



2016-2017 Year-End Report

Section Information			
Section Name:	Brigham Young University American Nuclear Society Student Section		
Section Mailing Address:	350U Clyde Building, Department of Chemical Engineering, Brigham Young University		
	<i>Street</i> Provo	UT	84602
	<i>City</i>	<i>State</i>	<i>Zip</i>
Section website:	https://www.facebook.com/ANSBYU/	Section email:	ansbyu@gmail.com
Facebook:	https://www.facebook.com/ANSBYU/		<i>(If you have a permanent address like ANS@school.edu)</i>
No. of Section Members:	53		4
	<i>Undergraduate</i>		<i>Graduate</i>
NE Department Enrollment:	N/A		N/A
	<i>Undergraduate</i>		<i>Graduate</i>
Dues Required of Members:	\$ 20.00	per	Year
			<i>Year, Month, etc.</i>

Advisor Information			
Name:	Dr. Matthew Memmott		
Email:	memmott@byu.edu	Phone:	(801) 422-6237
Mailing Address:	350U Clyde Building, Department of Chemical Engineering, Brigham Young University		
	<i>Street</i> Provo	UT	84602
	<i>City</i>	<i>State</i>	<i>Zip</i>

Outgoing Officer Information			
Position	Name	Email	Year and Major
President	Jacob Ladd	ladd.jacob@gmail.com	Junior, Chem. E
Vice-President	Richard Fitzhugh	richardlfitzhugh@gmail.com	Senior, Chem. E
Comm. Officer	Trevor Lillywhite	trevor.lillywhite@gmail.com	Senior, Chem. E
Treasurer	Neal Gaffin	ndgaffin@gmail.com	Junior, Chem. E
Webmaster	Michael Wray	michael@drwray.org	Junior, Chem. E
Secretary	Ben Neff	benellneff@gmail.com	Senior, Chem. E
Membership	Nathan Murray	nathan.r.murray@gmail.com	Ph.D., Chem. E

Programs	Joel Johnson	ridingdk@gmail.com	Senior, Chem. E
Incoming Officer Information			
Position	Name	Email	Year and Major
President	Sarah Skousen	sarah.ann.s@hotmail.com	Senior - Chem. E
Vice-President	Alex Wright	alexandwright@gmail.com	Junior- Chem. E
Comm. Officer	Jihun Jeong	jihunj.jeong@gmail.com	Senior - Chem. E
Treasurer	Richard Hunter Rawson	rawpower82@gmail.com	Junior - Chem. E
Webmaster	Parker Hanson	phanson96@gmail.com	Junior - Chem. E
Programs	Michael Stoddard	mnstoddard@gmail.com	Masters - Chem. E
Public Comm.	Jacob Christensen	jacobdchristensen@gmail.com	Senior - Chem. E
Secretary	Jacob Ladd	ladd.jacob@gmail.com	Senior - Chem. E

Major Activities (Outreach, Social, Fundraising, etc.)	Date	No. Attended	Activity Type	Cost
<i>Example:</i> Shadow Day – Hosted prospective NE Undergrads (current high school seniors who have been accepted into the NE program)	2/12/06	12 mem, 12 HS stud	Outreach	\$55
Opening Social - Advertised for our Student section and held activities to encourage members to make friends	9/8/16	50 mem & non-mem	Development	\$100
Chuck Goodnight Lecture - Discussed entering the nuclear industry	9/16/16	28 mem	Development	\$30
BYU Club Rush - Advertised our student section and provided demonstrations, including geiger counters and cloud chambers	9/16/16	6 mem	Outreach	\$10
BYU Fall Pow Wow - Taught Boy Scout Merit Badge	9/24/16, 10/22/16	10 mem 175 scouts	Outreach	\$10
Intern Panel - Discussed internship opportunities in nuclear engineering and the nuclear industry	10/21/16	19 mem	Development	\$30
Professor Research Forum - Professors presented their current research relating to nuclear science	11/10/16	15 mem	Development	\$40

See page 8 for additional activities.

*** Please attach additional pages if necessary. Emphasize outreach activities if possible.

General Summary (Optional)

If desired, please write a brief summary of your section's accomplishments and activities from this past year.

