaching out to more student members.
- Continue to invite the branch president and professionals interested to our Executive Board Meetings and our General Body Meetings.



GOAL 6: CONFERENCE GOALS

Once our student chapter found out it was hosting conference for 2018, all hands were on deck. There was a lot of work to do and little time to finish it. Our goal by the end of the 2017 year was to be on the track to host the best conference we can.

Action Plan

- Establish a conference committee.
- Set a sponsorship packet and begin fundraising for our final goal of \$80,000
- Get a final head count for schools attending and send out two Mailers with information about schedules and locations.

Assessment

- We hired a UF Conference Department to help book venues and work with the University.
- A conference committee was established to handle internal affairs, external affairs, and design competitions. The internal team works on food, logistics, and themes. The external team works with the Conference Department Planner to book venues. The design team developed, tested, and finalized the 11 different design competitions.
- 27 schools registered. Both Mailers sent on time.
- \$25,000 has been raised so far.

Follow-Up Plans

- Get Judges for all competitions.
- Finalize parking and logistics for each of the conference days.
- Continue fundraising by following up with previously contacted companies as well as attending Board of Director Meetings and reaching out to ASCE national members.

GOAL 7: HAVE 25 NEW MEMBERS INVOLVED IN A DESIGN TEAM OR MINI COMPETITION FOR CONFERENCE

Conference is a great way for our members to embrace their competitive side and make some unforgettable memories. We want our new members to get involved and get hands on experience through our mini competition teams and design teams so they can get a chance to be a part of Conference.

Action Plan

- Announce at General Body Meetings what conference is and what you do on our design teams.
- Have Steel Bridge and Concrete Canoe go to recruiting events.
- Have introduction meetings for each design team for those interested in getting involved.

Assessment

- 10 new members involved in Steel Bridge.
- 27 new members involved in Concrete Canoe.
- 18 new members involved in a Mini Competition

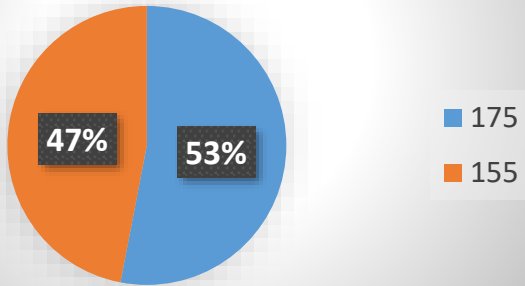
Follow-Up Plans

- Continue presentations on conference and our design teams.
- Be sure Steel Bridge and Concrete Canoe attend recruitment events.
- Hold welcome meetings for students to be able to interact with the captains one on one.

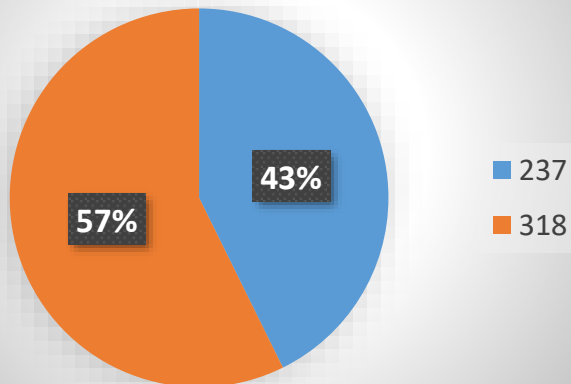


MEMBERSHIP STATISTICS

ASCE National
Members



Juniors and Seniors



- 330 members.
- 175 ASCE National Society-level members.
- 53% of members are Society-level members (Society-level/total members).
- 237 members with Junior and Senior status.
- 555 Juniors and Seniors eligible to join ASCE (CE declared majors).
- 43% of eligible Juniors and Seniors that are members (Jr&Sr members / Jr&Sr eligible).

MEETING STATISTICS



- 14 professional meetings with an invited speaker.
- 13 meetings with student presentations and/or paper(s) presented.
- 4 professional licensure meetings and/or ethics topics presented.
- 3 field trips.
- 61 social functions.

1ST GENERAL BODY MEETING SPRING

January 11th
106 students

We began with an introduction into ASCE where we discussed what the national organization does and what we do as a student chapter. Students broke out into groups to play a quick Icebreaker. After, our executive board announced events coming up in the Spring semester such as community service events, socials, and professional development events. Our Concrete Canoe and Steel Bridge teams talked about what their design teams are and updates on their progress. We ended the meeting with a special presentation given by Peter Moore from Chen Moore and Associates.



