

# Glasstone Award MS&T



The Missouri University American Nuclear Society Student Section has surpassed its own expectations in the academic year 2009-2010. Some of the highlights were outreach events with the boy scouts and the science center, a touring program to nuclear facilities, and a diverse group of speakers to explore the many different fields of nuclear engineering.



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**A. Application Letter from Vice President**

As, the president of the Missouri University of Science and Technology’s (MS&T) American Nuclear Society (ANS) Student Chapter, I am honored to have had such a rewarding year experiencing all the opportunities that have been afforded to the students as a direct result of the effort of this chapter. Many new ideas were implemented for this chapter and the dedication by many of the members has really shown that this chapter has untapped potential. They have put forth the effort in maintaining their duties as students, family members, and as an organization while still managing to help others in a variety of different ways. This year has been one of the most active years for this section and it has resulted in opportunities for every student in some fashion. Withstanding the changes that occur in the department as often as they do, the students have not lost their focus. They have an excellent advisor, who has played a significant role in keeping the chapter abreast of current events and opportunities and has suggested future relationships with speakers and employers. This year, as will be seen in the following report, has been the most diverse experience for the chapter as well. I appeal to the committee that this school be considered for the Glasstone Award for the year of 2009-2010 for its efforts and success at becoming an outstanding chapter that can be looked at as an example to smaller schools and smaller ANS sections.



## **B. Officers Positions**

### **President**

The president for the 2009-2010 academic school year was Devin Worstell. Devin is an engineering student working on his bachelor's in nuclear engineering. Devin is involved in several other organizations on campus and keeps a very active calendar. He educated himself in many of the different aspects of the student life requirements and his primary role in the ANS organization was to make sure that the organization was following procedure during meetings, following campus guidelines for all the functions that the group wanted to participate in, and overseeing all other officers.

### **Vice President**

The vice president for the 2009-2010 academic school year was Shannon Stacy. Shannon is an engineering student working on her bachelor's in nuclear engineering, criminal justice, chemistry, and a minor in mathematics. She is also working on her master's in Intelligence at the American Military University. Shannon is very active in many other organizations as well as many national nuclear organizations. She is responsible for speaking events, career opportunities, relationships with other organizations, attending the student section committee meetings, and many other minor details. She also must operate meetings if the president cannot attend the meeting.

### **Treasurer**

The treasurer for the 2009-2010 academic school year was Christopher Crooks. Chris is an engineering student working on his bachelor's in nuclear engineering. He has been a vital role in the organization and is responsible for the ANS budget. He coordinates fundraising of the T-Shirt's of which is the major fundraiser for the organization. He is also responsible for maintaining the records and turning in the annual report. He also maintains donations made from outside companies and coordinates our biannual highway cleanup.

### **Secretary**

The secretary for the 2009-2010 academic school year was Amanda Merriken. Amanda is very active on campus. She is involved in helping the community on campus and has been the person that makes sure the organization and the students in the department are informed on what is taking place throughout the year. This includes sending out updated agenda's and minutes from the meeting. She maintains the listserv data base of students who are members and is responsible for adding all points of discussion from the other leading officers to the agenda.



### *Social Chair*

The social chair for the 2009-2010 academic school year was Bradley Richardson. Brad is a graduate student in engineering working on his master's in nuclear engineering. Brad was in charge of keeping up the moral of the organization and setting up social events that might attract new members.

### *Outreach Chair*

The outreach chair for the 2009-2010 academic school year was Lucas Tucker. Lucas is a graduate student in engineering working on his master's in nuclear engineering. Lucas was in charge of setting up events that would increase the enrollment of the department or organization and would educate different areas of the public on engineering and sometimes nuclear specific issues.

### *Historian*

The historian for the 2009-2010 academic school year was Daniel Kreis. Dan is a graduate student in engineering working on his master's in nuclear engineering. He previously finished up a bachelor's in physics and came to the department last year. He is in charge of photographing and documenting the activities of the chapter throughout the year. He also is in charge of publishing in some fashion the activities and accomplishments of the chapter and its members.

