

RRSD Exec Committee Meeting

Date: June 17th, 2018

Location: Marriott City Center, Philadelphia, PA.

Attendees: Mitch Pryor, Brian O'Neil, Young Soo Park, Steven Shaw, Philip Heerman, Leonel Lagos, Kevin Cooper, Mike Dalmaso, Jim Tulenko

Proxies: C. Eason, S. Canfield, J. Yoon, S. Prasad

CALL TO ORDER AND WELCOME:

The meeting was called to order at 12:15 PM. M. Pryor welcomed committee and made introductions.

PRESENTATION FROM ANS STUDENTS:

A delegation from the ANS student conference gave a briefing about the upcoming ANS Student Conference hosted by Virginia Commonwealth University in Richmond, VA, April 4-6th. They thanked the committee for our contribution to the last student conference, and circulated a flier for the 2019 conference. (Attached.)

MEETING MINUTES:

Y. Park suggested correcting conference titles in draft minutes from previous meeting.

P. Heerman corrected Jake Deuel's name.

K. Cooper moved to approve the October minutes as amended. P. Heerman seconded. The motion passed unanimously.

MEETING UPDATES:

Y. Park presented a summary of the recent ISOFIC conference in South Korea (Attached.)

Gary Benda provided a summary of the 2017 Waste Management Symposium, stating that it was very successful with 130 robotics abstracts, 115 students, and 43 poster presentations. He also laid out the vision for symposia to come:

- Robotics may be focus again in three years.
- Proposed 1 panel on robotics next year in a technical track. Abstract review will take place March 3-7.
- L. Lagos stated that the symposium was a great success for students, and expressed a desire to keep the momentum going.
- The symposium would like 60-70 presentations next year.
- P. Heerman suggested Nuclear Internet of Things (IoT), as a possible focus area, and stated the relationship to data analytics and autonomy, both components of Industry 4.0.

TREASURER REPORT:

S. Shaw requested that committee members bring proposed student support disbursements to the 2018 winter meeting. There was some discussion and clarification of how the support fund spending limits are set.

M. Dalmaso presented request from North August High School Vex Robotics team for \$500, and moved to approve the request. L. Lagos seconded. Motion passed unanimously.

P. Heerman moved to approve \$500 for student conference. B. O'Neil seconded. Motion passed unanimously.

Division financials are attached.

UPCOMING MEETINGS:

IEEE/ANS Joint International Conference

- Currently a proposal from England to host in London. There wasn't much dissenting voice at the planning meeting in Phoenix. Need proposals from appropriate US sites: Albuquerque, NM and Augusta, GA
- Selection requires a committee. P. Heerman nominated M. Pryor and Y. Park to serve on the committee. Nominations were approved unanimously.
- M. Dalmaso will try to solicit a proposal from Augusta.
- P. Heerman will work with Jake Deuel to generate a proposal from Albuquerque.
- Another planning meeting will take place at the Waste Management Symposium in Phoenix, Sep 9-11 in Phoenix, most likely on Sunday, the 9th.
- M. Pryor suggested that if the meeting falls through for some reason, this committee should consider an embedded topical at the ANS annual meeting.

2018 ANS Annual Meeting,

- Only 181 abstract submissions by original deadline.
- Deadline extended to June 29th. Members encouraged to solicit abstracts from students and professional networks.

FROM THE CHAIRS' MEETING: M. Pryor

ANS Finances are "fragile". There is a push for some consolidation of meetings, bringing the various division topicals back into the annual and winter meetings. Membership and participation are down, but the phenomenon is not unique to ANS per se. Other professional organizations are dealing with the same. President suggested three "Be's" to guide ANS moving forward:

- Be One ANS – Society is too fractured right now.
- Be Sought After – ANS should be an authority sought out for its expertise.
- Be Looking Forward – Encourage young, early-career professional involvement.

Division consolidations were mentioned again. RRSD is a candidate as the smallest division, but it also doesn't mesh well with many other technical divisions.

ACTION ITEMS UPDATE:

B. O'Neil will update the action item list on ANS Collaborate.

COMMITTEE ASSIGNMENTS:

New Officers effective at the Winter Meeting:

- Chairman: Leonel Lagos
- Vice-chair: Brian O'Neil
- Secretary: Young Soo Park
- Treasurer: Steven Shaw
- Ex-officio: Mitch Pryor

Committee Assignments:

- Publications chair – Mark Noakes
- Student Activities Chair – Vacant
- Conference Chair – Mitch Pryor
- Honors and Awards Chair – Jim Tulenko
- Webmaster – Steven Canfield

WEB PAGE:

S. Canfield will update the webpage with the following information:

- Remove Kim Monti from membership list
- New officer and executive committee member listing.
- Fix link in section on applying for grants.
- Update meetings listing

NEWSLETTER:

Y. Park needs content by mid-July to release a letter in August.

NOMINATIONS:

The committee should seek out 5 nominees from which 3 will be elected. We should emphasize early-career individuals. Deadline is August 1st.

