

SAMUEL J. GLASSTONE **2023-2024 AWARD REPORT**

AMERICAN NUCLEAR SOCIETY
PENNSYLVANIA STATE UNIVERSITY



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Abstract

The American Nuclear Society Penn State Student Section has ~60 active members. Although nuclear engineers make up a large percentage of the general body, the chapter is open to anyone passionate about the use of nuclear technology, regardless of their discipline. General body meetings are held monthly in the Fall and Spring semester, in which members convene to socialize and receive updates from the student chapter. Food and refreshments are provided to all attendees, regardless of their membership status. This approach to meetings has allowed a great community and culture to grow among attendees. As the main representative of both graduate and undergraduate student body for Nuclear Engineering at Penn State. Often offering a plethora of networking and professional developments to all students. The Penn State Student Section works closely with employers to facilitate their recruiting efforts. Allowing many opportunities for our members to network and talk to recruiters exclusively, often before major career events at Penn State. This year while planning the student conference the student section also maintained an active student chapter outside of conference activities.

Outreach is a core piece of the student section's activities. Outreach events often include the use of the Radiation Science and Engineering Center (RSEC) facility which houses the renowned Breazeale Nuclear Reactor. Events such as the RSEC Open House allow student members to engage with visitors from across Pennsylvania and beyond. WSHI (the Westinghouse Science Honors Institute) is a joint RSEC and ANS venture which hosts visiting high school students to perform experiments and workshops demonstrating nuclear science. The culmination of RSEC and ANS collaboration is our Boy/Girl Scouts event, at which scouts can earn the Nuclear Science Merit Badge. With workshops, experiments, and lectures entirely presented by ANS volunteers. Outside of RSEC, the student chapter engages in presenting at other organizations. ANS has also facilitated tours for other student organizations in efforts to interact and build relationships between organizations within the College of Engineering. Together alongside WIN (Women in Nuclear) and INMM (Institute of Nuclear Material Management) our student section has worked to create a unique culture at the Ken and Mary Lindquist Department of Nuclear Engineering at Penn State. Where the Nuclear Innovation Commons student space is used to collaboration amongst peers, and also used as a space to facilitate social events. This year the student section has proudly worked with organizations such as SHPE (Society of Hispanic Professional Engineers), SWE (Society of Women Engineers) and AIChE (American Institute of Chemical Engineers), MEP (Multicultural Engineering Program, and ASME (American Society of Mechanical Engineers) with plans to strengthen our ties to other engineering organizations at Penn State. Many of the inter-org collaborations with engineering societies focus on introducing non-nuclear engineers to ANS and the nuclear industry.

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*: Ethan Kunz, Andre Vidal Soares will graduate this spring semester 2024

Councilor: staffed by Ex-Presidents of the student section. serves as an advisory council to the officer board.

Financial Planning

Student Section Funding

Event Name	Expense
Organization Interest Rate	\$ 15.01
Equipment Rental	\$ 191.00
2024 Conference Registration Reimbursements	\$ 2,025.00
Website Domain	\$ 203.52
Tailgate Spot Rental	\$ 175.00
PSU x Michigan Trip	\$ 6,310.00
Food (General Body Meetings and Events)	\$ 2,108.27
2023 Conference Registration Reimbursement	\$ 135.00
Sub Total Expense	\$ 11,162.80
Contributions	Income
Constellation Contribution	\$ 288.00
UPAC Funding	\$ 5,050.00
ANS National Dues Contribution	\$ 880.00
2014 ANS Student Conference Endowment*	\$ 3,600.00
2024 ANS Student Conference Surplus	\$ 25,000.00
Sub Total Contributions	\$ 34,818.00
	Net Expenses
Balance	\$ (23,655.20)

Table 1.1 Expenses and Contributions

Current Association Student Activities (ASA) Account Balance: \$7,065.00

Expected Association Student Activities Account Balance: \$30,720.20

Expected Department Account Balance: \$2,000

*Yearly contribution by interest occurred from an endowment fund set up from surplus from the 2014 ANS Student Conference

Future Funding Plans

With this upcoming Student Conference being hosted by the University of New Mexico, The Penn State Student Section has taken major initiatives to prepare for this eventual high cost. On average the student section sends around 30 student members to the conference. To continue this high level of involvement, efforts are being made to develop fundraising methods for the student chapter. (See **Section 7**)

1.Public Education:

1.1. Hub Outreach



1.1.1. Open Table

Happening nearly every month, student volunteers go to the HUB student union building to promote discussions about nuclear technology to students at Penn State. Often having many respectful conversations with disagreeing opinions over the past year the student sections has done around 5 of these events.

1.1.2. Atoms for Peace Display



On December 7th, for the occasion of the 70th Anniversary of the Atoms for Peace speech by Dwight D Eisenhower, ANS set up a special booth including free popcorn, television displaying a PowerPoint about the occasion, and rad hunt materials for the student body to interact.

1.2 E-Week Nuclear Night



During the College of Engineering student organized weeklong event “E-Week”. On February 28th ANS hosted an open house for the Breazeale Nuclear Reactor. Open to all Penn State

students. Over 20 students from non-nuclear engineering majors attended and received a tour and a crash course on nuclear science.