### *Webmaster*

The webmaster for the 2009-2010 academic school year was Jeffery Whited. Jeff is an engineering student working on his bachelor's in nuclear engineering. Jeff has incorporated the help of upcoming freshmen and sophomores to update the ANS website for our school. He has used the opportunity to recruit new members and get them involved in the activities of the organization. He is responsible for making sure the website is updated and that it reflects the activities of the members and organization as well as portray important information that might be useful to the users.

### *Corresponding Secretary*

The corresponding secretary for the 2009-2010 academic school year was Savannah Avgerinos. Savannah is an engineering student working on her bachelor's in nuclear engineering. Savannah is responsible for checking the chapter mailbox and informing members or officers of important information.



### **Public Information Officer**

The public information officer for the 2009-2010 academic school year was Andrew Fallgren. AJ is an engineering student working on his bachelor's in nuclear engineering. He was responsible for educating the chapter on new upcoming news in the nuclear related areas. He was responsible for pulling important stories from various websites, sources, and magazines to keep students informed on development of the nuclear industry.

### **Reactor Liaison**

The reactor liaison for the 2009-2010 academic school year was Warren Vaz. Warren is a graduate student who is working on his master's in nuclear engineering. He was responsible for any tours that needed to be coordinated at the MS&T Research Reactor (MSTR) for speakers and VIP's that came to campus.

### **Student Council Representative**

The student council representative for the 2009-2010 academic school year was Matt Crinnian. Matt is an engineering student who is working on his bachelor's in nuclear engineering. He is responsible for making sure that the organization is represented at all campus wide society meetings. He also is required to attend the budget meetings that details what each organization on campus is requesting funding for. He informs the organization of any important campus events and opportunities.

## **C. Meetings**

There are two different types of meetings that are held for this organization. The executive officer meetings were held every Tuesday before the biweekly Thursday meetings. This was to prepare an agenda for the upcoming meeting and to discuss any important issues that might be outstanding. During the meetings, fundraising ideas, outreaching ideas, and travel were discussed. The organizational meetings were held every other Thursday. During these meetings the agenda would be reviewed and minutes would be voted in. After minutes were accepted, new item issues from each of the officer's positions were discussed. The meetings were used to invite speakers and to discuss organizational activities and commitments.



#### **D. Goals and Tasks**

The first goal of this organization was to achieve good standing amongst that SSC at the national level. This organization while active in some fashion had decreased its involvement in the last couple of years and was losing its member. Members felt that there was no benefit of joining such an organization and quit going to the meetings and volunteering for different activities. After some members attended a national meeting and the student conference, they saw the benefit of having an active section and noticed the educational and employment benefits of being associated with such a respectable organization. Since that time, the organization has set out to become more active and set an example for smaller schools. The size of the nuclear department is one of the smallest in the nation but the aspiration of the students enabled them to reach for the opportunity of showing its competitiveness and its desire to excel not only for the benefits of the students involved but for those that they come into contact with on an everyday basis.

A second goal for this organization was to increase its membership amongst the freshmen and sophomore classes. With history of having primarily juniors, seniors, and graduates as active members, there was always a breakdown in communication between each year on what was expected from the students and from the organization. The vision of having a diverse participation was imperative for the survival of the organization and for it to serve its purpose to the student body.

A third goal of the organization was to host the student conference one day. In order to do this, the group realized how important it was to increase its activities in several different areas to gain the experience that was necessary and to increase the bonding between the members.

A fourth goal was to bring in more speakers to the department than had been in the past and to increase the diversity of such speakers.

A fifth goal was to increase the relationships of employers in the nuclear industry and our nuclear department to ensure that all of the graduates have opportunities when they graduate.

A sixth and final goal was to reestablish our student website so that it would be more informational to prospective individuals and be a resource for ANS members.