BYLAWS UPDATE:

This is still in process, sitting with the ANS Bylaws Committee.

EXITING MEMBERS:

The chair thanked outgoing member Luke Reid for his service.

NEW BUSINESS:

P. Heerman moved that the board remove Kim Monti from her position due to her inability to attend meetings. The motion passed unanimously.

There was discussion over how the RRSD Executive Committee might help facilitate more open collaboration between researchers in South Korea, The United States, and The United Kingdom regarding robotics in nuclear and hazardous environments. P. Heerman pointed out that this is difficult to get the government to move on because the government is not responsible for on-site response in off-normal nuclear events. The sense of the committee is that it would be more productive to approach private sector firms that may have an interest. M. Pryor agreed to contact associates at EPRI to evaluate their interest in such a collaboration.

NEXT MEETING:

November 10th, 2018 in Orlando, FL.

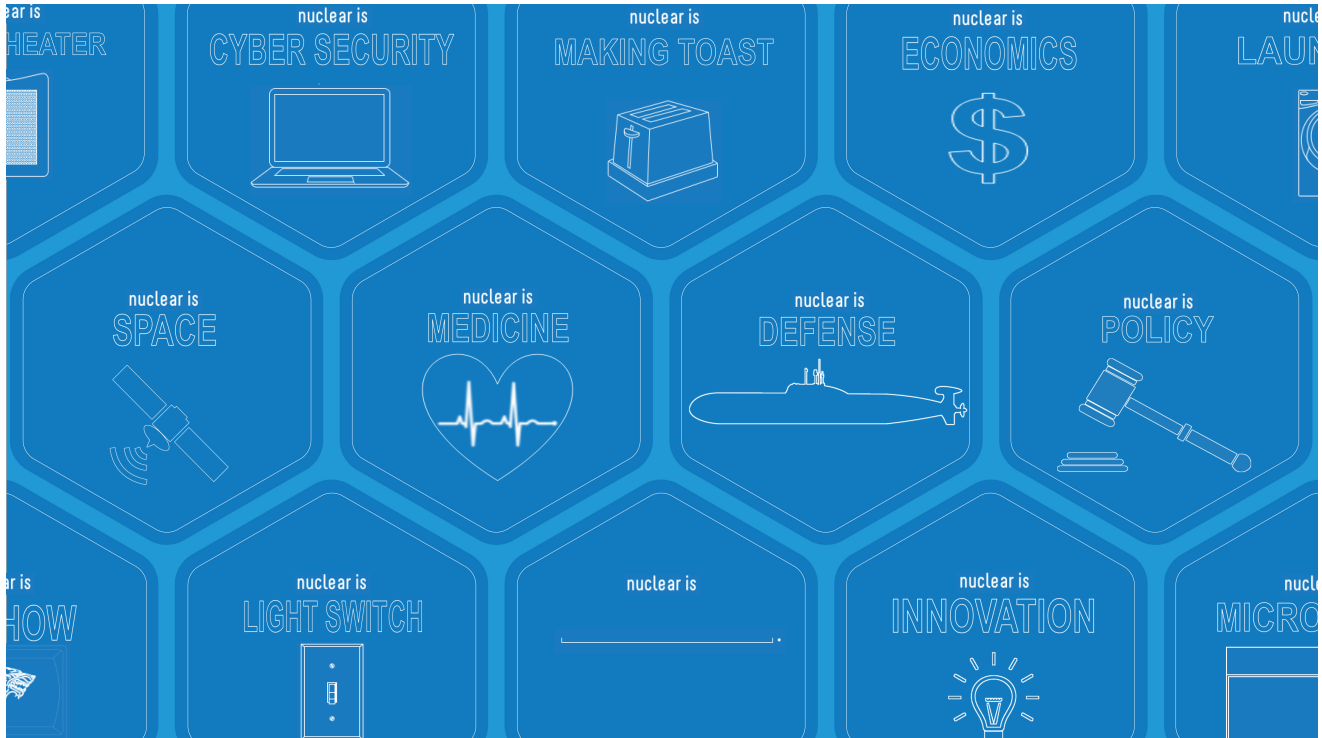
ADJOURNMENT:

Meeting Adjourned at 4:00.



ANS Student Conference 2019

Virginia Commonwealth University



Sponsorship & Exhibition Prospectus



**VCU Section of the
American Nuclear Society**

April 4-6, 2019 Virginia Commonwealth University Richmond, Virginia



MESSAGE FROM THE CO-CHAIRS

Greeting Potential Sponsors & Exhibitors!

We look forward to welcoming the nuclear science and technology community to Virginia Commonwealth University and Richmond, Virginia in the spring of 2019!