Students broke out into groups at the beginning of the meeting for our Icebreaker. They had to take a letter from their first names and arrange it to make a word. The team with the longest word won!

1ST GENERAL BODY MEETING FALL

August 30th
140 students



The first general body meeting of the Fall semester is always one of our chapters most exciting because of the beginning of the school year. We began the meeting with a rock-paper-scissors tournament. After, the president announced what ASCE is at both the national level and student level. Executive board members then made announcements about what to expect from our chapter coming Fall semester such as professional development events, involvement with our mentor/mentee program, and community service events. We ended with a presentation by Arcadis. It was a great way to start off the new school year!

3RD GENERAL BODY MEETING SPRING

November 27th
83 students

The meeting began with an Icebreaker where a giant beach ball was thrown around the room and whichever student caught the ball had to tell a fun fact about themselves. Our Concrete Canoe and Steel Bridge teams made announcements on how to get involved. Executive board members talked about community service events, intramural sports, and how to get involved in conference. We ended our meeting with a presentation by BCC where students got a chance to learn about how to build their resume and interview skills.



STUDENT CONFERENCE

2017 ASCE Southeast Student Conference
Florida Atlantic University
March 16th-18th
Total 57 Students

Results

- 3rd Ladder Golf
- 1st CC Design Paper
- 1st CC Design Presentation
- 3rd CC Best Final Product
- 1st CC Womens Endurance
- 1st CC Mens Endurance
- 1st CC Womens Sprint
- 1st CC Co-ed sprint
- 1st Overall Canoe
- 1st SB Fastest Time
- 2nd SB Construction
- 1st SB Efficiency
- 1st SB Lightweight
- 1st SB Overall
- 2nd Service Activity
- 3rd Surveying



STUDENT CONFERENCE

1st Place Overall
Go Gators!



WORKSHOP FOR STUDENT CHAPTER LEADERS

Newark, New Jersey
January 20th and 21st
2 Students



ASCE FLORIDA SECTION CONFERENCE

Hilton in Orlando, Florida
June 20th to June 22nd
7 Students Attended
1 Practitioner Advisor
1 Faculty



Our chapter brought the girl power to the Florida Section Conference!



2 Awards were given to our members for Outstanding Student Service and Graduate Student of the Year.

BRYAN D. SPANGLER LECTURE



Arredonde Café Gainesville, Florida

April 5th

34 Students

1 Faculty

1 Faculty Advisor

1 Practitioner Advisor

5 Professionals

We had special guest speaker, ASCE President-Elect Kristina L. Swallow, present on the future of our field and the importance of continuing to further your education

CONCRETE CANOE NATIONAL CONFERENCE

Colorado School of Mines

June 17th to June 19th

14 Students

1 Faculty



Results:

- 2nd Overall
- 3rd Oral Presentation
- 1st Final Product
- 2nd Mens Endurance
- 3rd Womens Endurance
- 4th Mens Sprint
- 4th Womens Sprint
- 1st Co-Ed

STEEL BRIDGE NATIONAL CONFERENCE

Oregon State University
May 26th to May 27th
9 Students



Results
Disqualified

SPECIAL PROJECT: BARR HAMMOCK BRIDGE

Barr Hammock Preserve
February 4th
11 students
80 man hours

The Barr Hammock Preserve encompasses over 5700 acres of the Levy Prairie. ASCE has had the pleasure of working with Kevin Ratkus of the Alachua County Parks & Conservation Lands Department for the past year on the Levy Loop Trail. We've been able to help build the Bar Hammock Bridge that runs across a small creek to help attach two stretches of the trail. The construction of the bridge was finished February 4th. We were able to attend the Barr Hammock Preserve Ribbon Cutting Ceremony on June 17th and got the chance to see the bridge being used on the trail!



This project including working with the Alachua County Parks & Conservations Land Department. We helped with the construction of the bridge by laying down plywood and steel reinforcement, mixing and placing concrete, and installing intricately designed guardrails.



