

UNIVERSITY OF FLORIDA
ANS STUDENT SECTION
2017 - 2018

Samuel J. Glasstone
Award Submission

Executive Board:

President: DANIEL ARIZAGA
VP, External: MICHAEL ZAHRADNICK
VP, Internal: RAE BRUENDERMAN
Treasurer: DAVID PRIDA
Secretary: CESAR POSAZ
Historian: JOHN ELLIOT
Fundraising Chair: EMMA COCKRAM

Faculty Advisor:

DR. ANDREAS ENQVIST



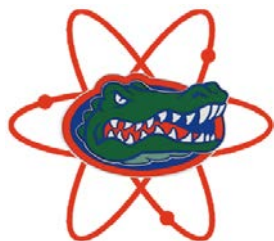


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University of Florida American Nuclear Society Student Section



April 30th, 2018

To whom it may concern:

I take great pleasure in strongly supporting the application of the University of Florida American Nuclear Society (UF-ANS) Student Section for the Samuel J. Glasstone Award. As a faculty advisor, I have had the pleasure of observing and interacting with the creativity, drive, and energy of the Section's officers and members. I am very impressed with the vitality and commitment that its members have demonstrated throughout the year. This has really become apparent with the planning and volunteering efforts to successfully host the 2018 ANS Student Conference. Although the student conference had its own organizing committee it was drawn from the UF-ANS ranks, and more importantly showed a great combination of graduate students upper and lower classmen undergraduate students resulting in an amazing bonding experience in ANS across, leadership officers, members and supporter.

The student section is a very active one with a large number of outreach and activity events as detailed in the full Glasstone award application. The officers especially strove to have members learn about career opportunities related to nuclear engineering by supporting tours to locations such as Oak Ridge National Laboratory.

It is therefore with great confidence I am writing this letter of support as the current UF-ANS faculty advisor for the Student Section to be considered for the 2017/2018 Samuel J. Glasstone award. I hope the award committee recognizes the outstanding efforts and goals of this organization when they consider candidates for the Glasstone award.

Sincerely yours,

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1 Introduction

The Nuclear Engineering Program (NEP) at the University of Florida (UF) has continued build upon itself over the past year. This has translated well over from the Student Section via career opportunities and social events. This year's success for the NEP and Student Section can greatly be attributed to the hosting of the 2018 ANS Student Conference. This success can promulgate future years to come as the student body increases and the educational value of the program becomes more defined. This document contains the highlights of the Student Section and how it has attributed to its overall success.

1.1 Executive Board

The Executive Board for our section consists of the following officers: President, Vice-President (VP) Internal, Vice-President External, Secretary, Treasurer, Benton Engineering Council (BEC) Representative, and three members of the Board of Governors. In addition, we have two chair positions, which include Fundraising Chair and Historian. This past year's executive board was unique in that there was a person on the board from every class standing, from freshman in college to a third year graduate student. The diversity in class standing greatly benefited the society, as there were many curated events that appealed to a broad cross section of the student population.

1.1.1 President

This year's President was Daniel Arizaga, a graduating senior in the NEP. During the year, Daniel provided oversight for the General Body Meetings, Executive Board meetings, social events, fundraising events, and workshops. Cesar Pozas, a rising junior, will be taking over as the President for the 2018-2019 academic year.

1.1.2 Vice-President Internal

This year's Vice-President of Internal Affairs was Rachael Bruenderman, a junior in the NEP. Throughout the year, the VP Internal assisted with the organization of the General Body and Executive Board meetings. In addition,



she organized the De-Stress Potluck and the End of the Year Banquet. Heaba Nouredine, a rising junior, has been elected as the VP, Internal for the 2018-2019 academic year.

1.1.3 Vice-President External

Anthony Zahradnick, a graduating senior, was the Vice-President of External Affairs. He organized the tours at: the Edwin I. Hatch Nuclear Power Plant (Baxley, GA), the American Museum of Science and Energy (Oak Ridge, TN), the Oak Ridge National Laboratory (Oak Ridge, TN), and the University of Tennessee's Nuclear Engineering Department (Knoxville, TN).