The word “nuclear” likely invokes a few specific mental images to the general public. Indeed, prior to receiving a full undergraduate education, even aspiring nuclear engineers may only be aware of a nuclear power generation opportunities. However, the applications and opportunities within nuclear science and technology go much further than power generation. For example, the medical field has benefited greatly from advances in nuclear science and technology with nuclear-enabled tools for imaging, diagnosis, and treatment. Irradiating food offers protection from harmful microorganisms without compromising the quality of the food. Nuclear science and technology provides tools to law enforcement and national security personnel to help identify threats and protect our communities. Of course, nuclear power generation is a major contributor to the green energy mix, and the successes and advances in this area must not be overlooked.

For the 2019 ANS Student Conference, we have chosen to focus on the broad nature of nuclear science and technology with the theme “nuclear is _____.” Under this theme, the conference will explore the many opportunities afforded to students. The theme will also encompass the many supportive activities, technologies, and experts in varied disciplines within nuclear science and technology. Obvious examples of the application of the theme include: “nuclear is thermal hydraulics.” or “nuclear is neutronics.” or “nuclear is nonproliferation.” Other, less obvious applications of the theme include: “nuclear is cybersecurity.” or “nuclear is advocacy.” or “nuclear is economics.”

In addition, this theme allows us to explore the subtle and ubiquitous impacts of nuclear science and technology. For example: “nuclear is making toast.” One out of every five pieces of bread used in making toast in the U.S. is toasted using electricity generated from nuclear power plants. Another example would be “nuclear is fresh herbs and spices.” Almost every jar of dried herbs or spices sold in the U.S. has been irradiated to preserve its flavor and maintain longer shelf-lives. Demonstrating the successful and safe day-to-day use of nuclear science and technology represents an important nuclear advocacy tool that we will highlight throughout the conference.

Finally, the exciting new technologies that hold much promise for the nuclear industry will be represented by “nuclear is entrepreneurship.” and “nuclear is innovation.” Innovations in reactor designs, medical applications, and security tools will require those with the imagination and the business skills capable of launching new products and/or companies that fulfill the promise of an improved world. In contrast with the ubiquitous and mundane, successes in the innovation and entrepreneurship represent the exciting and inspiring aspects of nuclear science and technology that will energize those students in attendance.



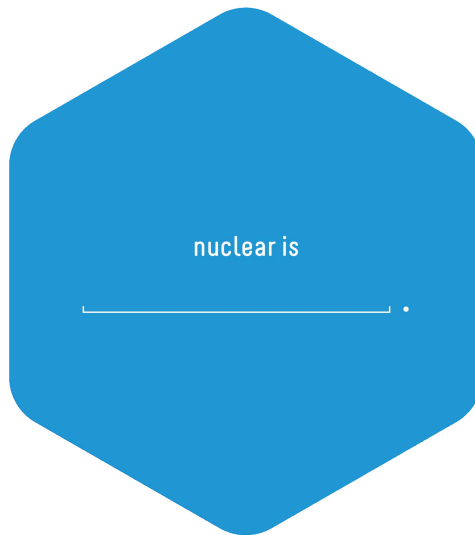
We invite you to review our sponsorship and exhibitor options to see if there is an option that suits your company's or organization's needs to reach students and support their efforts to make a significant impact on the world through advancements in nuclear science and technology. If your company or organization has interest in sponsoring the 2019 ANS Student Conference at Virginia Commonwealth University, please either contact us by phone (770-710-6385) or email the Financial Co-Chair, Daniell Tincher at tincherdj@vcu.edu. We look forward to working with our sponsors and exhibitors to make the 2019 ANS Student Conference a resounding success!

Sincerely,

Meredith Eaheart
Hospitality Co-Chair
eaheartmb@vcu.edu

Sarah Morgan
Technical Co-Chair
morgansw@vcu.edu

Daniell Tincher
Financial Co-Chair
tincherdj@vcu.edu





BENEFITS OF SPONSORSHIP

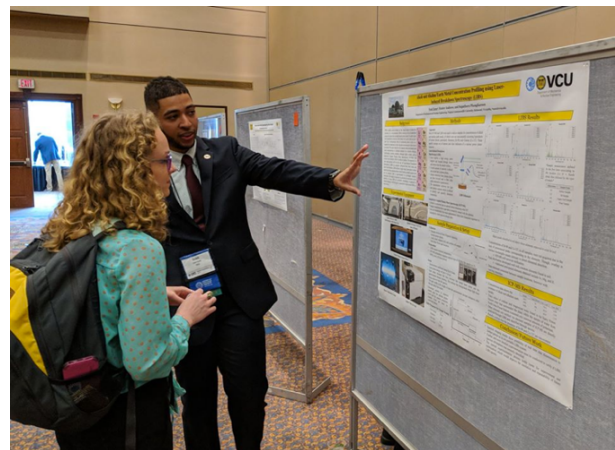
The ANS Student Conference is the largest single gathering of students in nuclear sciences and technology. The conference provides students with an opportunity for professional development through networking with fellow students, future colleagues, and professionals. The 2019 ANS Student Conference will also give attendees the chance to participate in a wide variety of workshops, ranging from nuclear advocacy to training in the latest computational research methods. Lastly, the ANS Student Conference allows students to gain experience presenting research and effectively communicating their findings.

