

UNIVERSITY OF FLORIDA

Annual Report for
American Society of Civil Engineers
Student Chapter





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1st Vice President



Daniel Torre
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2nd Vice President



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Secretary



Molly Behan
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Treasurer



Jordan Dawley
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Historian



Krystal Somerville
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Student Officers Spring 2016

Exec at Large



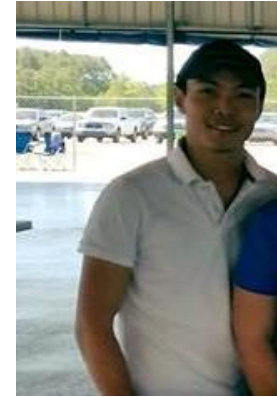
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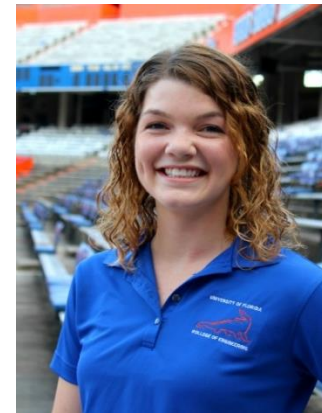
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Intramurals



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Student Officers Spring 2016

Food and Banquet



Kara Kile

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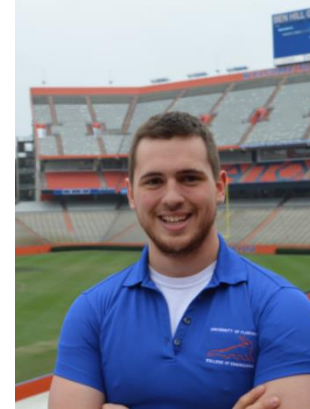
Marketing



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Conference



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Secretary



Allison Dykes

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Student Officers Fall 2016

President



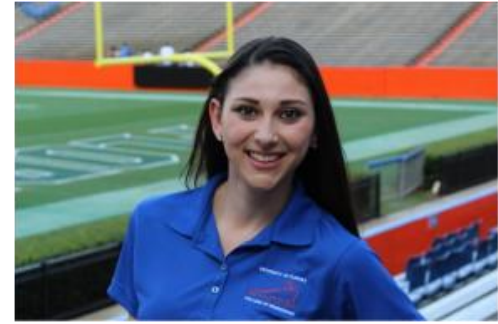
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Student Officers Fall 2016

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Practitioner 2



Keith Butts, P.E.
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Financial Summary

Dues

\$20 One Time Membership Fee

As of December 31, 2016

Total Income	\$30,439.05
Total Expenditures	\$29,005.57
Cash Balance	\$1,433.48
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

Remain a financially self-reliant organization.

Goal 2

Improve connectivity with the local Gainesville Branch.

Goal 3

Place first in the 2016 Southeast Regional Student Conference.

Goal 4

Increase membership activity within the club.



Goal 1

Remain a financially self-reliant organization.

Action Plan

- Create E-Board positions to ensure efficiency and effectiveness in our chapters fundraising.
- Increase number of financial meetings with the President, Treasurer, Treasurer-Elect, Conference Chairs, and Design Team Captains.
- Keep a more detailed record of inventory sales.

Assessment and Outcomes

- Establish a Concessions Chair and Merchandise Chair.
- Number of financial meetings increased from 2 meetings during the Fall semester to 4 financial meetings during the Spring semester.
- All sales receipts on the cash register were recorded digitally.

Follow-up plan for the future

- Hold 4 financial meetings per semester.
- Continue the switch to fully digital sale copies.



Goal 1

Concessions is not only a way to help fundraise for the club, it's a great way to bond and make friends!





Goal 2

Improve connectivity with the local Gainesville Branch.

Action Plan

- Incorporate the Gainesville Branch more into ASCE events..

Assessment and Outcomes

- Have members attend the monthly Gainesville Branch Meetings.
- The president of the Gainesville Branch attended and participated as a judge in the ASCE Special Projects event in Fall 2016.
- ASCE hosted a “Resume Critique” event where professionals from the Gainesville Branch conducted mock interviews, critiqued resumes, and gave advice to ASCE members.