1.3 Presentations at Other Organizations



Presentation at the Penn State Meat Science Club General Body Meeting – Showcase the applications of nuclear science and technology in the food and agriculture industry: “Nuclear science and technology applications in agriculture: How Animal and Food Science overlap with Nuclear Engineering?”



In efforts to recruit volunteers for the student conference the student section presented at a general body meeting for ASME, Diversity Round Table and the Multicultural Engineering Programs’ “MEP nights”. Which both include members of SWE, NSBE, SHPE, IEEE, SASE, and OSTEM. In between these two events 60 non ANS members were in attendance. The goal of these efforts was to include and expose non-nuclear engineers to ANS and the nuclear industry.

1.4 RSEC Open House



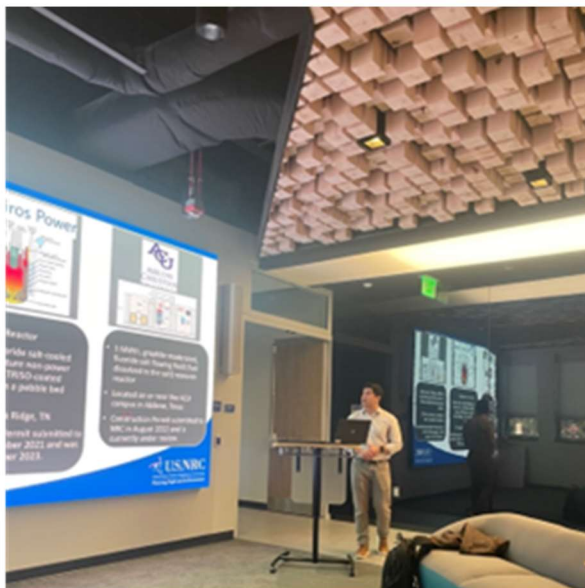
On September 30th ANS student members volunteered to facilitate the parent’s weekend open house event. Giving presentations on research and fun facts about nuclear over 600 visiting family members and students visited the facility and saw the Breazeale Nuclear Reactor.

1.5 Westinghouse Science Honors Institute Event.



Every year the Westinghouse’s Science Honors Institute brings over 50 high school students interested and STEM to the Breazeale Nuclear Reactor. The students receive a full tour and participate in many events to teach nuclear science and the benefits of studying STEM through the lens of nuclear engineering.

1.6 General Body Presentations: NRC



On March 13th, with an attendance of over 40 students attended the 3rd GBM of the semester. Josh Borromeo from the NRC gave insight on new listening methods on future advanced reactors.

1.7 Highschool Outreach

1.7.1. Oakland Mills Highschool



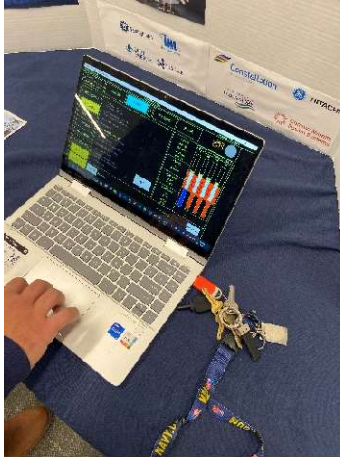
In early January Brandon Castillo at his home high school of Oakland mills in Columbia, MD. He presented to 4 sections of AP physics 1 students. through his previous physics teacher Casey Retterer, Brandon was able to present on nuclear engineering at Penn State, ANS as an organization and college advice to over 50 junior high school students.

1.7.2 Octorara Highschool



In early December, Justin Hays presented to his home high school of Octorara Highschool in Atglen, Pennsylvania. Justin presented to students about the prospects of nuclear technology, and nuclear engineering at Penn State while encouraging students to seek higher education.

1.8. Breazeale Reactor Sim



This year many outreach events included a simulator of the Breazeale Nuclear Reactor. This program created by 1st year PhD student Alex Nellis is able to be run via flash drive and offers users to experience reactor operation aiding in nuclear science education.

2. Community Service:

2.1 Boy Scouts Nuclear Science Merit Badge



Every year the student sections in collaboration with RSEC invites scout troops from the local region, even from Michigan to Virginia. This year over 60 scouts and adults attended the event. In which scouts completed a multitude of activities to earn their nuclear science merit badge.

3.University Service:

3.1. Diversity Round Table



YOU'RE INVITED

2024 Engineering Equity Summit: Resilience

Presented by the Penn State College of Engineering Diversity Student Round Table

Join us to hear from accomplished speakers and panelists on topics of **resilience**, equity and inclusion, and navigating career paths in support of our diverse engineering community. We welcome all students, faculty, staff, and professional attendees in our engineering community.

Questions? Contact Eduardo Granate Rodriguez, associate director for student success at egr27@psu.edu.