### ***E. Fundraising***

Recognizing that importance of funding and how it will allow for more participation in outside activities, the organization has set out to be involved and active in raising funds for the students to attend different events. These events are listed:

- **Pizza Inn Fundraiser – Organized By Shannon Stacy, Vice President.** This fundraiser consists of members volunteering their time at the local Pizza Inn restaurant to raise money for various functions. This year the money was to support travel for 8 students to attend the 2009 Winter ANS National Conference in Washington D.C.
- **T-Shirt Fundraiser – Organized by Chris Crooks, Treasurer.** This fundraiser consists of a design competition amongst its members. All interested parties design a T-Shirt for our organization and the winner of the design earns a free T-Shirt. These funds are used to fund various events. This year the funds were split to help fund travel to the ANS National Conference in November 2009, food and drinks for various meetings and speaking events, Christmas cookout, and the recruitment picnic.
- **Pancake Breakfast Fundraiser – Organized by Shannon Stacy, Vice President.** This fundraiser was set up specifically for the ANS Winter National Conference travel. Although the fundraiser proved to be a little difficult, it still contributed funds to the event.
- **Dues – Organized by Chris Crooks, Treasurer.** Dues are collected from members each semester at an amount of \$5.00 dollars or \$10.00 a year. This money is used as security for any emergency events such as an unexpected speaker, travel requests by the group members, or social events.
- **Donations – Organized by Dr. Castano, Advisor.** Donations are occasionally given to the organization from outside organizations. This year, a donation from Areva Corporation was given to the student chapter.



## **F. Department Involvement**

It is essential in every organization that the department that the organization is attached to be involved in some way for the success of the organization. Our department has been essential in the success of the chapter this year.

- Our department head, Dr. Kumar, has donated funds to many different events that the students in the chapter have attended. He helped with the travel to the ANS National Conference, the travel to the ANS Student Conference, the attendance of one of the students to a non-proliferation workshop, and luncheons for important speakers.
- Dr. Castano, our advisor, has been vital in keeping the officers of our chapter informed on upcoming events in the nuclear industry. He has passed on opportunities that can be achieved by the students, contacted employers as possible future speakers, and offers advice on matters that the students may not be experienced at handling. He has played the role of not only an advisor, but as a friend and mentor. He has assisted in our tours for invited personnel by giving a tour of his radiochemistry labs.
- Dr. Usman, a nuclear professor in our department, has been essential at helping students with nuclear issues and has been a resource in nuclear matters. He has assisted in our tours for invited personnel by being available to give tours of his radiation and detection labs.
- Dr. Lee, a nuclear professor in our department, has also been essential in answering nuclear related questions for the students and has been a resource for nuclear matters. Dr. Lee is our newest professor and has jumped right to being a cohesive part of our chapter's success.
- Dr. Mueller, a nuclear professor in our department, has been an intricate resource for all the nuclear students regarding nuclear matters. He has assisted us in our tours for invited personnel by being available to give tours of his two phase flow labs and other nuclear equipment.
- Bill Bonzer, our reactor manager and senior reactor operator and all his staff have been a major part of our success as they have been inconvenienced many times at the last minute in order to allow personnel to tour our nuclear research reactor.
- Other faculty has contributed by either leaving behind ideas and advice for the student chapter or is adjunct faculty that has contributed to the gain of the organization in some manner. These would be Dr. Jeffrey King, past advisor and adjunct faculty and Dr. Shrestha, adjunct nuclear faculty



## **G. Professional Development**

An important aspect that our organization has tried to improve upon is our professional development for the benefit of its members. We have had a tremendous year that has been filled with many opportunities for the nuclear students.