Follow-up plan for the future

- Continue inviting the president and other members of the Gainesville Branch to student chapter events.
- Expand upon the “Resume Critique” event to open it up to any civil engineers and to increase the number of professionals.



Goal 2



Our resume critique was a huge success! We had 5 professionals from the Gainesville Branch present and over 40 students participate.



Goal 3

Place first in the 2016 Southeast Regional Student Conference

Action Plan

- Create a more intensive selection process when choosing conference teams.
- Improve fundraising efforts through concessions.
- Set up more pre-planning periods for teams and periodic check in's to keep track of progress.

Assessment and Outcomes

- Team sign-up sheets were distributed during General Body Meetings and interviews were conducted for captains to ensure the captains of the conference teams were experienced.
- Monthly meetings were held with advisors, officers, and design captains to discuss finances and any issues that may arise. Fundraising packets were distributed and phone calls were made to receive donations.
- Teams were created in November in order to give them plenty of time to research and plan. Conference chairs checked in on team progress by hosting a captain grill-out social in January where captains discussed their progress and what they intend to continue to do till conference.
- Overall, the University of Florida ASCE Student Chapter placed 3rd in the Southeastern Regional Student Conference.

Follow-up plan for the future

- Plan early and have a more intensive follow-up with both captains and team members.
- Work to place 1st for the 2017 Southeastern Regional Student Conference.



Goal 4

Increase membership activity within the club

Action Plan

- Construct a mentor/mentee program to help newer members navigate through college and increase membership attendance at events.
- Increase attendance at community service events through marketing and social media.

Assessment and Outcomes

- Foundation Families was created as the chapter's very first mentorship program. ASCE members with a minimum of a third-year classification were paired with younger members and put into "families" in order to create a better sense of community within the club. The "families" were all named after influential Civil Engineers from the University of Florida and a point system was devised to encourage mentors and mentees in the same family to get together at both ASCE events and outside of the club. The family with the most points at the end of the year wins the Foundation Families trophy. A total of 43 members were added to the program.
- To push for more involvement in ASCE, members were strongly encouraged to participate in community service events. It is required to attend at least one community service event if a member desires to attend the regional conference, but this year members were encouraged to go above and beyond the typical one community service event. Community service involvement grew from 86 members participating to 98, increasing 13.9%.
- The University of Florida ASCE Student Chapter was awarded the 2016 Florida Section ASCE Scholarship and the Kathy J. Caldwell, P.E. ASCE Florida Section Student Chapter of the Year.

Follow-up plan for the future

- Promote and build Foundation Families and help solidify the program into the chapter.
- Continue to have a strong social media presence and push to promote ASCE events.



Goal 4



Go Bloomquist Family!

Foundation Families has created another way for new members to be more involved and receive advice from seasoned members.





Goal 4



Members attend the Rebuilding Together community service event.

Fundraisers were held at restaurants where members could eat and socialize. A certain percentage of the proceeds were donated to the charity of choice.





Goal 4



Our chapter is honored to have received the 2016 Kathy J. Caldwell, P.E. ASCE Florida Section Student Chapter of the Year!



Membership Statistics

- Total Number of members – **265**
- Total Number of ASCE National Society-level members – **199**
- Percent of members are Society-level members – **75%**





Membership Statistics



- Number of members with Junior and Senior Status – **203**
- Number of Juniors and Seniors eligible to join ASCE - **415**
- Percent of eligible Junior and Seniors that are members – **48.9%**



Meeting Statistics

- Number of professional meetings with an invited speaker - 13
- Number of meetings with student presentations and/or paper(s) presented - 3
- Number of professional licensure meetings and/or ethics topics presented - 1
- Number of field trips - 3
- Number of social functions - 38



1/13/16 General Body Meeting

- 1/13/16
- 95 Civil Engineering students present.
- 69 current ASCE members.
- UF ASCE president, Nick Bauer, presented on “What is ASCE?” and addressed community service/special projects, upcoming games in intramural sports, reminder for conference dues followed by presentations from Concrete Canoe and Steel Bridge.
- The guest speaker, Jeff Arms of HDR, Inc., spoke of the I-4 Ultimate Project and Regional Planning, followed by research and internship opportunities for interested students.