1.1.4 Secretary

This year's Secretary was Cesar Pozas, a sophomore in the NEP. Cesar attended and took notes at all General Body and Executive Board meetings. He also assisted with setting up several recruiting/tabling and fundraiser events throughout the year. John Elliot, a rising junior, has been elected as Secretary for the 2018-2019 academic year.

1.1.5 Treasurer

David Prida was the treasurer this year. He helped us secure funding from BEC and made sure all funding requests were processed in a timely and organized manner. Additionally, he helped order our ANS shirts for our section. Alexander Mausolff, a fourth-year senior, has been elected as Treasurer for the 2018-2019 academic year.

1.1.6 Benton Engineering Council (BEC) Representative

The BEC Representative, Nick Berg, a graduating senior, was responsible for being the face of ANS at the BEC meetings and events. He was additionally responsible for communicating information between the Student Section and the BEC. The BEC for the University of Florida serves as an executive and legislative body for all engineering disciplines and societies within the university.



1.1.7 Board of Governors

The Board of Governors for this year were Daniel Ospina, Kristin Smith, and Tyler Askew. Their duties included advising the Executive Board members and assisting with multiple ANS events. The Board of Governors for the 2018-2019 year are rising NEP seniors Rachael Breunderman, and David Prida.

1.1.8 Fundraiser Chair

Emma Cockram, a first-year graduate student, was responsible for the planning of fundraising events through out the year. She organized two fundraisers, the Super Bowl LII Gumby's Pizza Fundraiser and the Chipotle Fundraiser.

1.1.9 Historian

John Elliot, a sophomore, showed an eagerness to join ANS right away as the historian. He helped keep records of our events and collected information on the University of Florida Training Reactor to help next year's effort of establishing a public informational center highlighting the NEP.

1.1.10 Faculty Adviser

Dr. Andreas Enqvist, an assistant professor in the Nuclear Engineering Program, was this year's Faculty Advisor. His responsibilities involve serving as the liaison between the Student Section and the department. Dr. Enqvist was always available for consultation, and attended many of the Section's meetings and activities.

2 Operations

2.1 Internal Communication

To disseminate information to a large amount of students quickly, we rely on a private Facebook group to communicate with our members. It provides the means to interact with current ANS student members and alumni at the same time. The Facebook group, "ANS at UF", is used to notify members of events, general body meetings, tours, and socials, and to allow members to post interesting nuclear facts or questions for the benefit of the group. The



link for the Facebook page is www.facebook.com/groups/ansgators/.

In addition, information is communicated through the NEP's email list-serv. With this method, information can be sent via email to the Program's students and faculty.

2.2 General Body Meetings

Our chapter hosted General Body Meetings (GBM) at least once a month, on Wednesday nights. These provided an opportunity to discuss upcoming events, and brainstorm on what we want to do in the future.



Figure 1: Spring semester GBM Flyer



2.3 Executive Body Meetings

Executive Board meetings were held among the officers of the Executive Board. These were held approximately a weeks prior to each GBM, once every month.

2.4 Finance

Our student section is fortunate to have funding sources from several areas. Such funding allows us to travel to the Winter Annual Meeting, the Student Conference, provide food during our GBMs, hold tailgates, and other events throughout the year. The breakdown of our funding sources is provided in Table 2.4. The UF ANS student section has a spending account through the BEC. The account with BEC allows students to use ANS funds in a reimbursement type system, with approval required from both the President and Treasurer before funds can be allocated. BEC allocates funds, approximately \$1,400 each, to ANS for use for the ANS Winter Meeting and Student Conference.

Source of Income	Amount (\$)
Benton Engineering Council	3,500
Department	1,000.00
ANS Northern Florida local section	3,000.00

3 Events

3.1 Outreach

3.1.1 Engineering Society Ice Cream Tabling Event

For the first-year engineering students that lived in the engineering dormitory, there was a tabling event hosted for showcasing the different engineering organizations. Five students represented the Student Section and showcased to curious freshmen what nuclear engineering and ANS is. They had the pleasure of learning about the exciting field of nuclear engineering while enjoying ice cream!