- **Career Opportunity Center – Organized By: Shannon Stacy, Vice President.** We started off our year with a speaker from the career center that discussed many important factors about resumes, job searching, and presentation at career fairs. They discussed the do’ and don’ts of college students in their endeavor’s to find the right job.
- **Career Fair – Organized by Campus and Shannon Stacy, Vice President.** The career fair is a campus wide event that shares the interests of different engineering fields. The ANS chapter wanted to find a way to attract more nuclear related industries to their campus. A nuclear job fair was created a few years back and the section decided to try it once more. There were a total of 8 companies that participated this year. An accomplishment that came out of this dialog was the establishment of relationships between employers and MS&T. A central location was created where job opportunities would come in and be passed on to interested students. A database of resumes was also created and will be used in the future for students to communicate with future employers.
  - Palo Verde Nuclear Power
  - KAPL
  - Exelon
  - Ameren
  - Wolf Creek Nuclear Power Company
  - Nuclear Regulatory Commission
  - EPA
  - Omaha Nuclear Power Company
- **“A day in the Life of a Legacy Engineer”, Arizona Public Service Company, Palo Verde, Mike Radoccia – Organized by Shannon Stacy, Vice President.** APS came and talked to the students about working for the utility industry at their company. He described the different aspects of an engineer in the legacy program that they have developed.
- **“Opportunities at Ameren”, AmerenUE, Matt Arri – Organized by Shannon Stacy, Vice President.** Matt came to campus to talk to the students about the many opportunities that the nuclear power plant at Callaway has to offer. He described the different aspects of the company and what an engineer path would look like from both the engineer standpoint and the operator standpoint.

- **“Engineer Opportunities at Exelon”, Exelon, Tricia Mattson – Organized by Shannon Stacy, Vice President.** Exelon discussed the many locations that they owned and how the experience of the nuclear engineers was vital to the success of the company. The opportunities at the company were discussed as well as different tasks the engineers might have in the utility field.
- **“Opportunities with Energy Future Holdings/Luminant”, Alison Mellon – Organized by Shannon Stacy, Vice President.** Alison described the company Energy Future Holdings/Luminant and its ties to both coal and nuclear. She discussed the different opportunities that students might have working for their company.
- **General Power Plant Battery Testing Opportunity, Ameren, Matt Arri – Organized by Ameren and Shannon Stacy, Vice President.** This was an opportunity for those that might be interested in the utility industry to take the GPPB test and see what it was like. This testing event was not a practice test and the results are in the permanent records of all those that took that test. All students from MS&T passed the battery test. This was one more opportunity for the students to gain experience for future employment.
- **“Navy Propulsion Program”, US NAVY, Chief Monsees – Organized by US Navy and Shannon Stacy, Vice President.** This event is one of our annual events every year. The US Navy and the nuclear department have had a long outstanding relationship and the department has had 1-2 students a year join the Nuclear Navy Propulsion program or have students employed at Bechtel upon graduation where they become civilian instructors for the US Navy.
- **“State of Nuclear Energy in the World”, ANS President, Thomas Sanders – Organized by Shannon Stacy, Vice President.** This was one of our most spectacular events all year. The students had the rare opportunity to have a personal visit from the ANS President. Dr. Sanders was given a tour of the entire nuclear department and its facilities, had a chance to meet key personnel from MS&T, and delivered a powerful presentation to the faculty and students. He also met with the officers of the three nuclear organizations.
- **“EMP on Nuclear Forensics”, Office of Deputy Assistant to Secretary of Defense for Nuclear Matters, Dr. Kuspa – Organized by Dr. Castano, Advisor and Shannon Stacy, Vice President.** Dr. Kuspa was another highlight speaker for the year and gave a presentation on many different items related to nuclear weapons. He was one of the diverse speakers that the organization utilized to expand the knowledge of the various nuclear related jobs that are available in the nuclear industry.
- **“NEUP”, DOE, John Gilligan – Organized by Dr. Kumar, Department Chair of Nuclear.** This was another avenue to help the students in their search for opportunities. With having speakers from the utility side, the government side, the private sector, and now from an educational aspect, the students were being exposed to all different opportunities that are available upon graduation.
- **Nuclear Expo – Organized by Shannon Stacy, Vice President.** This was a new event this year. This event

was a 4-6 hour presentation workshop, where students had the opportunity to attend a presentation that described every possible employer that was related to nuclear, the job opportunities that they had, how to apply, and then with the availability of computers on site, apply for the job during the presentation so that questions could be answered if need be. This opportunity was designed to target the underclassmen that have not had much experience looking for internships. The event was strictly open to all nuclear students and was a “come and go as you please” event.