Learn more: bit.ly/ees-resilience24

**Saturday, April 6
10:00 a.m. – 3:00 p.m.
Engineering Design
and Innovation
Building**

LEARN MORE AND REGISTER:



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Penn State ANS has made it its mission to continually collaborate with other engineering organizations on campus. Meeting bi-weekly the student section works with other student chapters of national engineering organizations and societies. These collaborations are to contribute to the yearly *Engineering Equity Summit*. Which focuses on DEI efforts and topics in engineering and STEM.

3.2 SWE involvement fair



Alongside WIN, ANS was invited by SWE to an organizational involvement fair for incoming freshman students. During their new student orientation (NSO) women interested in STEM and engineering are encouraged to attend between their other activities during organizations on campus. In total 7 WIN and ANS members were present at the booth to talk to new students. 100+ people including families attended this event.

4. Professional Development:

4.1 PSU NUCE Student Scholarship

Within our efforts to seek sponsorships and networking with companies in the nuclear industry, the club created a new type of scholarship in the form of a company-sponsored award. The documentation of this scholarship is in the final stage of development and will be sent out to companies in the next semester. Find below the purpose chapter of the award documentation: “The purpose of the Company Sponsored 2024 PSU ANS Award Program is to incentivize students to continue their studies in the nuclear engineering discipline, promoting the benefits of nuclear science and technology and its application in society, such as nuclear power, nuclear medicine and other applications in industry and agriculture.”

4.2. Site Tours

4.2.1 Energy Solutions/Constellation Three Mile Island



On April 26th conference organizers who were unavailable to attend site tours, were granted an opportunity to visit and tour Three Mile Island. 15 student section members apart of the conference committee attended.

4.2.2 Westinghouse's Waltz Mill



On November 30th, in Collaboration with Dr Nieto Perez. 12 first year nuclear engineering students enrolled in the nuclear engineering first year seminar course, and 6 ANS student members attended a site tour of Westinghouse's Waltz Mill

4.2.3 Peach Bottom Atomic Power Station

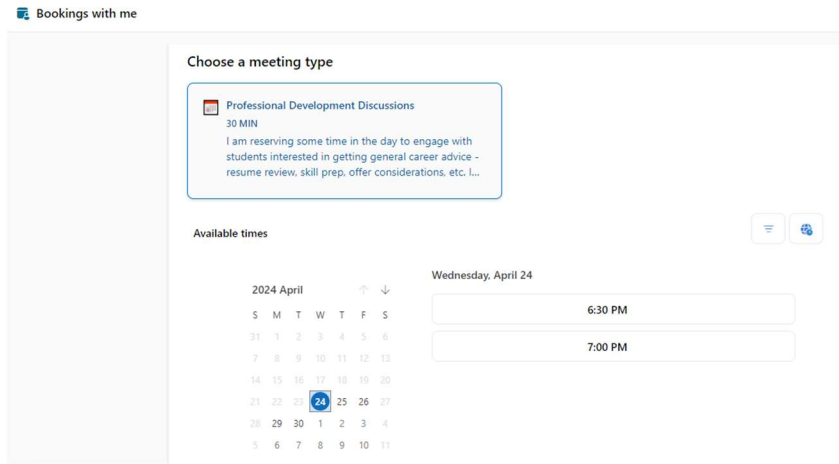


On March 15th, 8 Student section members attended a tour at the Peach Bottom Atomic Power Station.

4.3 Peer Reviews / Presentation Dry Runs

The chapter called on all department students presenting at the 2024 ANS Student Conference to dry run their work and receive feedback from peers and faculty members. We were able to schedule 2 days for students to come and present their work, 3 faculty members joined and provided valuable feedback. This event was fundamental for students to gather insights into their presentations and their research. As a result, over 10 Penn State students were awarded the best presentations in their respective sessions at the conference.

4.4 Resume, and Career Advice Office Hours



Individual professional development meetings were offered to members to discuss their career opportunities and review resumes. Members could reserve time to talk with the professional development chair through Microsoft Bookings.

4.5. Student Chapter LinkedIn

A strong LinkedIn presence has been crucial for organizations to connect with their target audience and stay relevant. Recognizing this, our professional development chair, Carolina, has created a unique LinkedIn page for the ANS Penn State Student Section, including a custom logo, inspired by the success of the ANS Student Conference's LinkedIn page.

Post title	Post type	Audience	Impressions	Views	Clicks	CTR	Reactions
<p>We are excited to announce some details of three technical workshops focused on...</p> <p>Posted by Carolina Bourdot Dutra</p> <p>2/20/2024</p> <p>Get more engagement Boost</p>	Image	All followers	3,359	-	140	4.17%	81
<p>We are honored to announce that Dr. Kathryn Huff and Lisa Marshall will deliv...</p> <p>Posted by Carolina Bourdot Dutra</p> <p>2/26/2024</p> <p>Get more engagement Boost</p>	Image	All followers	2,353	-	57	2.42%	51
<p>New device positions Penn State at the forefront of university research reactors</p> <p>Posted by Carolina Bourdot Dutra</p> <p>3/20/2024</p> <p>Get more engagement Boost</p>	Article	All followers	975	-	27	2.77%	33
<p>We are officially one week away from the 2024 ANS Student Conference! This yea...</p> <p>Posted by Carolina Bourdot Dutra</p> <p>3/28/2024</p> <p>Get more engagement Boost</p>	Video	All followers	1,557	1,471	45	2.89%	38
<p>🌟 Radiant Women in Nuclear: Lunch and Learn 🌟 Join us for an inspiring event...</p> <p>Posted by Carolina Bourdot Dutra</p> <p>4/6/2024</p> <p>Get more engagement Boost</p>	Image	All followers	2,299	-	85	3.7%	50