In the 2016-2017 School Year, our ANS Student Section:

- Won first place in the national Student Member-Get-A-Member Campaign
- Hosted a Nuclear Energy & the Environment Symposium with the BYU Environmental Science Club
- Accompanied sections from University of Utah and Utah State University to visit over 100 Utah state legislators
- Hosted educational booths on nuclear science at events with more than 1000 middle school and high school students
- Taught over 300 Boy Scouts the Nuclear Science Merit Badge

Budget

Please enter your section's budget here, or attach an additional page. Break down income into dues, funding from your University's student government, donations, etc. Break down expenditures for each event (e.g. meeting food, social events, outreach program supplies, etc.).

See page 7.

Please submit this form to the ANS Student Sections Committee
at ssc@ans.org by **May 15** of each year.

Certificate of Distinction

To be eligible, your section must complete the forms above in the general Annual Report, have up to date Bylaws and Rules, organize and submit a report on at least one outreach event with enough information for other sections to use, and report an additional event (can be non-outreach) for posting on our website. The outreach event form and other even form are given below—both must be completed to qualify for the COD. Alternatively, submission of a Glasstone application meets all requirements for the COD.

Outreach Event (Include at least 1 photo of the event)

Event Name: BYU Fall Merit Badge Pow Wow

Event Date: September 24, 2016 and October 22, 2016

Number of Attendees: 175 Boy Scouts (Ages 12-17)

Number of ANS Members Involved: 10

Event Description:

BYU ANS recognizes the importance of developing familiarity with nuclear science and engineering among the rising generation, so we teach a Nuclear Science merit badge class to boy scouts every Fall and Winter. Brigham Young University hosts a Merit Badge Pow Wow every semester that brings an average of 7000 boy scouts onto campus. Soon after our club formation, we reached out to the Pow Wow leadership and asked if we could begin teaching a Nuclear Science merit badge class, and they excitedly agreed to let us participate, mentioning that they had wanted to start that class but had previously been unable to find suitable counselors to teach it.

Our first Pow Wow was in 2015. This year, our Fall Pow Wow was held on September 24th and October 22nd. Over the course of two Saturday mornings, we taught three classes of nearly sixty boy scouts the requirements of the Nuclear Science merit badge. The course content includes education on fundamental nuclear science definitions, demonstrations of building electroscopes and atomic models, discussions of careers in the nuclear industry, and a tour of a research laboratory where radioisotopes are used.

Practices we have found helpful for this event are using a powerpoint to teach the classes as a whole, and then dividing the scouts into smaller groups for the tours and for the completion of electroscopes or atomic models. Nearly all of the 175 scouts completed all of the requirements to receive the Nuclear Science merit badge; the only exceptions were those who missed one of the two Saturdays. Ten of our ANS section members volunteered to teach the merit badge classes.



Other Event (Include at least 1 photo of the event)

Event Name: Dr. Andrew Klein Visit and Lecture

Event Date: April 25, 2017

Number of Attendees: 45

Event Type: Guest Lecture

Number of ANS Members Involved: 35

Event Description:

Our ANS Student Section won the 2017 Student Member-Get-A-Member campaign, and consequently we were awarded with a visit from Dr. Andrew Klein, the president of the American Nuclear Society. After his arrival, we took him on a tour around the campus of Brigham Young University. Following the tour, our student section met, and Dr. Klein awarded us with our certificates for coming first place in recruiting the most new members, and third place in the highest number of new students recruited.

Additionally, Dr. Klein gave a presentation on the future of the energy industry, and how we, as students,

can make the biggest impact. After the presentation, he fielded questions for another 30 minutes.

Although the event was held the same week as final exams at BYU, we had a great turnout of over 40 present, when we were expecting only 20 to 30 (which is more typically of our club events). The good turnout is likely due to our advertising, including advertising outside of just club members.