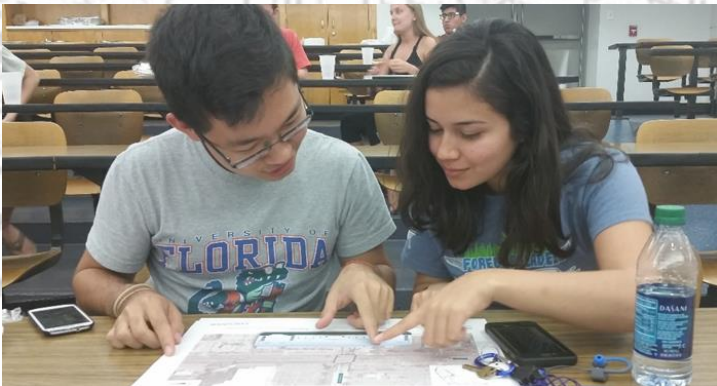
1/13/16 General Body Meeting





2/03/16 General Body Meeting

- 2/03/16
- 2nd Spring 2016 meeting.
- 71 Civil Engineering Students present.
- 66 current ASCE members.
- Our officers and executive board presented on upcoming field trips, community service events, socials, and intramural sports games.
- The guest speaker, Timothy Smith, PE of MWH, spoke about the West Palm Beach Water Treatment Facility and related real-world applications to lectures in students' courses.



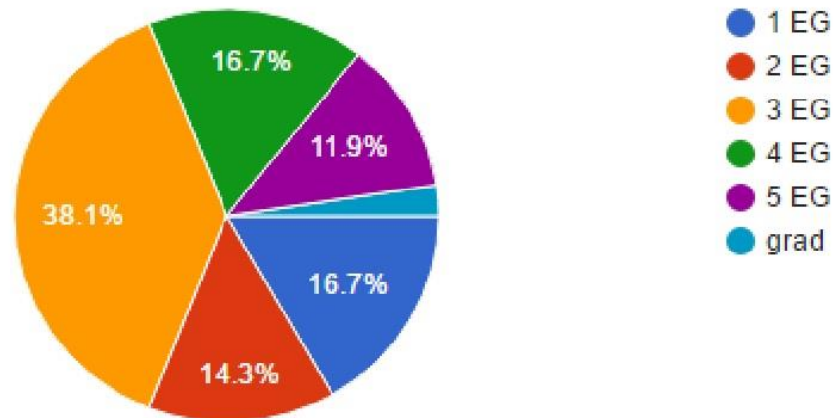


2/03/16 General Body Meeting

President, Nike Bauer, and Vice President of External Affairs, Daniel Torre, take a picture with guest speaker, Timothy Smith, PE of MWH.



Our chapter tries to branch out to Civil Engineering students in every year. Every meeting, our sign-in process records how many attendees there are and what year they are in.





9/28/16 General Body Meeting

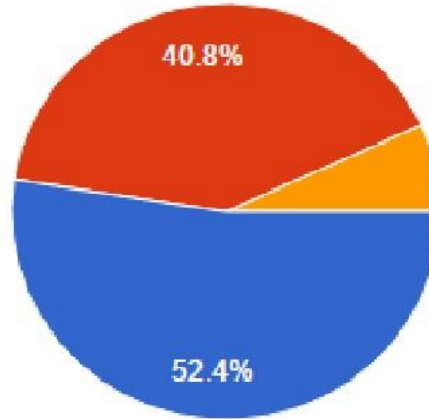
- 9/28/16
- 2nd General Body of the semester.
- 103 Civil Engineering students present
- 55 current ASCE members
- Unfortunately due to Hurricane Hermine, the first ASCE general body meeting was canceled. Therefore, our meeting wasn't able to take place until the 28th of September.
- The ASCE student president, John Everson, presented about our student chapter, the opportunities available within ASCE, and how to join. Officers and executive board members presented on upcoming field trips, social events, community service opportunities, and other ways to get involved in the club.
- The Weitz Company came to speak about their construction company and several current and past projects the company is doing or has done.