Previous ANS Student Conferences have experienced great success thanks to the sponsors. In return, our conference aims to maximize exposure for sponsoring companies and organizations to some of the brightest and most talented aspiring nuclear scientists and engineers. Our sponsorship options are tailored towards conference visibility of your company or organization. Sponsors can take pride in the fact that they are fostering a forum for the exchange of ideas and forging connections that will last entire careers.

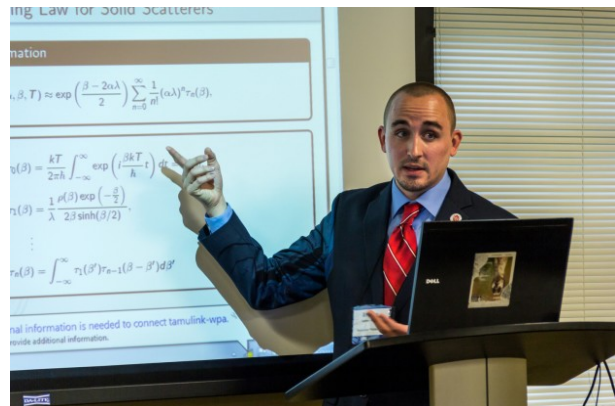
For your company's or organization's investment in the future of nuclear science and technology, we are offering seven sponsorship options with varying levels of visibility benefits. Each option provides sponsoring parties career fair space and a variety of other benefits, including waived registrations, conference program ad space, Lunch and Learn recruiting talks, and for Leader and Champion level sponsors, the opportunity to provide a keynote address at one of three nightly dinners. Exhibitor options are given on page 7.



An exhibitor talks to nuclear engineering student.



A student explains his research during the poster session.



A student giving a podium presentation.



SPONSORSHIP OPPORTUNITIES

Oganesson Level \$30,000

- Provide a keynote speaker at the conference dinner of your choosing
- Name, host, or participate in a workshop, panel, or two technical sessions
- Sponsor the poster session
- Receive a full page ad on the inside front page or the back cover of the conference program
- Showcase logo on the conference T-shirt
- Choose two adjacent career fair booths
- Fees waived for all full-meeting registrations and career fair only registrations
- Have multiple tables at the front of the networking dinner
- Logo on a gift bag item provided by the conference

Tennessee Level \$20,000

- Provide a keynote speaker at one of the three conference dinners
- Name and participate in a workshop, panel, or two technical sessions
- Receive a full page ad in the conference program
- Logo on the conference T-shirt
- Choose two adjacent career fair booths
- Fees waived for four full-meeting registrations
- Have multiple tables near the front of the networking dinner
- Logo on a gift bag item provided by the conference

Livermorium Level \$10,000

- Have the opportunity to host a lunch & learn
- Name and participate in a workshop, panel, or two technical sessions
- Receive a half page ad in the conference program
- Choose a highly visible career fair booth
- Fees waived for three full-meeting registrations
- Have multiple tables at the networking dinner
- Option to provide branded item in gift bag

Moscovium Level \$7,500

- Have the opportunity to host a lunch & learn
- Name and participate in a workshop, panel, or two technical sessions
- Receive a quarter-page ad in the conference program
- Be invited to participate in the career fair
- Fees waived for two full-meeting registrations
- Have two tables at the networking dinner



Flerovium Level \$5,000

- Have the opportunity to name a technical session
- Receive a quarter-page ad in the conference program
- Be invited to participate in the career fair
- Fees waived for two career fair only registrations

Nihonium Level \$2,000

- Be invited to participate in the career fair
- Fees waived for one career fair only registrations
- Receive recognition in the conference program

Copernicium Level Below \$2,000

- Receive recognition in the conference program

Possible Gift Bag Items

- Adhesive ID Holder for Cell Phone
- Lanyard
- Microfiber Cloth
- Notepad
- Pen
- Umbrella
- Water Bottle
- PopSocket
- Mints



EXHIBITION OPPORTUNITIES

Different from sponsors, exhibitors are welcome to promote their organization and recruit at the conference.