Statistics on different types of posts in the ANS Student Conference page

The purpose of our LinkedIn page is to:

- Share our section's activities and achievements.
- Highlight cutting-edge research conducted at Penn State
- Gain visibility among industry professionals and potential collaborators.
- Connect with the wider industry and national laboratories.
- Create opportunities for collaboration, internships, and career development for our members.

Our new LinkedIn page is a strategic tool that will enable us to expand our reach, engage with our target audience, and establish valuable connections within industry and national labs. We are excited to leverage this platform to its fullest potential and see the positive impact it will have on our section's growth and success.



Screenshots of the ANS Student Conference and the recently created ANS Penn State Student Section LinkedIn page.

4.6 Reverse Career fair

5. Industry/National Support: 2024 Student Conference

Penn State University had the honor of hosting the ANS Student Conference this year, a culmination of two years of dedication and hard work by Penn State undergraduate and graduate

students, all of whom are ANS members. The student organizers took on the immense responsibility of planning and executing every aspect of the conference, demonstrating their exceptional leadership, organizational, and collaborative skills. They had to tackle a wide range of tasks, from securing over \$300,000 in sponsorships from various companies and national laboratories to handling the complexities of reserving hotels, buses, and venues for dinners. The students also organized engaging panels, tours, technical sessions, and workshops, ensuring a diverse and enriching experience for all attendees.

Their tireless efforts resulted in a successful conference, attracting over 500 students from across the United States. The ANS Student Conference at Penn State provided a platform for students to engage with one another, learn from industry experts and academics, and form lasting connections that will undoubtedly shape their future careers in the nuclear engineering field.

As ANS members, the student organizers exemplified the society's commitment to advancing nuclear science and technology, promoting education and professional development, and advocating for the peaceful use of nuclear energy. Their successful organization of the ANS Student Conference at Penn State serves as a testament to the strength and vitality of the ANS student community. A few of the events from the conference will be highlighted in this section.

5.1 Radiant Women in Nuclear

During the ANS Student Conference on Saturday, April 6th, we hosted a highly successful Lunch & Learn event titled "Radiant Women in Nuclear". This event was a collaboration between the Engineering Equity Summit, the Women in Nuclear chapter at Penn State, and our student section. We received sponsorships from Radiant, the M&C Division and the College of Engineering.

The goal of this event was to bring together prominent women from across the nuclear industry to share their stories, experiences, and insights as leaders in nuclear engineering and science, inspiring the next generation of women in the field. We were privileged to have an impressive lineup of speakers, including:

- Kathryn Huff (Assistant Secretary for Nuclear Energy - US DOE)
- Lisa Marshall (VP/President-elect - American Nuclear Society)
- Mary Jane Ross-Lee (Deputy Director of the Division of Safety Systems - US NRC)
- Maria Korsnick (CEO/President - Nuclear Energy Institute)
- Tonya Peebles (Dean of the College of Engineering - Penn State University)

The attendees had some time to eat and then each speaker shared their personal stories, followed by an open Q&A session. The event was a resounding success, with over 200 attendees participating in the engaging discussions and learning from the inspiring stories shared by our esteemed speakers.

The "Radiant Women in Nuclear" Lunch & Learn not only celebrated the remarkable accomplishments of women in the nuclear field but also provided a platform for fostering

connections, mentorship, and support among professionals and students alike. We are proud to have organized such an impactful event and look forward to continuing our efforts in promoting diversity, equity, and inclusion within the nuclear industry.



Photos taken before and during the "Radiant Women in Nuclear Lunch & Learn"

5.2 Workshops

The ANS Student Conference featured a series of successful workshops, both technical and non-technical, designed to prepare and train nuclear engineering students for the diverse job market, including industry, regulatory agencies, national laboratories, and academia. These workshops provided attendees with valuable insights, hands-on experience, and the opportunity to learn from experts in their respective fields. Some of the workshops are being highlighted here.

5.2.1 OpenMC

The OpenMC workshop, led by Prof. April Novak from the University of Illinois Urbana-Champaign (UIUC) and Argonne National Laboratory (ANL), was an engaging and hands-on event held on Thursday afternoon of the ANS Student Conference. The workshop, which attracted

70 attendees, aimed to introduce participants to the powerful, open-source Monte Carlo software, OpenMC, and its applications in nuclear engineering research.