Figure 2: Students showing off the Student Section

3.1.2 College of Engineering (COE) Alumni Tailgate Event

The COE Alumni Tailgate Event was an opportunity to showcase our ANS Student Section to UF Engineering Alumni. Our members at this event discussed our plans for the the year, educate about nuclear energy, and describe the career paths that we plan to take after graduating.



Figure 3: ANS Student members showing off their ANS/UF pride!



3.1.3 eSwamp Engineering Organization Fair Event

On August 26th, the Society for Women in Engineering held their annual eSwamp Engineering Organization Fair Event. This event garners over 200 freshmen female engineering students to connect with professors, upperclassmen, and engineering societies available on campus. Our ANS Student Section had a table at the event and spoke to dozens of interested freshman about nuclear engineering, ANS, and Women In Nuclear (WIN), and answered any questions they had about nuclear energy or the NEP.



Figure 4: ANS and WIN Members Highlighting the NEP

3.1.4 Engineering Week (E-Week) Event

On March 1st, E-Week took place at the Reitz Union Grand Ballroom. Attendees were able to interact with engineering-based clubs and participate in activities with faculty that exemplified the different fields of engineering.

Similar to last year, our student members designed a display for teaching students about the principles of fissioning atoms. The display consisted of a spinning target with different regions that represent common isotopes found in a light water reactor. The size of different regions on the target indicate the magnitude of the isotope's absorption cross section. Moreover, the target



was attached to a spinning wheel in order to demonstrate the probability of interaction. Students were given the opportunity to use nerf guns to shoot at the target, representing thermal neutrons, aiming for the U-235 region. Through this game, and accompanying posters and displays, students learned about U-235 fission, neutron absorption, and criticality.



Figure 5: President Daniel teaching the students about nuclear cross sections.

During this week, there were two days designated for outreach activities – one day for high school students and the following day for middle and elementary school students. The goal was to educate the youth about engineering fields and inspire them to pursue STEM degrees.

The student volunteers led different stations in which the young participants could learn about different nuclear related concepts and devices. Two mock fuel assemblies borrowed from the UFTR were put on display along with sample fuel pellets. Through these interesting visual aids, student volunteers were able to provide the participants with a visually enhanced mini-lesson on nuclear fuel. Additionally, radioactive clocks and glass were displayed. With a Geiger-Mueller counter, participants could detect the minute amounts of radiation emitted by these objects.

3.1.5 Gator Engineering Experience Day

This year UF admitted nearly 15,000 incoming students for the Class of 2022. Of those, over 250 were invited to join the COE's Gator Engineering Experience (GEE) Day. GEE Day is hosted by the Engineering Ambassadors, and is established to give incoming students a chance to learn about the different



engineering majors that the university has to offer. Booths were setup to showcase each engineering field and the possible career routes available. The Student Section teamed with UF's Institute of Nuclear Materials Management (INMM) Student Chapter to promote the field of nuclear engineering. Representatives from both student organizations gave out flyers (as seen in Figure 6) and talked about NEP.



Nuclear Engineering



The Nuclear Engineering (NE) program was established to contribute to research and education for the application of nuclear science and engineering. Within the Department of Materials Science and Engineering (MSE), the Nuclear Engineering program is a discipline with various applications including homeland security, power generation, radiation transport methods, nondestructive imaging and detection, advanced nuclear materials, nuclear reactor thermal hydraulics, as well as nuclear safeguards and nonproliferation.



Possible Career Paths:

- Commercial Nuclear Power
- Navy Nuclear Propulsion
- Medical Radiology
- Radiation Oncology
- Space Propulsion
- Nuclear Fusion
- Radiation Shielding
- Fuel Disposition
- ...And More!