9/28/16 General Body Meeting

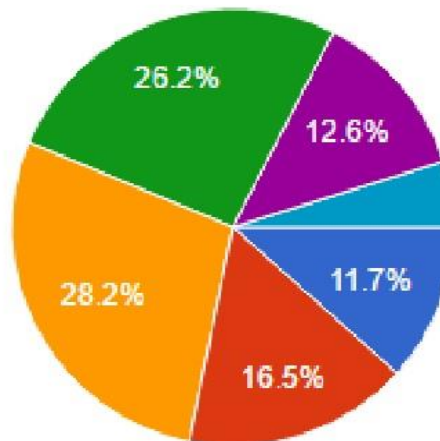
Our goal in the beginning General Body Meeting of each semester is to reach out to as many Civil Engineering students who are not current ASCE members and are 1 EG and/or 2 EG. We do this through advertising through social media and by having out Recruitment Chairs attend Intro to Engineering classes and tabling events.

Are you a current ASCE member?



- Yes
- No
- Not Sure

What year are you?



- 1 EG
- 2 EG
- 3 EG
- 4 EG
- 5 EG
- Graduate school



10/26/16 General Body Meeting

- 10/26/16
- 4th General Body Meeting of the Fall semester
- 63 Civil Engineering students
- 53 current ASCE members
- Officers discusses events such as the upcoming field trip to NASA, the Rebuilding Together community service, and Helping Hands Pet Rescue community service.
- The University of Florida chapter of ASCE prides itself on the diverse number of speakers we get from a broad range of disciplines. This meeting Hazen and Sawyer, a water resources and water/wastewater engineering firm, presented at the meeting and discussed what their company was and the opportunities available there for future civil engineers.



10/26/16 General Body Meeting

Our Vice President of Internal Affairs, Kaley Witenstein; our Intramurals Chair, Justin Dutreil; and our Vice President of Internal Affairs, Chris Verzillo.



Our Vice President of Internal Affairs, Chris Verzillo, is shown presenting about the upcoming field trip to NASA.



Field Trips: Orlando

- 4/22/2016
- Number of students that attended- 9
- Our chapter visited various sites in Orlando with the ASCE East Central Branch as well as the University of Central Florida (UCF) ASCE student chapter. Sites visited included I-4 Ultimate, FINFROCK Precast Plant, the Orlando Soccer Stadium, and the Orlando International Airport. Afterward's, our chapter had a social with both the UCF ASCE students and the professionals who went.





Field Trips: Orlando



We had a great time during our Orlando fieldtrip!



Field Trips: NASA

- 40 members attended
- 11/04/2016
- University of Florida ASCE students took a tour of both the Kennedy Space Center (KSC) Swamp Works establishment and the Vehicle Assembly Building (VAB). At the KSC Swamp Works, students were introduced to new technology currently being engineered for the Mission to Mars. Students were shown the largest single story building in the world, the VAB, and given a brief history of the building and of the many shuttles built in it such as Saturn V. Later, students got the chance to socialize and walk around the Kennedy Space Center visitors area.





Field Trips: NASA



We had a BLAST touring NASA!



Spangler Lecture



- 4/06/16
- 56 students and faculty attended our annual Bryan D. Spangler Lecture hosted at the Hilton. ASCE President-Elect Dr. Norma-Jean Mattei spoke about her career as a Civil Engineer and what the future holds for those in the field. Dinner was provided and members got the chance to speak with Dr. Norma-Jean Mattei.



Student Conference

- 2016 Southeastern Regional Conference
- Hosted by the University of Alabama
- 3/10/2016-3/13/2016
- 63 students attended
- Conference was Held in Tuscaloosa, AL where the University of Florida places 3rd overall, as well as in other categories:
 - 1st place overall in Concrete Canoe
 - 2nd place overall in Steel Bridge
 - 3rd place overall in Concrete Corn hole
 - 2nd place overall in T-Shirt Design
 - 3rd place overall in Visual Display
 - 3rd place overall in Balsa Bridge
 - 2nd place overall in Mystery Competition



Student Conference

Our chapter is beyond proud of our presenters for the Concrete Canoe team.