- **Facility Tours – Organized by Shannon Stacy, Vice President.** This event was new to the organization. Although the event was not running in full gear, there were many relationships and contacts made at the various power plants for the students so that this event could continue. Tours were completed at MURR in Columbia, Missouri and Callaway in Fulton, Missouri. Tours were also set up for Fort Calhoun, Nebraska, Comanche Peak, Texas, and many Exelon Plants in Illinois for the next year. Due to outages and schedules, mixed with this being a new event, these tours were pushed to the next year.
- **Interviews – Organized by Career Center.** Many opportunities are established between the members of ANS, the nuclear department, and the career center. Several companies came to campus to conduct interviews with the students in the nuclear department. All the students were active members of ANS. Some of the companies were:
  - KAPL
  - APS
  - NRC
  - BECHTEL

## H. Personal Development

One of the reasons that the ANS chapter has been so successful is because the members are dedicated to their own personal development. Many of the members are active in many other campus organizations and society's as well as being a part of organizations at the national level. The executive officers show their dedication by being active officers of other organizations as well. These organizations include but are not limited to:

- ANS National
  - Women In Nuclear (WIN), Student Chapter, National, and Global
  - Region IV Win Board
  - Institute of Nuclear Materials Management (INMM)
  - Blue Key
  - Alpha Nu Sigma
  - Theta Eta
  - Phi Kappa Alpha
  - Tau Beta Pi
  - NRHH
  - American Women in Science (AWIS)
  - Society of Women Engineers (SWE)
  - Jazz Band
  - Praise Band
  - Solar Car Team
  - North American Young Generation in Nuclear
  - Phi Kappa Phi
- **ANS Summer National Conference** – Shannon Stacy, Vice President attended the SSC meeting and was involved in SSC activities as well as attended many valuable presentations.
  - **ANS Winter National Conference** – Eight students, Shannon Stacy, Vice President, Mike Janaske, Brittany Ford, Dan Kreis, Historian, Frank Strantz, Dan Doenges, Amol Patil, and Bradley Richardson, Social Coordinator attended the conference. All of the students worked as a student assistant to help run the conference and some students worked multiple sessions. Shannon Stacy was a presenter at the conference as an invited speaker on the topic of integration of policy and technology for nonproliferation purposes for the safeguards specialist. Shannon Stacy also participated in the SSC meeting for student chapters.
  - **ANS Student Conference** – Six students, Shannon Stacy, Vice President, Savannah Avgerinos, Corresponding Secretary, Dan Kreis, Historian, Jamel Bell, Matthew Tong, and Jeffery Divis attended the conference. As well

as attending many different presentations. The students also participated in the nuclear public forum where two of the students addressed questions to the panel. Shannon Stacy, the Vice President, also received one of the first awards that the SSC granted for Leadership in the chapter.