DEPARTMENT EVENTS	
Internal Reactor Tours	The University of Florida has a reactor ON CAMPUS!
External Reactor Tours	Vogtle, St. Lucy, and MORE
Movie Nights	Watch movies about nuclear tech and history
Study Sessions	FREE FOOD while you study with your friends
Student Seminars	Chance to present your research to colleagues
Annual National Conferences	Attend ANS and INMM conferences
Nuclear Engineering Student Delegation	Connect with elected officials about nuclear energy and the future of energy in the United States
Panels and Virtual Panels	Participate in a discussion about various nuclear issues
Social Events	Group socials held at local restaurants

STUDENT ORGANIZATIONS



INMM
INSTITUTE OF
NUCLEAR MATERIALS
MANAGEMENT



Figure 6: Flyer created for GEE Day



(a) Noah, President of the INMM Chapter highlighting the Program



(b) A close-up view of the UF Training Reactor model showcased

3.2 Invited Alumni Speaker: Brett Rampal

UF alumnus Brett Rampal discussed the fundamentals of reactor core design as well as insight with the current licensing and economic models concerning advanced reactors. This served as an opportunity for undergraduate seniors to gain insightful knowledge with regards to the advanced reactors that they were required to design for the NEP's annual Senior Design Capstone Project. As someone with industry experience from NuScale, the Clean Air Task Force, and as well as the former Young Member's Group Chair, this presentation served to be beneficial for many students.

3.3 Fundraisers

3.3.1 Chipotle Fundraiser

On November 20th, the Student Section held a fall semester fundraiser at a Chipotle Mexican Grill located near the University of Florida campus. Many of the student members came out to support the Student Section by purchasing food and drinks. A small portion of all food and drinks purchased at the fundraiser was donated by Chipotle to the Student Section, resulting in \$70. These donations were used to help support the Student Section's travel costs for tours throughout the year.



Figure 8: Flyer for the Chipotle fundraiser

3.3.2 Gumby's Pizza Fundraiser

On February 4th, 2018, a fundraiser was held at Gumby's Pizza in Gainesville, Florida to raise money for the ANS Student Section as well as celebrate Super Bowl Sunday. For any students that identified with the ANS Student Section, a small percent of their check was donated to the Student Section generating a total of \$70 in funds by the end of the night. These donations were also used to help support the Student Section's travel costs for tours throughout the year.

3.3.3 T-Shirts

As a fund-raising opportunity, the Student Section was able to design and sell ANS t-shirts. By wearing these t-shirts to conferences and other events on campus, we hope to promote ANS and the positive impact that nuclear energy can bring to our planet. Fundraising proceeds will be used to further promote our Student Section in its efforts to educate its members and the public.



Figure 9: ANS Student Section T-shirts

3.4 Social Gatherings

3.4.1 De-Stress Potluck

On December 6th, 2018, students gathered at a student member's house and had an opportunity to enjoy a delightful potluck dinner together, as well as several competitive games of pool and board games. Even though many students were busy with finals week, this potluck provided students with the perfect opportunity for a break from their studies and to enjoy each other's company.

3.4.2 ANS Local Section Social

On February 28, 2018, over 20 students attended a social hosted by the ANS Florida Local Section at the World of Beer. This event offered free food and non-alcoholic drinks during a trivia night that was showcased at the pub. Dr. Sedat Goluoglu, the Treasurer of the Florida Local Section, took the opportunity to present the Local Section academic scholarships for the 2017-2018 school year. The awards were one undergraduate scholarship and two graduate scholarships, at \$1000. The purpose of the scholarship is to reward hardworking students who believe in nuclear science and technology and are willing to go above and beyond to promote nuclear energy. The recipient of



the undergraduate award was Daniel Arizaga, and the graduate awards were presented to Zander Mausolff and Pat Moo.

3.4.3 Ginnie Springs Retreat

The annual ANS Student Section end of the year retreat was held at Ginnie Springs in High Springs, Florida on April 22nd, 2018. Students gathered at Rhines Hall to be transported by multiple vehicles to Ginnie Springs, where students were able to tube down the river, play beach volleyball, swim in the spring, and eat free food that was provided by the Student Section. After a long school year, many of the students enjoyed having some down time with fellow ANS Student Section members. Figure 10 shows a group of the students enjoying themselves outside of the springs.