Plutonium Exhibitor Level \$10,000

- Be invited to participate in the career fair
- Fees waived for two full-meeting registrations
- Have a table at the networking dinner
- Receive recognition in the conference program
- Have a table at the networking dinner

Neptunium Exhibitor Level \$5,000

- Be invited to participate in the career fair
- Fees waived for two career fair only registrations
- Have a table at the networking dinner
- Receive recognition in the conference program
- Have a table at the networking dinner

Uranium Exhibitor Level \$2,000

- Be invited to participate in the career fair
- Includes one career fair only registration
- Receive recognition in the conference program

RRSD June 2018 Treasurer Summary

GENERAL FUND				
	Actual	Budget	Variance	Notes:
<u>Revenues</u>	\$154	\$684	(\$530)	
<u>Expenditures</u>				
Awards & Plaques	\$0	\$300	(\$300)	
Student Support	\$0	\$500	(\$500)	
Other	\$4	\$0	\$4	FedEX/USPS Allocation
Total Expenditures	\$4	\$800	(\$796)	
<u>Net Surplus</u>	\$150	(\$116)	\$266	
<u>Fund Balance</u>	\$7,181	\$6,915	\$266	
	2017 Investment Gain	2018 Total Fund	2018 Spend Limit	Notes:
RAY GOERTZ FUND	\$11,564	\$78,912	\$2,139	Limited 2.71%
STUDENT SUPPORT	\$9,548	\$64,657	\$1,752	Limited 2.71%

AMERICAN NUCLEAR SOCIETY
 Robotics Remote Systems Division
 3/31/2018

	<u>Actual</u>	<u>Budget</u>	
	3/31/2018	12/31/2018	Variance
Revenues			
Dues Revenue Allocation	\$154	\$684	(\$530)
Total Revenue	154	684	(530)
Expenditures			
Awards, Plaques		300	(300)
Student Support		500	(500)
Other Expenses	4		4
Total Expenditures	4	800	(796)
Net Surplus/(Deficit)	150	(116)	266
Fund Balance at 1/1/18	6,531	6,531	-
Prior Period Adjustment: Add back funds that were taken out of Student Support Fund	500	500	-
Fund Balance at 3/31/18	7,181	6,915	266

AMERICAN NUCLEAR SOCIETY
 Robotics Remote Systems Division
 3/31/2018

	<u>Actual</u>	<u>Budget</u>	
	<u>3/31/2018</u>	<u>12/31/2018</u>	<u>Variance</u>
Revenues			
Dues Revenue Allocation:			
MEMBERSHIP DUES ALLOCATION	154	684	(530)
Total Dues Revenue Allocation	154	684	(530)
Total Revenue	154	684	(530)
Expenditures			
Awards, Plaques:			
14-8015-000000-063020 Division, Awards/Plaques -RRSD		300	(300)
Total Awards, Plaques		300	(300)
Student Support:			
14-8030-000000-063020 Div -Student Support -RRSD		500	(500)
Total Student Support		500	(500)
Other Expenses:			
FEDEX/USPS ALLOCATION 2/28/18	4		4
Total Other Expenses	4		4
Total Expenditures	4	800	(796)
Net Surplus/(Deficit)	150	(116)	266

American Nuclear Society								
Ray Goertz Fund - 2708								
Robotics & Remote Systems Division								
Statement of Account								
1/1/2012 - 12/31/2017								
Date	Description	Perm. Restricted	Temp. Restricted	Division- Designated	Total Scholarship Funds	Board- Designated Assistance	Total All Funds	
1/1/2012	Starting balances	\$0	\$55,197	\$0	\$55,197	\$0	\$55,197	
12/31/2012	Investment gain applied (5% for year)		+ \$1,932		+ \$1,932		+ \$1,932	
12/31/2012	Year-end balances	\$0	\$57,129	\$0	\$57,129	\$0	\$57,129	
12/31/2013	Investment gain applied (16.4% for year)	+ \$0	+ \$9,369		+ \$9,369		+ \$9,369	
12/31/2013	Year-end balances	\$0	\$66,499	\$0	\$66,499	\$0	\$66,499	
6/17/2014	Award paid to William Hamel		- \$2,500		- \$2,500		- \$2,500	
12/31/2014	Investment gain applied (3% for year)		+ \$1,995		+ \$1,995		+ \$1,995	
12/31/2014	Year-end balances	\$0	\$65,994	\$0	\$65,994	\$0	\$65,994	
12/31/2015	Investment loss applied (-.331% for year)		-\$218		- \$218		- \$218	
12/31/2015	Year-end balances	\$0	\$65,775	\$0	\$65,775	\$0	\$65,775	
7/4/2016	Purchase of Award Plaques		-\$110		- \$110		- \$110	
7/18/2016	Award paid to Frank Heckendorn II		-\$2,500		- \$2,500		- \$2,500	
12/31/2016	Investment gain applied (6.36% for year)		\$4,183		+ \$4,183		+ \$4,183	
12/31/2016	Year-end balances	\$0	\$67,348	\$0	\$67,348	\$0	\$67,348	
12/31/2017	Investment gain applied (17.17%)		\$11,564		\$11,564		+ \$11,564	
12/31/2017	Year-end balances	\$0	\$78,912	\$0	\$78,912	\$0	\$78,912	
1/1/2018	<i>Spend limit for year is 2.71%</i>		+ \$2,139	+ \$0	+ \$2,139	+ \$0	+ \$2,139	