Prof. Novak, an expert in multiphysics methods, multiscale thermal hydraulics, Monte Carlo transport methods, reactor design and analysis, and high-performance computing, guided participants through a step-by-step process of using and working with OpenMC. The workshop was designed for attendees with no prior experience using the software. In addition to Prof. Novak's instruction, one of her students showcased the application of OpenMC in their research, providing attendees with a practical example of how the software can be utilized in real-world scenarios.

By the end of the workshop, participants gained an understanding of OpenMC's capabilities, the fundamentals of the Monte Carlo method, and hands-on experience in modeling a pin cell and BWR example.



OpenMC workshop lead by Prof. April Novak and its attendees

5.2.2 MOOSE

On Thursday morning of the ANS Student Conference, we hosted a highly engaging and informative MOOSE (Multiphysics Object Oriented Simulation Environment) workshop. The workshop, led by Dr. Joshua Hansel from Idaho National Laboratory (INL), attracted around 60 students eager to learn about this powerful open-source finite element framework.

MOOSE has become an essential tool in the nuclear industry, enabling engineers and researchers to develop sophisticated models and Multiphysics simulations of nuclear reactors, including several aspects from the neutronics, thermal-hydraulics, and fuel performance. Throughout the workshop, participants engaged in hands-on exercises and examples, gaining practical experience in creating simple models using the classes available in MOOSE's library. The workshop was aimed at attendees with no prior experience using MOOSE, and it provided participants with a solid foundation in using MOOSE and creating their own MOOSE-based applications.

The workshop also featured a special contribution from Mike Shockling, a representative from Westinghouse, who shared insights into the applications of MOOSE within the nuclear industry. This real-world perspective highlighted the importance of MOOSE in addressing complex challenges faced by the industry when modeling advanced reactor designs.



MOOSE workshop lead by Dr. Joshua Hansel (left), and Mike Shockling (WEC) showing MOOSE applications in the industry

5.2.3 Policy and Advocacy

The Policy & Advocacy Workshop held at the American Nuclear Society's Student Conference proved to be a well-structured and insightful event. Moderated by Jessi Altiero, the workshop featured a dynamic interaction among panelists Emma Houston, Khalil Ryan, Natalie Houghtalen, and Professor Hannah Wiseman, who brought diverse perspectives from their respective fields. The session focused on the integration of nuclear energy into clean energy policies, discussing legislation like the Bipartisan Infrastructure Law and the Inflation Reduction Act.

Panelists answered questions ranging from how students can aid clean energy policies, ways for non-nuclear students to engage with nuclear issues, to the specifics of policy advocacy at different governmental levels. The discussion also touched on effective communication strategies with policymakers and the public, emphasizing the need for clear understanding and involvement in policy-making processes. Key issues like the role of nuclear energy in reducing carbon emissions and its symbiotic relationship with environmental protection legislation were elaborated, aiming to equip attendees with a comprehensive understanding and advocacy tools for nuclear energy's role in achieving Net Zero goals. The workshop succeeded in fostering a nuanced appreciation of nuclear energy's benefits and challenges within the broader clean energy landscape.

5.3 The Penn State Radiation Science and Engineering Center Open House

The Penn State Radiation Science and Engineering Center (RSEC) hosted over 200 students attending the ANS Student Conference, in an open house format, including student operators from other University-based research reactors! During the tours, the students could see what the

Breazeale Reactor and the other labs in RSEC offer and look forward to collaborating with other guests soon.



Students at the RSEC entrance and near the Breazeale Reactor core

5.4 2023 Winter Meeting



During the 2023 Winter Meeting several Penn State students attended to not only present technical material but also network with professional chapters of ANS to fundraise and raise awareness about the upcoming 2024 student conference.

6.Social Events:

6.1. PSU ANS Bowling



On March 29th, ANS hosted a bowling night at a local bowling venue, around 15 student members attended and enjoyed socializing and food.

6.2. Atoms for Peace Social

JOIN US



**70th Anniversary
Celebration!**

**Friday 12/8/23
9pm**

348 Blue Course Dr
Building 3
Apt 148

$\rho R = \left(\frac{A}{Z}\right) m g(v_0)$



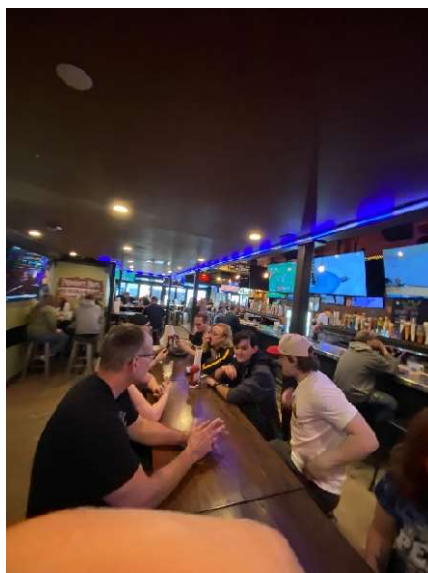
In celebration for the 70th anniversary of atoms for peace a social was held at the home of a student member.