Figure 10: UF Students outside of Ginnie Springs

3.4.4 End of the Year Banquet

This year's ANS end of the year banquet took place on April 26th, 2018, in Rhines Hall, the home of the Materials Science Department and the Nuclear Engineering program. At the end of the year banquet, our organization reviewed the past year and the accomplishments that our students were able



to achieve, including various awards and graduation announcements. These awards included faculty member of the year, graduate student of the year, and undergraduate student of the year. The faculty member of the year was voted on by the students in the nuclear department, while the student awards were determined by the professors. This year's award winners were Dr. DuWayne Schubring, Zander Mausolff, and Kristin Smith, respectively. Additionally, the incoming executive board was announced and the new president, Cezar Pozas, was given time to discuss plans for the upcoming school year. Lastly, special recognition was given to Patrick Moo and Zander Mausolff for winning the proposal and organizing a successful 2018 ANS Student Conference. Nearly 30 students were in attendance this year as well as several of the faculty.



Figure 11: Setup for the End of the Year Banquet

3.5 Conferences

3.5.1 Annual Winter Meeting in Washington, D.C.

UF was well represented at the Annual Winter Meeting held in Washington, D.C., consisting over 20 UF students and faculty in attendance. Among



the students in attendance, a wide span of different education levels were represented ranging from undergraduate sophomores to fifth-year graduate students. Figure 12 shows this group of students posing in the main lobby of the Marriott at Wardman Park, where the conference was held. With the support of the funds from the Northern Florida Local Section, the Student Section was able to fund the hotel costs of 13 students. The Winter Meeting also served as a prime opportunity for students attempting to present research papers or posters for the annual poster presentation session. Overall, the Winter Meeting provided students with exposure to the nuclear industry, especially for students who had never attended a Winter Meeting before.



Figure 12: UF Students and Faculty Doing the “Gator Chomp”

3.5.2 Student Conference

The 2018 ANS Student Conference was held at the University of Florida from April 5-7th. The theme for the Conference was “Nuclear Equality in Policy, Energy Access, and Within the Engineering Community”, and it was a pleasure to host more than 450 attendees from regions both domestic and abroad. Patrick Moo, Rachel Bruenderman, and Alexander Mausolff were Co-Chairs (As shown in Figure 13) whose planning and organizational efforts ultimately led to the success of the Conference. The Co-Chairs led the Planning Committee to establish the highlighting events of the Conference such as the technical tours, workshops, and presentation panels. The success of this event is also contributed to the students who volunteered time out of their academic schedules to take on demanding tasks such as shuttling Conference attendees and working at the registration desk. We would like to thank ANS and the Student Sections Committee for allowing us the honor of hosting Conference. In addition, we look forward to the success of next



year's Conference at the Virginia Commonwealth University.



PATRICK MOO
Co-Chair
General Program



RAE BRUENDERMAN
Co-Chair
Conference Logistics



ZANDER MAUSOLFF
Co-Chair
Technical Program

Figure 13: The Student Conference Co-Chairs



Figure 14: Pictures from the student conference

3.6 Tours

3.6.1 Edwin I. Hatch Nuclear Power Plant

On December 1st, 2017 the American Nuclear Society Student Section visited the Edwin I. Hatch Nuclear Power Plant in Baxley, Georgia, in order to give students an opportunity to visit a nuclear power plant. Upon arriving at the Hatch Power Plant, the students stopped at the visitor center to be given a brief overview of the power plant. After the overview, the students were loaded into a van and driven around the nuclear power plant, providing close-up viewing access to cooling towers, waste fuel storage facilities, the turbine building, and outer reactor vessel containment. Many of the students



on the tour had never been to a nuclear power plant before and were finally given a sense of tangibility for the pictures discussed in their classes. After the tour, students had the opportunity to hold a discussion and ask questions from a panel of Hatch Power Plant engineers including two interns, a mechanical engineer, an electrical engineer, and a Senior Reactor Operator (SRO). The panel of engineers were able to answer many of the students questions pertaining to daily job duties, even offering advice on how to pursue future internships and job opportunities.