SPECIAL PROJECT: ENERGY WHIZ EXPO

Gainesville Raceway
April 8th

13 students and 1 Faculty
75 man hours

ASCE helped to set up and take down the competitions held at the Expo. We held a booth where students could see a model representation of a green building and learn ways to be sustainable in their own homes. After, we helped judge the Junior Solar Sprint and Solar Cook-Off. The students blew us away with their designs!



The Energy Whiz Expo is an annual event held by local Gainesville teachers and volunteers. Students from grades 4 to 12 compete in difference competitions to show off their scientific skills! The three competitions were:

1. Critter Cottage where teams of 2 to 6 students designed and built a pet home, or "cottage," to provide maximum comfort for their critter while being as energy and recourse efficient as possible.
2. Junior Solar Sprint where teams of 2 to 4 students designed and built a solar powered race car. Cars were judged on design, innovation and performance. The cars were displayed to show the creativeness of the teams and the competition ended with an intense finale where the cars were put to the test in a 20 meter race!
3. Solar Cook-Off where teams of 2 to 6 students designed and built a functional solar cooker and chose a dish to make with their cooker.



SPECIAL PROJECT: ENGINEERING WEEK

Reitz Union
February 21st to the 22nd
17 students
136 man hours

The Engineering and Science Fair is a part of the University of Florida's Engineers' Week hosted by the Benton Engineering Council through the College of Engineering. This two day event brings in students in grades K-12 and exposes them to opportunities of a career in the STEM fields. The first day caters to High School students and the second day caters to Elementary and Middle School students.



ASCE had the opportunity to bring our knowledge of the field of Civil Engineering to the fair. We held a booth where we'd have students come up and we'd tell them about how incredible civil engineering is. They had a multitude of interactive stations at our table they could go to. One station had our steel bridge displayed where they could learn about the importance of strength, weight, and efficiency of bridges. At our second station, students broke out into groups to create their very own structure using clay and popsicles sticks. Once they were finished, the structure was placed on an earthquake simulator made with cardboard and tennis balls. If their structure passed the earthquake test, the team won a prize! Our final station had concrete cylinders made by our concrete canoe team and were able to put our mix designs to the test by submerging the cylinders in a bucket of water.



SPECIAL PROJECT: GIRL SCOUT MERIT BADGE DAY

Weil Hall

November 4th

23 students

4 Faculty

1 Faculty Advisor

144 man hours

According to NSF (Science and Engineering Indicators 2016) only 17.5% of civil and architectural engineers are women. The University of Florida strived to utilize resources available to combat this issue. Girl Scouts is known for their dedication and program efforts to expose young girls to STEM by offering national badges for Innovation, Science, and Technology. By combining the wealth of knowledge and resources at the University of Florida and Girl Scouts of America's efforts to promote STEM in young girls, the University of Florida's ASCE Student Chapter brought to life an interactive badge workshop to introduce girls to civil engineering.

The Girl Scout Merit Badge Day is an event held by our ASCE student chapter in which we invite local girl scout troops to Weil Hall at the University of Florida to learn about civil engineering. The girl scout troops were broken up into groups where they attended lectures on different aspects of civil engineering held by our own faculty and graduate students such as geotechnical, transportation, structures, water and wastewater, and water resources engineering. After the sessions, the girls had a lunch break. They were then brought down to our soils engineering lab where their knowledge was put to the test. The groups were given project instructions in which they had to build their very own town. The focal point of this town was a structure they had to build using popsicle sticks, tape, and glue. They were exposed to three types of soil and had to choose which to use as the foundation for their structure. They also had to include a road with four lanes total that ran through their town. Three volunteer judges went around to grade the groups on their foundation choice, the strength to weight ratio of their structure, and the creativity of their town. We're not sure who had more fun at the event, the girl scout troops or our volunteers!



SPECIAL PROJECT: GIRL SCOUT MERIT BADGE DAY



The girl scouts learned about geotechnical, transportation, structural, water and wastewater, and water resources engineering from our very own professors and graduate students.

The girl scouts build their very own town and building structure using the knowledge they had learned.



FIELD TRIP: HERBERT WERTHEIM ENGINEERING LABORATORY

November 3rd
17 attendees



ASCE student members had a chance to tour the construction site of the new Herbert Wertheim Engineering Laboratory. The tour was led by Whiting-Turner. Our members were able to learn about the utility expansions of the project, problems that arise when excavating, and how those problems are managed.