6.3 Penn State x Michigan ANS Trip



On the weekend of Jan 13th, 24 PSU student section members traveled to the University of Michigan Ann Arbor. We were welcomed by the UMICH Student of ANS where through a multi-day event participated in socials and workshops

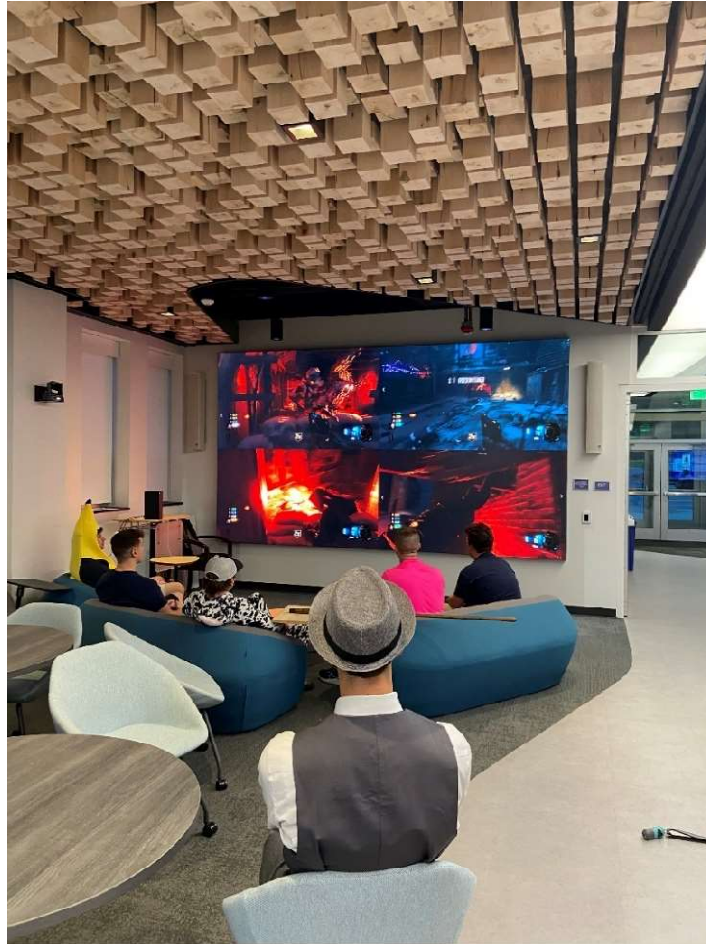
6.4 End of Semester Barcrawl



Per Penn State NUCE tradition, the semester was capped off by an end of semester Barcrawl. Over 20 NUCE students participated in the SP 2024 crawl lasting 9 hours.

6.5. Gaming

6.5.1. Halloween Spooky Night



On October 28th ANS hosted a Halloween social. This allowed people to have snacks and played video games before they would go out for evening festivities. Around 15 members in costumes attended.

6.6 End of Semester Potluck



In yearly on December 7th in collaboration with Women in Nuclear (WIN), Institute of Nuclear Material Management (INMM) student chapters, a potluck was held in the nuclear innovation commons. Around 25 people attended. Including students and faculty

6.7 Staff Appreciation Day



Due to their efforts during the student conference, student section members organized a surprise lunch for the staff on April 24th. With members bringing food in the form of a potluck. Around 30 people attended including staff, faculty, and students.

6.8 Blue and White Game Tailgate



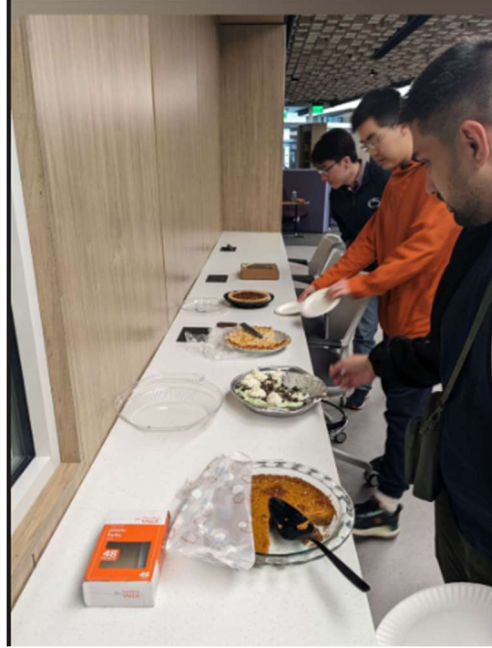
On April 13th, in a post-conference celebration members of the conference committee organized a tail gate for Penn State's "Blue and White" spring football game. Due to the recent release of the *Fallout* tv show, the student section members decided to raise the banner of the NCR. Around 15 members attended this event.

6.9 Conference Bar Crawl



During the student conference hosted at Penn State the ANS chapter facilitated a Bar Crawl. Below is a picture before the bar crawl where students from the conference met up to mingle. This allowed students from all over the country to meet in a less formal environment.

6.10 Pie Day!




In celebration of PI day, on March 14th ANS organized a potluck style pie competition in collaboration with INMM and WIN, with 4 pies submitted a judging panel consisted of faculty and students agreed on a winner.