Always cheering for the Concrete Canoe team and for the Gators!



Student Conference



Our Steel Bridge team in action. Go Gators!



Student Conference



Good job to all of our teams for the mini competition!





Leadership Development



- Workshop for Student Chapter Leaders (WSCL)
- Pittsburgh, PA
- 2/12/2016-2/13/2016
- 8 students attended



National Conference

Concrete Canoe

- Tyler, Texas
- 6/09/2016-6/11-2016
- 14 students attended.
- 2 faculty advisors attended.
- Placement
 - 9th Overall in the Nation
 - 4th in Men's Endurance Race
 - 2nd the Women's Endurance Race
 - 1st in Co-Ed Sprint Race





National Conference



Steel Bridge

- Provo, Utah
- 5/27/2016-5/28/2016
- 9 students attended.
- 1 faculty advisor attended
- Placement
 - 3rd Overall in the Nation
 - 1st Place in Efficiency
 - 1st Place in Lightness
 - 3rd Place in Stiffness



Energy Whiz Expo

- The community service chairs for our chapter planned and organized the volunteer effort for the annual Energy Wiz Expo. This expo, which was held on April 9th, provided elementary school students of North Central Florida the opportunity to participate in various competitions centralized around sustainable and renewable energy.
- Competitions included solar energy-powered cars, cooking their choice of pasta, sweet treats, or vegetables with solar energy, and creating a sustainable pet house. Our members were tasked with helping the event run smoothly in order to support the youth's continuing interest and involvement in science.





Energy Whiz Expo

- Our main mission for this project was to engage young kids in fun, scientific experiments and get them exposed to the STEM field while they're young. Students in elementary school learn best when they're engaged in an activity. We hope that they took away the knowledge of knowing that engineering is exciting from doing these activities and we hope they enjoyed it just as much we did.
- Percent of total members that worked on project: 10.5%
- Location: Gainesville Raceway
- Number of students: 21
- Number of man hours: 150



Energy Whiz Expo



Our chapter knows
how to have fun
while working hard!





Girl Scouts Merit Badge

- The chapters goal was to branch out to the local community by reaching out to the Girl Scouts of North Florida and introducing them to Civil Engineering. The objective was to host a Merit Badge day for this troop of 40 scouts and set a foundation for our student chapter to begin a yearly event that teaches scouts about civil engineering.



Girl Scout Civil Engineering Merit Badge Day

Date: December 3, 2016

Time: 9:00AM to 11:30AM (Event will end at 3:00PM and all professors and professionals may stay as long as they would like)

Where: Weil Hall

Activity: This event for middle school and high school age girl scouts will teach them about the field, what it entails, and the many interesting disciplines we have been studying.

We are seeking professors who will present a brief introduction and engage the participants with demonstrations in the following Civil Engineering disciplines: Transportation, Structures, Geotechnical, and Water Resources. These introductions and demonstrations will last about thirty minutes each.

In teams the girls will take what they learned to create a model bridge built over a figurative river using soil and water try for the "strongest foundations" and Legos to create the bridge over a river that will be drawn on their boards. The bridge would have to support two lanes of mini traffic and be built up to a height that accounts for tidal changes. The scouts will have used everything they've learned throughout the day to create the best model, and each project will be judged by industry professionals