FIELD TRIP: MURPHREE WATER TREATMENT PLANT

November 16th
15 students

ASCE students were able to tour the Murphree Water Treatment Plant on November 16th. 15 students had a chance to learn about the water treatment plant that treats and supplies all of Gainesville.



After the tour, our members had a little fun posing for pictures!



FIELD TRIP: CELEBRATION POINT

November 28th
30 students

ASCE partnered with students from the Rinker School of Construction Management to tour the construction site at Celebration Pointe. Students were shown around by Project Managers and Superintendents from Hoar Construction where they learned about the residential complexes, hotels, restaurants, and theaters going into the area.



SOCIAL FUNCTION: GET AIR GAINESVILLE



February 12th
19 students

Members took a break from school and studying to get some air at Get Air Gainesville, our local indoor trampoline center!



SOCIAL FUNCTION: FOUNDATION FAMILIES FIELD DAY

February 11th
38 students

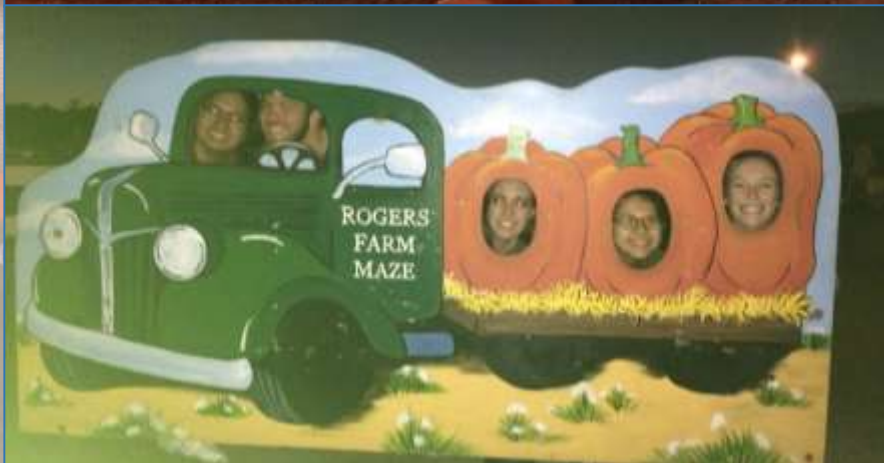


On February 11th, 38 members from our mentee/mentor program, Foundation Families, got a chance to go outside and compete against each other in our Foundation Families Field Day event. We got to soak up the sun and have some fun!



SOCIAL FUNCTION: ROGER'S FARM HAUNTED CORN MAZE

October 12th
11 students



Our members got into the Halloween spirit! Both ASCE and ITE went to Roger's Farm where they got to go through a pumpkin patch, jump on some trampolines, and make their way through a haunted corn maze! There were plenty of laughs and screams along the way.

SOCIAL FUNCTION: END OF THE YEAR BANQUET

April 20th

40 students

1 Faculty

1 Practitioner Advisor

3 Professional



ASCE held a special End of the Year Banquet for our members. Students came out to Depot Park where food was served and superlatives were given out for Best Smile, Biggest Spirit, Most Hard Working, and so many more! It was a wonderful way to celebrate the end of the school year!



SUMMARY AND QUESTIONS

Significant Moments

- Over 106 students attend our first General Body Meeting.
- Our student chapter placed 1st Overall at the ASCE Southeast Student Conference.
- The annual Bryan. D. Spangler Lecture with special guest speaker Kristina L. Swallow had an attendance of 42 people.
- We ended the 2017 school year with an End of the Year Banquet.
- Fall began with a great start of 140 students at our first General Body Meeting.
- Members got a chance to tour the Herbert Wertheim Engineering Lab, the Murphree Water Treatment Plant, and the Celebration Pointe complex.
- Our chapter hosted a Gainesville Branch Meeting.
- We ended our year with an Ugly Sweater themed holiday social.

Challenges Faced

- Retaining large numbers at our General Body Meeting.
- Having more of our members registered as national ASCE members.
- Involving our local ASCE branch in more student chapter events.
- Organizing our large membership database and keeping track of how many members are actively involved.

SUMMARY AND QUESTIONS

Thank you for an incredible year! Questions?