3.6.2 Oak Ridge & University of Tennessee, Knoxville Tours

Over the students spring break, from March 5th-7th, 2018, the Student Section provided members with the opportunity to visit the Museum of Science and Energy (ASME), the Oak Ridge National Laboratory (ORNL), and the University of Tennessee, Knoxville (UTK).

American Museum of Science and Energy

On March 5th, the students were taken to the American Museum of Science and Energy in Oak Ridge, Tennessee. At the museum, students were able to view a range of exhibits displaying the nuclear history in the United States including the history of Y-12 production facility, the United States history of nuclear weapons, and many more. After touring the museum, students were loaded onto a separate tour bus that then drove students to the Y-12 production facility. At Y-12, students were given a brief history overview of the production facility as well as a limited tour of the visitor center. Students were then driven around the Oak Ridge National Laboratory (ORNL) grounds and taken to the famous Graphite Reactor, which was designed after Enrico Fermi's Chicago Pile-1. Figure 15 shows the students standing at the landmark sign outside of the reactor.

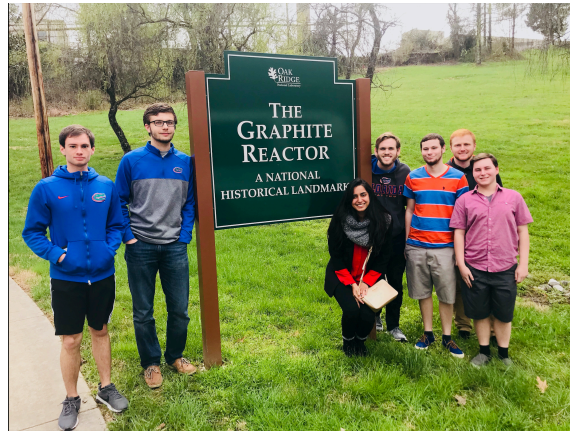


Figure 15: Students outside the Graphite Reactor

After driving through ORNL property and stopping outside of a few specific facilities including the Spallation Neutron Source (SNS) and the grounds where K-25 used to exist, students returned to the museum where their tour concluded.

Oak Ridge National Laboratory

On March 6th, the students returned to ORNL to be given a more in depth tour of the laboratories facilities. Dr. Vladimir Sobes, a member of the Research and Development team at ORNL, provided an in-person tour of ORNL facilities including the SNS, the Oak Ridge Leadership Computing Facility (ORLCF), the Graphite Reactor, the High Flux Isotope Reactor (HFIR), and the Radiochemical Engineering Development Center (REDC). At each of these facilities, specific engineering employee's were selected as to provide more comprehensive descriptions of the facilities that may be omitted in a general public tour. Figure 16a and Figure 16b shows the students at the ORNL main campus as well inside the Graphite Reactor facility, respectively.



(a) Students at Main ORNL campus (b) Students at the Graphite Reactor

Figure 16

After touring ORNL, students returned to the main campus where they were able to ask Dr. Sobes any final questions pertaining to ORNL and opportunities available. The possibility of establishing a ORNL operated SCALE workshop at the University of Florida was discussed as well, which would provide students with the opportunity to better educate themselves as well as strengthen the bonds between the national laboratory and university.

University of Tennessee, Knoxville

The final tour of the trip took place on March 7th, at the University of Tennessee, Knoxville (UTK). The Department of Nuclear Engineering hosted the students for an entire afternoon of tours, presentations, and discussions. The students were first introduced to the Department by the Dr. Wesley Hines, the current Department head of the Nuclear Department. Dr. Hines explained the current department operations and future plans. This presentation then lead to a partial tour of the facilities located on UTK's campus. Students were able to view multiple laboratories throughout the facilities, exposing students to advanced scientific equipment including a Scanning Electron Microscope (SEM), a Transmission Electron Microscope (TEM), a clean room, and even a Deuterium-Tritium (D-T) Neutron Generator. After the laboratory tours, students were then treated to a lunch where they met and spoke with members of the UTK ANS Student Section. Figure 17 shows both Student Sections after enjoying a free lunch provided by UTK.