7. Section Management:

7.1. Student Organization Prospectus


This year, the professional development chair of the chapter developed a club prospectus, which main objective is to summarize our goals and activities and present them to potential stakeholders to come to Penn State and present their activities during our club meetings. The participation of companies and other institutions in our general body meetings were set as part of a sponsorship package that contains, initially, three different levels. With the sponsorships, our club benefits from a broader spectrum of activities given the funds provided by the interested stakeholder. For this preliminary benefits package developed, the club seeks companies, institutions or individuals looking to not only present at our GBMs, but also sponsor the production of personalized merchandise for our club, including their respective logomarks. Furthermore, we are also seeking a partner to sponsor our newly created sponsorship briefly described in Section 4. The prospectus was first presented at the Engineering Reverse Career Fair at Penn State during the Spring 2024 semester.



American Nuclear Society

The purpose of the Penn State Chapter of the American Nuclear Society is to provide students interested or involved in the fields of nuclear science, technology, and/or engineering a means for professional development and networking and to contribute toward the development of these fields through activities in which student members and faculty may participate.

The club attained official recognition from the University in 1999. Celebrating its 25 years of existence, the Penn State Chapter of the American Nuclear Society is honored to once again assume the role of host for the ANS Student Conference in 2024. The chosen theme for this significant event is "Keystone of Tomorrow," symbolizing the potential of nuclear energy to play a pivotal role in addressing climate change and ensuring dependable access to energy.




The Penn State Student Section of ANS is an official local section of the American Nuclear Society, a national organization whose main mission is to promote the advancement of science and engineering relating to the atomic nucleus, and of allied sciences and arts.

The ANS Student Chapter serves as a liaison between student members, the Ken and Mary Alice Lindquist Department of Nuclear Engineering, the College of Engineering, ANS National, corporate representatives, and other organizations, leveraging these relationships to encourage student participation in research related to nuclear science. Often this will amount to providing students access to nuclear-related meetings for the presentation and discussion of scientific and technical papers, especially at the ANS Student Conference. Another key aspect of our chapter of ANS is community outreach, providing young people access to an industry that can seem opaque to those outside of it. The section encourages networking within the organization and continues to establish member relationships across organizations at Penn State and in the nuclear community.


Our roster currently has 64 active members. Any graduate or undergraduate student at Penn State can join ANS. Although nuclear engineers make up a large percentage of the general body, the chapter is open to anyone passionate about the use of nuclear technology, regardless of their discipline. General body meetings are held monthly in the Fall and Spring semester, in which members convene to socialize and receive updates from the student chapter. Food and refreshments are provided to all attendees, regardless of their membership status. This approach to meetings has allowed a great community and culture to grow among attendees.

Our current executive board comprises of 10 students who hold positions of president, vice-president, treasurer, secretary, event planner, technical director, outreach and social chairs, and professional development chair. More information are available in our website www.psuans.com.


RECENT ACTIVITIES



Technical tours



Engagement with other ANS chapters (UMich visit)




Conference meetings

TIERS AND BENEFITS


To help us accomplish our goals, sponsorship packages are available in the following forms:

	Gold \$1,000	Silver \$500	Bronze \$200
Presentation at GBM			
Sponsor logo in next clothing drop			
Company-sponsored Award			




American Nuclear Society Student Conference
April 4-6, 2024 | Penn State University

MEET THE PRESIDENT



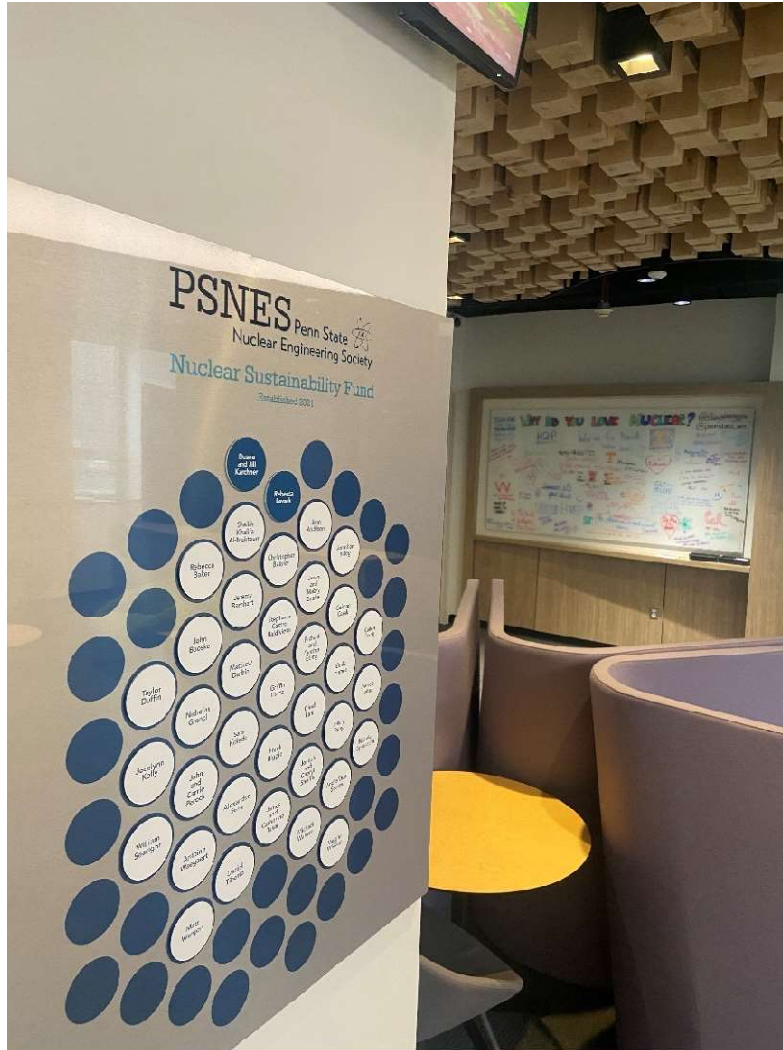
Brandon Castilla is a 3rd year majoring in nuclear engineering. While growing up and being obsessed with sci-fi media after seeing many cool spaceships and future technologies he became convinced that nuclear power is the way forward for humanity. Fun Fact: for the first time in his life, during the summer he traveled to Europe and visited Vienna in Austria.