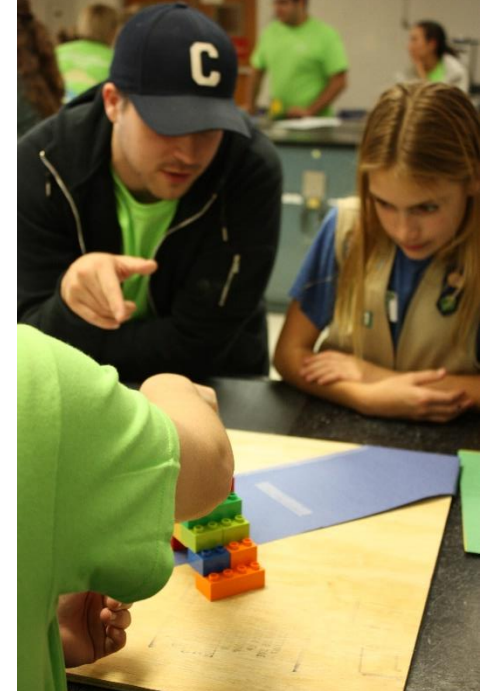
Additional Information: The event will include a T shirt and lunch from 11:30 to 12:30. After lunch the professors may go, however can choose to stay. Professors with daughters in this age category are more than welcome to participate, please RSVP for both.

RSVP: ufascegirlscoutcommittee@gmail.com



Girl Scouts Merit Badge

- The girl scouts were given hands-on lectures on Geotechnical, Structural, Hydraulic, and Transportation concepts, all of which were led by University of Florida professionals. Topics ranged from the effect of water content on soil strength to the structural stability of bridges. After all the lectures, the scouts were given a “mini-capstone project”, where they were asked to construct a bridge using Legos while stabilizing the structure using a clayey sand as a foundation. Students had to have understood several of the day’s concepts to complete the task. For example, if students used too much water in their clayey sand, the soil would not have been rendered usable to hold the bridge in place. They had to as well accommodate for a certain number of roads on the bridge and for the tidal changes of the river.





Girl Scouts Merit Badge

- The field of Civil Engineering is disproportionately populated by men at the moment. Often, students do not know about the field at a young age and only come in contact with it as they progress in their collegiate career. By showing what Civil Engineering has to offer to these young scouts, we hope to leave a positive and lasting impact on them and hopefully inspire them to pursue a degree in the field. That impact is more long term. In the short term, this project was founded with the purpose of making an annual event for the local scout community funded, led, and staffed entirely by the University of Florida ASCE chapter





Girl Scouts Merit Badge



- 40 Scouts
- 3 professors
- 2 graduate students
- 31 volunteers
- 3 practitioners
- 16% of total members
- 100 hours



Summary and Questions

Highlights! Just to name a few

- Our students had an unforgettable time and learned so much at the Workshop for Student Chapter Leaders in Pittsburgh. For some, it was their first time seeing snow!
- We are so proud of our chapter as a whole for placing 3rd overall in the 2016 Southeastern Regional Conference.
- The Energy Whiz Expo was an incredible way to work with elementary school kids and expose them to the STEM field.
- Thank you to Dr. Norma-Jean Mattei for being the speaker at our Spangler Lecture and teaching us of the innovations happening in civil engineering.
- We had an incredible time with the Orlando branch and the UCF ASCE chapter during the Orlando Field Trip.
- We are honored to have won the 2016 Florida Section ASCE Scholarship and Kathy J. Caldwell, P.E. ASCE Florida Section Student Chapter of the Year at the 2016 ASCE Florida Section Annual Conference.
- The NASA Field Trip was a huge success and our members learned so much about the history of NASA and where the company wants to go in the future! (Spoiler: they plan to go to Mars.)
- We had a blast hosting the Girl Scout Merit Badge Day and helping young girl scouts learn more about civil engineering.



Summary and Questions

Challenges We Faced

- Like many other clubs, the University of Florida ASCE student chapter struggles with participation. We see sharp declines in general body meeting attendance after the first two meetings. Although close to half of students identified as juniors or seniors in the civil engineering department are currently ASCE members, that percentage is much smaller when it comes to younger members.
- Fundraising remains a challenge every year. We are a self-funded club so we are always looking for ways to improve our fundraising either through donations, concessions, or by being more precise when tracking our spending.
- Our club struggles to keep connected with our ASCE Gainesville Branch and to keep the branch involved in our student activity.



Summary and Questions

Thank you!



If you have any questions, feel free to contact us.
And, as always, Go Gators!