- **INMM Annual Conference** – Shannon Stacy, Vice President, attended the annual INMM conference, where many speakers and presenters are giving presentations on the status of nonproliferation studies and nuclear material detection advancements.
- **INMM Student Workshop** – Two students Shannon Stacy, Vice President and Savannah Aygerinos, Corresponding Secretary attended a three day workshop about nonproliferation issues and opportunities at the University of Missouri Columbia hosted by Mizzou and Oak Ridge National Laboratory.
- **Women In Nuclear (WIN)** – Shannon Stacy, Vice President and Courtney St. Peters, both attended the Women in Nuclear National and Global conference in Washington DC. They both experienced a different side of the nuclear industry by participating in educating the congressmen and women of our nation about nuclear issues. Both were able to connect with other nuclear professionals from other countries and escort them to various members of congress and discuss nuclear matters. A few of the countries that they helped experience the United States nuclear experience were Slovenia, India, and Pakistan.
- **Women In Nuclear Region IV Conference** – Shannon Stacy, Vice President attended the Region IV WIN conference in Washington DC and was able to experience aspects of personal growth for the nuclear individual. The conference was groundbreaking in the area of dealing with the upcoming attrition issues in the nuclear field, personal growth, and advancement in the nuclear field.
- **Nonproliferation Workshop** – Shannon Stacy, Vice President attended a nonproliferation workshop hosted by Oak Ridge National Lab in November. The workshop consisted of topics in material accounting and control and physical security.

## **I. Outreach**

One of the major parts of a successful chapter is the outreach activities. Although this chapter is a small chapter, it has participated in outreach activities to help educate others of engineering in general and the nuclear industry.

- **Nuclear Summer Camp - Organized by the Nuclear Department.** Many of our members participate in the nuclear summer camp that the department hosts every year. This is the perfect opportunity to recruit new members for the future. The camp is designed to give future students some hands on activities to show them what nuclear is all about.
- **Biannual Picnics – Organized by Chris Crooks, Treasurer.** This is one of the ways that the chapter sets out to gain new members for the current year or for the next year. There are two picnics, one in the fall and one in the spring. The chapter invites the faculty and new students to come and socialize and ask questions. We play volleyball and this year we tried kickball.
- **Boy Scout Merit Badge – Organized by Lucas Tucker, Outreach Coordinator.** This is an annual event that the organization has been participating in for many years. As one of the leading chapters in this event, the chapter sets out to help the boys earn their nuclear merit badge. They learn various nuclear concepts and participate in activities, tours, and a radiation detection mission.
- **Annual Engineer Week Science Center Outreach – Organized by Shannon Stacy, Vice President.** This is one of the main events that allow the student members to reach out to kids and parents that are in a science environment. By incorporating the outreach into a place where the curiosity is already at its highest, the children and parents are receptive about the possibilities in the nuclear field.
- **Other events.** Although the organization was not able to participate in these other events, they have been a part of our annual events for many years. Since the chapter tried to incorporate some new things this year and new speakers, we were not able to fit them into our schedule:
  - Pro Day: ANS sets up a booth at the campus center for incoming freshman orientation to introduce them into the nuclear field.
  - Block Party: ANS sets up a booth on the city wide neighborhood block party so that patrons can see some different experiments involved in nuclear to educate them about the safety of radiation and nuclear. It is also used as a fundraiser.



### ***J. Community Service***

Our chapter believes that it is important to give back to the community as an appreciation of support. It is through the community that organizations are funded, it is the community that comes to the events that are planned, and it is the community that grows up and has children that may one day be a student in our chapter. It is also the philosophy of our chapter that giving back is an important characteristic of self. Our chapter participates in several community projects.

- **Highway Cleanup – Organized by Christopher Crooks, Treasurer.** This event is something that the chapter participates in twice a year. Once in the fall and once in the spring. The chapter has adopted a highway outside of town.
- **Volunteer for Ameren Nuclear Power Plant Family Day – Organized by Shannon Stacy, Vice President.** The members of the organization banded together to drive two hours to the nuclear power plant to help them conduct their family day. Since the company was short on volunteers, they asked our members to volunteer for their family day. We had several that gave up an entire Saturday to help the company.
- **Bimonthly Blood Drive – Organized by Campus.** Over half of our members are regular blood donors for the campus blood drive that is hosted every other month.
- **Alpha Nu Sigma Tutoring – Organized by Daniel Doenges, Alpha Nu Sigma President.** Many of the members of our chapter are also members of Alpha Nu Sigma. One of the service projects they started this year is tutoring nuclear students for finals. During the week before finals, the members take turns staying on campus making themselves available to others for tutoring.