Figure 17: UF and UTK Students after a lunch discussion

After lunch, both the UF and UTK student sections attended a presentation given by author Richard Cook summarizing his book, *Ignored Heroes of World War II*. After the presentation had concluded, students from both UF and UTK Nuclear Department met for a meet and greet with UTK professors. During this time, students from both universities had the opportunity to speak with professors and other student members, establishing connections as well as learning more about each others respective programs.

3.7 Workshops

3.7.1 LaTeX Workshop

After one of the GBMs, Dr. Andreas Enqvist gave a presentation on the different features that LaTeX has to offer. Students participated in the workshop, using their own laptops as Dr. Enqvist provided several examples of slide shows, resumés, and research papers formats that were created in LaTeX.

3.7.2 Career Development Workshop

Several members of the Executive Board held a workshop to help students with building a proper resumé and curriculum reviewed interview techniques, how to make a solid first impression, and how to properly network at conferences.



3.8 Government Involvement

3.8.1 Gator Day at the Capital

This year, several students representing the Student Section formed the Florida Nuclear Engineering Student Delegation (FLNESD), patterned on the national Nuclear Engineering Student Delegation held annually in Washington DC. On February 15th, FLNESD went to Florida's State Capital Building in Tallahassee for UF's annual Gator Day where they had the opportunity to speak with several key officials of the state's legislative branch of government. Most notably, they had the opportunity to speak with Keith Perry, the Senator for Gainesville, about the importance of the nuclear engineering program at UF and how nuclear power benefits the state of Florida. Furthermore, the students witnessed a Senate appropriations hearing to learn how legislation is passed and amended. Finally, the students received a tour of the capital building from Jerry Paul, a UF nuclear engineering alumnus who had a successful career working at a nuclear utility and later as a politician.



Figure 18: Students with UF Mascot Albert the Alligator



3.8.2 Turkey Point Nuclear Power

The day after the Student Conference concluded, FLNESD travelled south to Miami, FL to meet up with Jerry Paul and a group of students from Florida International University to tour the Turkey Point Nuclear Generating Station, including its unique cooling canal system. They were accompanied by Eric Myer, the founder of Generation Atomic, a non-profit organization that advocates for maintaining the country's nuclear power plants. The students toured Turkey Point to learn about the recent proposal to build a wastewater treatment facility, which would provide millions of gallons of water for the plant's cooling canals. They learned about the importance of the Turkey Point's efforts and challenges of using the canals to preserve local wildlife and how this new proposal would be a win for power generation and for the environment.



Figure 19: UF and FIU students at the Turkey Point Plant

3.8.3 Board of County Commissioners Meeting

The following day FLNESD, Eric, and Jerry went to the Stephen P. Clark Government Center to visit the Miami-Dade County Board of County Commissioners Meeting. The Board was meeting that day to discuss the proposal to build a wastewater treatment facility by Turkey Point. Unfortunately, there were also environmental “activists” there claiming that this proposal wasn’t doing enough to protect the environment and claimed that Turkey Point must build cooling towers. FLNESD interacted with these activists to



help them understand how Turkey Point is helping the environment and how building cooling towers would not only be economically disastrous for Florida rate-payers, but would ultimately harm the environment more. At the end of the day, the county commissioners approved to move forward with the agreement to build the wastewater treatment facility, a big win for nuclear power and for the environment. Finally, FLNESD plans to write a letter to the editor of the Miami Herald, Miami's largest newspaper, showing support for and explaining the benefits of the wastewater treatment facility.



Figure 20: Celebration of the "Win" for nuclear power

4 Conclusion

In conclusion, the Student Section of ANS at the University of Florida was able to maintain its momentum from previous years in areas such as public outreach and student tours while elevating and expanding student involvement in the nuclear community. Attending topical conferences and policy summits, hosting relevant program workshops, and preparing and receiving a bid to host the 2018 ANS Student Conference all contributed to the Student Sections success this year. Ultimately, the goal of a student section is to foster the growth of students interested in nuclear engineering and help begin their careers as advocates for advancing and promoting the nuclear sciences. Through the collective efforts of this years ANS Student Section at UF, students were provided with the tools necessary to connect with one another and connect with the nuclear community.