American Nuclear Society								
RRSD Student Support Fund - 2734								
Robotics & Remote Systems Division								
Statement of Account								
1/1/2012 - 12/31/2017								
Date	Description	Perm. Restricted	Temp. Restricted	Division- Designated	Total Scholarship Funds	Board- Designated Assistance	Total All Funds	
1/1/2012	Starting balances	\$0	\$0	\$57,048	\$57,048	\$0	\$57,048	
8/31/2012	Award paid to CEMS Robotics			-\$500	-\$500		-\$500	
8/31/2012	Award paid to Aragon HS Robotics Team			-\$500	-\$500		-\$500	
12/31/2012	Investment gain applied (5% for year)			+\$1,983	+\$1,983		+\$1,983	
12/31/2012	Year-end balances	\$0	\$0	\$58,031	\$58,031	\$0	\$58,031	
12/31/2013	Investment gain applied (16.4% for year)				+\$0		+\$0	
12/31/2013	Year-end balances	\$0	\$0	\$58,031	\$58,031	\$0	\$58,031	
1/31/2014	Award paid to Burlingame HS Robotics Team			-\$500	-\$500		-\$500	
1/31/2014	Award paid to General Hardin HS Vex Robotics			-\$500	-\$500		-\$500	
1/31/2014	Award paid to Hayfield Sceondary School			-\$500	-\$500		-\$500	
1/31/2014	Award paid to North Alabama Robotics			-\$500	-\$500		-\$500	
7/31/2014	Award paid to Team 1912 Booster Club			-\$500	-\$500		-\$500	
7/31/2014	Award paid to Murchison Middle School			-\$500	-\$500		-\$500	
12/31/2014	Investment gain applied (3% for year)			+\$1,741	+\$1,741		+\$1,741	
12/31/2014	Year-end balances	\$0	\$0	\$56,772	\$56,772	\$0	\$56,772	
2/27/2015	Award paid to First Robotics Team 5136			-\$500	-\$500		-\$500	
4/1/2015	Award paid to fund 2015 Student Conference			-\$500	-\$500		-\$500	
5/31/2015	Award paid to fund 2015 Student Travel to Nat'l Meetings			-\$1,000	-\$1,000		-\$1,000	
6/30/2015	Award paid to Jessica Shewmaker (travel grant)			-\$800	-\$800		-\$800	
12/17/2015	Award paid to Campbell Middle School			-\$500	-\$500		-\$500	
12/17/2015	Award paid to Los Gatos HS FRC Robotics Team			-\$500	-\$500		-\$500	
12/31/2015	Award paid to fund 2016 Student Conference			-\$500	-\$500		-\$500	
12/31/2015	Investment loss applied (-.331% for year)			-\$188	-\$188		-\$188	
12/31/2015	Year-end balances	\$0	\$0	\$52,284	\$52,284	\$0	\$52,284	
12/31/2016	Investment gain applied (6.36% for year)			\$3,325	\$3,325		+\$3,325	
12/31/2016	Year-end balances	\$0	\$0	\$55,609	\$55,609	\$0	\$55,609	
12/31/2017	Award paid to fund 2018 Student Conference			-\$500	-\$500		-\$500	
12/31/2017	Investment gain applied (17.17%)			\$9,548	\$9,548		+\$9,548	
12/31/2017	Year-end balances	\$0	\$0	\$64,657	\$64,657	\$0	\$64,657	
1/1/2018	Spend limit for year is 2.71%		+\$0	+\$1,752	+\$1,752	+\$0	+\$1,752	

Example Scholarship/Award Statement

American Nuclear Society
 John Doe Scholarship
 ABC Division
 Statement of Account
 1/1/2012 - 12/31/2015