### **K. Social Events**

It is well known that the cohesiveness of the group is imperative to be successful in accomplishing goals throughout the year. Our chapter participates in several social events.

- **Bowling – Organized by Brad Richardson, Social Coordinator.** The students attended bowling night to have fun competing against each other.
- **Float Trips – Organized by Brad Richardson, Social Coordinator.** The students got together twice, once in the fall and once in the spring to join in the fun of a float trip. Our advisor, Dr. Castano also joined in the trip.
- **Rock Band Tournament – Organized by Brad Richardson, Social Coordinator and Shannon Stacy, Vice President.** The students ended the fall semester in a competition of Rock Band and to relieve the pressure of finals.
- **Christmas Dinner – Organized by Christopher Crooks, Treasurer and Shannon Stacy, Vice President.** The student members got to enjoy a full course, home cooked meal, courtesy of Shannon Stacy's daughter, for the Christmas holidays. The food was also served to graduate students who were working late.

### **L. Accomplishments and Awards**

Many of the students have accomplished wonderful things throughout the year. As this report comes to a close, it is important to note that the students are not only dedicated to their organization, but to their education as well.

- **Alpha Nu Sigma** – This organization is reserved for juniors and seniors who meet the criteria of being in the top of their class academically. Several members of ANS are members of Alpha Nu Sigma to include two of the executive officers, Christopher Crooks, Treasurer and Shannon Stacy, Vice President.
- **Dean's Academic List** – All of the active members of ANS are currently academic scholars at the university.
- **NANT Scholars** – Four of our members, to include an executive officer, Amanda Merriken, Secretary, are recipients of the NANT Scholarship. This is a competitive utility scholarship that requires the recommendation of someone already in the field that feels you are a benefit to the nuclear power industry.
- **SSC Leadership Award** – This award is new this year and had 17 nominees. Only three individuals were selected with one being an executive officer of this chapter, Shannon Stacy, Vice President.
- **Mines and Metallurgy Leadership Academy Scholar Award** – This award is only awarded to six graduating seniors on the campus. This scholarship is competitive and starts by the nomination of peers and faculty. Shannon Stacy, Vice President, was awarded this award for 2009-2010 academic years.
- **Undergraduate Publishing's** – Shannon Stacy, Vice President, published an abstract and presentation as an undergraduate for the 2009 Winter ANS Conference on research completed at Oak Ridge National Lab.



- **There are many other awards and scholarships that have been awarded but time constraints have limited dedication to collecting the information.**
- **Goal Setting** – An important category in this section is to note that our goals for the semester have been met. We have been able to successfully attract younger members through the various functions we hosted, we were successful at getting all our annual reporting finished and turn our items in to become a good standing chapter, we were able to update our website (although ongoing) to the point that it is now running and posting upcoming items for the next year. We were able to increase the relationships between our chapter, our entire department, and employers. With the contacts that were made all year, the possibilities are endless. We were successful at bringing in more speakers than we had in the past and to make sure that they were a diverse group to appeal to different interests, and most of all, we were able to have a fulfilling year to show that in the future we have the capability to possibly host a conference. This in itself is the most important accomplishment of all.

### **M. Conclusion**

In conclusion, I would like to note that this chapter, with the help of every individual member, and every professor and staff member in the nuclear department, has surpassed many of the goals that they have set out for themselves. There are many more to go, many days of becoming better, and many tasks to accomplish to become superior and be able to pave the way. We have achieved what we set out to for this academic year and leave the remaining tasks as a challenge for the next year. With a change in heart, attitude, and dedication, each member has found a way to contribute and to add to the success of this organization. With this in mind, I feel that this chapter deserves the honor of receiving the Glasstone award and I hope that after reviewing this document that you will too.