American Nuclear Society
Pennsylvania State University

7.2. PSNES Revitalization

The ANS chapter at Penn State is trying to reconnect with the Alumni organization for the department of nuclear engineering – the PSNES (Penn State Nuclear Engineering Society). Our last meeting with PSNES was in Summer 2023, when we had the opportunity to pitch about the 2024 ANS Student Conference and receive support from the board. The ANS chapter board is currently developing a renovated mentorship program proposal for PSNES and will present it to them in the next executive board meeting. Tentative engagement by email was made to receive feedback on the first draft of the renewed program, but with no success. In-person communication with PSNES members during the 2024 ANS Student Conference brought to our attention that a new PSNES board will take place in the following months, so we expect to communicate with officers whenever the new roster takes over the society’s board.



7.3 Nuclear Innovation Commons Makr Space

Very Recently ANS-PSU has worked with the Nuclear Engineering department to secure a room to call our own. The room is located inside Hallowell, which is the Nuclear Engineering department's main building. The room is currently barebone as the procurement happened near the end of the spring 2024 semester however plans have been made to outfit this room with: swipe access, desks, shelves, printer, and other pieces of equipment that will serve the ANS chapter well.



7.4 Faculty-Student Org Communication

The ANS student section alongside WIN and INMM have established a monthly meeting with the department staff, encouraging communication and collaboration. This has manifested in improving faculty attendance at student events. With advisors and other professors eagerly being involved within student life outside of the classroom.



8. Event Matrix

Date	Event Name	Attendance	Event Type
9/23/2023	Involvement Fair	>40 Interactions	Recruiting
8/30/2023	GBM#1 FA23	~50	Meeting
9/27/2023	WEC GBM#2 FA23	~40	Meeting
9/30/2023	RSEC Open House	>600 Interactions	Outreach
10/13/2023	UMASS Tailgate	~15	Social
10/25/2023	Framatome GBM#3 FA23	~40	Meeting
10/28/2023	Spooky NUCE event	~15	Social
11/29/2023	GBM#4 FA23	~40	Meeting
11/30/2024	Waltz Mill Tour	18	Tours
12/8/2023	Atoms for Peace Events	~20 Outr/ ~15 Social	Outreach & Social
1/10/2024	GBM#1 SP24	~40	Meeting
1/13-1/15/2024	PSUXUMICH ANS Trip	24	Social/Outreach
2/3/2024	WSHI Event	~50 Interactions	Outreach
2/11/2024	GBM#2 SP24	~40	Meeting
2/28/2024	Nuclear Night/Eweek	~20	Outreach
3/13/2024	NRC GBM#3 SP24	~50	Meeting
3/14/2024	PI Day!	~20	Social
3/15/2024	Peach Bottom Tour	8	Tours
3/16/2024	Boy Scouts Event SP24	~60 Interactions	Outreach
3/28/2024	SWE Inv. Fair	~100 Interactions	Outreach/Recruiting
3/29/2024	ANS Bowling	15	Social
4/4-4/6/2024	ANS Student Conference	70	Volunteers/Attendees
4/10/2024	GBM#4 SP24	~50	Meeting
4/13/2024	Blue&White Tailgate	~15	Social
4/26/2024	TMI Tour	15	Tours
4/27/2024	End of Sem. Barcrawl	20	Social

Note: Events included are ANS sponsored events that were open to all. Officer Meetings, Outreach Committee, individual outreach efforts, conference committees meetings are omitted from this Matrix. Officer Meetings occur 1 week before and after every general body meeting. Conference Committees were weekly with sub committees having their own weekly meetings throughout the past two semesters.

Terms

GBM = General Body Meeting NUCE = Nuclear Engineering

FA23 = Fall Semester 2023 Sem. = Semester

SP24 = Spring Semester 2024 Outr. = Outreach

Inv. = Involvement Eweek = Engineering Week