Date	Description	[1]	[2]	[3]	Total	[4]	Total All Funds
		Perm. Restricted	Temp. Restricted	Division- Designated	Scholarship Funds	Board- Designated Assistance	
1/1/2012	Starting balances	\$0	\$10,000	\$0	\$10,000	\$50,000	\$60,000
3/1/2012	Endowment from Jane Adams Estate Trust	+ \$20,000			+ \$20,000		+ \$20,000 [6]
4/1/2012	Gift from Frank Miller		+ \$200		+ \$200		+ \$200 [7]
6/1/2012	Scholarship paid to Nancy Suluwake		- \$3,000		- \$3,000		- \$3,000 [8]
9/1/2012	Division disbursement form: capital			+ \$15,000	+ \$15,000		+ \$15,000 [9]
12/31/2012	Investment gain applied (5% for year)		+ \$1,360	+ \$750	+ \$2,110	+ \$2,500	+ \$4,610 [10]
12/31/2012	Year-end balances	\$20,000	\$8,560	\$15,750	\$44,310	\$52,500	\$96,810
3/1/2013	Gift from Alphonse Durand		+ \$500		+ \$500		+ \$500
4/1/2013	Gift from Marianne Warner		+ \$5,000		+ \$5,000		+ \$5,000
6/1/2013	Scholarship paid to Jamal Robinson		- \$3,000		- \$3,000		- \$3,000
9/1/2013	Gift from Jason Deering		+ \$100		+ \$100		+ \$100
12/31/2013	Investment loss applied (-2% for year)	- \$400	- \$223	- \$315	- \$938	- \$1,050	- \$1,988 [11]
12/31/2013	Year-end balances	\$19,600	\$10,937	\$15,435	\$45,972	\$51,450	\$97,422
3/1/2014	Gift from Nadia Tolstoy		+ \$600		+ \$600		+ \$600
4/1/2014	Gift from Anytown Local Section		+ \$5,000		+ \$5,000		+ \$5,000
6/1/2014	Scholarship paid to Kimiko Aragaki		- \$1,649	- \$833	- \$2,482	- \$518	- \$3,000 [12]
9/1/2014	Division disbursement form: capital			+ \$10,000	+ \$10,000		+ \$10,000
12/31/2014	Investment gain applied (4.5% for year)	+ \$400	+ \$1,152	+ \$1,107	+ \$2,659	+ \$2,292	+ \$4,951 [13]
12/31/2014	Year-end balances	\$20,000	\$16,040	\$25,709	\$61,748	\$53,224	\$114,973
1/1/2015	<i>Spend limit for year is 2.5%</i>		+ \$901	+ \$643	+ \$1,544	+ \$1,331	+ \$2,874 [14]
5/1/2015	Division disbursement form: scholarship			+ \$126	+ \$126		+ \$126 [15]
6/1/2015	Scholarship paid to Michael Smith		- \$901	- \$768	- \$1,669	- \$1,331	- \$3,000 [16]
8/1/2015	Gift from Corporation XYZ		+ \$2,500		+ \$2,500		+ \$2,500
12/31/2015	Investment gain applied (5% for year)		+ \$1,882	+ \$1,253	+ \$3,135	+ \$2,595	+ \$5,730
12/31/2015	Board-Designated rebalancing				+ \$0	- \$2,730	- \$2,730 [17]
12/31/2015	Year-end balances	+ \$20,000	+ \$19,521	+ \$26,319	+ \$65,840	+ \$51,759	+ \$117,598 [18]

NEW PROCESS
OLD PROCESS

Example Scholarship/Award Statement

The scholarship process changed slightly at year-end 2014. For full details, see the presentation at <https://vimeo.com/124657923>.

The above figures are purely hypothetical and are specifically selected to illustrate some features of the new process. Your actual investment gain/loss is different than the rates shown here.

- [1] This column is permanently-restricted funds (aka endowments). As a reminder, only one scholarship and one award have an endowment - and neither of those are administered by a division. Your division should not have any money in this column.
- [2] This column is temporarily-restricted funds (contributions from outside ANS, such as individuals, companies, or local sections).
- [3] This column is funds contributed from your division operating budget. In order to make such a contribution, ANS HQ must receive a disbursement form from your treasurer directing the funds be moved.
- [4] This column is funds contributed by the ANS Board of Directors. Only scholarships/awards that were in existence in 2007 have this component. The new process is intended to (over time) reduce the money in this column to zero, while growing the money in the other columns.
- [5] If you disagree with the starting total ("Total Scholarship Funds") of your scholarship in 2012 by more than \$5000, please let us know.
- [6] An example of how an endowment would be credited. (Endowments arrive at ANS with a full legal package restricting the use of the funds for specific purposes, and the capital can never be spent down over time.)
- [7] An example of how a gift from an individual would be credited. For brevity, multiple contributions in a year are often combined on the same line. Individual gifts larger than \$500 will be separately listed.
- [8] An example of how a scholarship distribution was entered from 2007-2014. Funds came wholly from temp-restricted if possible, then secondly from division-designated, and lastly from board-designated.
- [9] An example of how a contribution from a division would be credited. Remember, a disbursement form is needed to direct ANS HQ to transfer the funds.
- [10] Investment gain or loss is settled at the end of each year. Generally earnings or loss is credited to the same column. For scholarships / awards that have an endowment, investment earnings on the endowment are credited to temporarily-restricted funds (except in one special case; see note [11] and [12]).

Note that the values given on this row will usually not correspond directly to the (percent listed) times (the balance in that column) for multiple reasons: a) The balance in the fund may have changed over the year; b) For years prior to the current year, the books have been audited and we must continue to report whatever we reported in that year.

- [11] An example of how an investment loss is settled. Here the loss on permanently-restricted funds (endowments) is shown against the permanently-restricted fund, because that loss must legally be made up at the first available opportunity.
- [12] In 2014, the spend policy was applied behind-the-scenes. This policy limited the amount that could be drawn out of each fund. Scholarships were still funded first from temporarily-restricted, next from division-designated, and last from board-designated, but temporarily-restricted and division-designated were subject to these caps and any "overage" was taken from board-designated funds. (In all cases the application of this spend policy was better for your scholarship, because it meant less money was taken from division-controlled funds and more from board-designated funds.)
- [13] An illustration of how a prior loss on permanently-restricted funds is settled. The next interest earned goes to replenish capital until the balance is again the same as the original balance. After that, interest is again diverted to temporarily-restricted funds.

Example Scholarship/Award Statement

Values given here for 2015 reflect the draft process proposed to implement the spend limit; this process may change. More information will follow shortly.

[14] The amounts shown on this row are not transactions to the funds; they are information. In each year, a spend limit is calculated as [(90%) times (the average of the investment gain/loss in the previous three years)]. This percentage is then applied to each of the columns to get the maximum amount that can be spent from that column each year. Because the spend limit is a rolling average, there will be years where this spend limit is larger than the amount of interest earned in the previous year, or alternately, larger than the amount of interest that will be earned in the upcoming year. The spend limit protects against multi-year drawdown of capital, but a one- or two-year depletion of capital in a down market is an expected occurrence.

If the total (far right column) is larger than your usual scholarship, you can give the scholarship as usual. (However, you cannot increase the amount of the scholarship given without permission from the SPCC.) If the total is less, then either a) you will have to make up the difference with a contribution from division operating funds, or b) you will have to petition the SPCC to cut into your capital.

[15] In this example, the spend limit was less than the normal scholarship amount of \$3000, and the division chose to make up the difference from operating funds using a disbursement form. The disbursement form clearly stated that the money was for the scholarship and not to increase the capital in the division-designated portion of the account.

[16] Here the scholarship is paid out under the new process: first, from board-designated funds up to the spend limit; second, from division-designated funds up to the total of the spend limit and the extra contribution, and last, from temporarily-restricted funds. If the division had chosen to contribute more than the amount shown in note [14], the amount on this line would have gone up (been more negative) for division-designated funds and down (less negative) for temporarily restricted funds.

[17] In the new process, the board-designated funds will be reduced at the end of every year by the net amount of [(interest earned) minus (scholarships given)] in each fund. Note that the contribution from the division and the gift received later in the year are not included in this calculation (additional gifts do not directly reduce the board-designated funds; only the interest on them does).

[18] The total amount in all funds should never go down as a result of the board rebalancing. It should only go down as a result of a year where the investment gain (or loss) was less than the scholarship disbursement.

Trip Summary

Prepared for RRSD EC Meeting (June 17, 2018)
Young Soo Park

KAERI Nuclear Robotics Group (RRSD Subgroup) has invited a delegation from the ANS RRSD EC to participate in the International symposium on Future Instrumentation and Control for Nuclear Power Plants (November 26-30, 2017), and subsequent technology exchange meetings.

Five participants including: Mitch Pryor, Leo Lagos, Young Park, Wendell Chun, Richard Voyle

From the US side the objectives for the visit were twofold:

- 1) Attend ISOFIC
- 2) Unofficially visit Korean nuclear community to identify potential US-Korea collaboration

The visit included four days of participation in workshops and meetings:

- Day 1 (11/ 28/2017): Attended ISOFIC, RRSD sessions. US delegates and Korean participants presented their R&D programs and experiences. Of particular interest was the exchange of the US and ROK robotics roadmap presentations. On the US side (Wendell Chun) presented the US DOE-EM robotics roadmap, and on the ROK side, Dr. Kyunghoon Kim (Robot PD of MOTIE - Ministry of Trade Industry and Energy) has presented its new 5 year roadmap.
- Day 2 and 3 (11/29-30): Visited KAERI for a tour of the Nuclear Robotics Laboratory and a day-long technical meeting exchanging summary presentations on the R&D programs.
- Day 4 (12/01): Luncheon meeting with Mr. Woochul Kim of MSIT (Ministry of Science and ICT) and discussed opportunities for collaboration.

There was a debrief session of the visit summary with the DOE-EM Technology Development Office.

An action item was added at the US-ROK Joint Standing Committee on Nuclear Energy Cooperation meeting (April 2018) for pursuing promotion of collaborative R&D program on R&RS technology.