Acct	Class	Amount	Line Description	Jrnl Ref	Journal ID	View Detail	JH Jrnl Date
9250	ENGTC	-1,000.00	From ETLC, club funding		LCOCT01	JE	28-Oct-2016
6100	00000	-200.00	ANS Dues		CASHN748		15-Oct-2016
6100	00000	-420.00	ANS Dues	006263492	CASHN023		05-Oct-2016
6100	00000	-100.00	ANS Donation Robert Penn	006367755	CASHN048		09-Nov-2016
6100	192812	-500.00	ChemEng Donation 16-17				01-Jan-2017
4745	00000	-80.00	ANS Dues	006584728	CASHN104		26-Jan-2017
6100	00000	-120.00	ANS Dues	006622200	CASHN112		07-Feb-2017
6100	00000	-10.00	ANS Membership Dues	006857010	CASHN162		18-Apr-2017
6100	00000	-200.00	ANS Dues				30-Mar-2017
Total Income:		-2,630.00					

6100	00000	29.51	MACEYS PROVO	EX00327669	EXP1616	Y-Expense	04-May-2016
6220	00000	331.50	V74 IDAHO	SALES	PHP16229		29-Feb-2016
6220	00000	327.42	V75 IDAHO	SALES	PHP16229		29-Feb-2016
7000	00000	425.00	SHANE GALLAGHER	EX00298394	EXP1540	Y-Expense	15-Jan-2016
6100	00000	5.56	MACEYS PROVO	EX00376545	EXP1732	Y-Expense	19-Jan-2016
6100	00000	9.47	SMITHS FOOD #4136	EX00376545	EXP1732	Y-Expense	19-Oct-2016
6100	00000	25.72	VISTAPR*VISTAPRINT.COM	EX00364964	EXP1703	Y-Expense	08-Sep-2016
6100	00000	179.47	JOEL JOHNSON	EX00371325	EXP1723	Y-Expense	06-Oct-2016
6100	00000	23.96	JOEL JOHNSON	EX00381616	EXP1739	Y-Expense	28-Oct-2016
6100	00000	16.98	ACE HARDWARE OF PROVO	EX00376545	EXP1732	Y-Expense	19-Oct-2016
6100	00000	39.96	BYU WSC COUGAR CAFE	EX00369157	EXP1712	Y-Expense	21-Sep-2016
6100	00000	10.67	AMAZON.COM	EX00406391	EXP1799	Y-Expense	31-Jan-2017
6100	00000	5.28	AMAZON.COM	EX00407895	EXP1803	Y-Expense	06-Feb-2017
6100	00000	3.17	AMAZON.COM	EX00407895	EXP1803	Y-Expense	06-Feb-2017
6100	00000	8.54	AMAZON.COM	EX00407895	EXP1803	Y-Expense	06-Feb-2017
6100	00000	41.74	ASIAN MARKET	EX00410283	EXP1805	Y-Expense	08-Feb-2017
6100	00000	2.98	BYU CREAMERY ON NINTH	EX00410283	EXP1805	Y-Expense	08-Feb-2017
6100	00000	39.16	JOEL JOHNSON	EX00413568	EXP1813	Y-Expense	21-Feb-2017
6100	00000	8.78	BYU STORE REG #112	EX00421895	EXP1832	Y-Expense	20-Mar-2017
6100	00000	34.02	BYU STORE REG #113	EX00424590	EXP1837	Y-Expense	27-Mar-2017
6100	00000	45.75	BYU TAKEOUT	EX00429316	EXP1848	Y-Expense	11-Apr-2017
6100	00000	39.80	JOEL JOHNSON	EX00420530	EXP1828	Y-Expense	14-Mar-2017
6100	00000	17.83	Lillywhite, Trevor	MSR0097144	CCS0524920		23-Mar-2017
6100	00000	25.00	LITTLE CAESARS 006	EX00421007	EXP1829	Y-Expense	15-Mar-2017
6100	00000	4.13	SMITHS FOOD #4136	EX00425920	EXP1840	Y-Expense	30-Mar-2017
6100	00000	10.51	SMITHS FOOD #4136	EX00425920	EXP1840	Y-Expense	30-Mar-2017
6100	00000	39.95	WM SUPERCENTER #1768	EX00410283	EXP1805	Y-Expense	08-Feb-2017
Total Expense:		1,751.86					

Major Activities (Outreach, Social, Fundraising, etc.)	Date	No. Attended	Activity Type	Cost
Rich Christensen Lecture - Dr. Rich Christensen from the University of Idaho visited and discussed the nuclear engineering program there.	12/8/16	26 mem	Development	\$40
Radiological Dept. Hospital Tour - We visited the Department of Radiology at a local hospital to learn about nuclear science applications in medicine.	1/19/17 to 1/20/17	18 mem	Development	N/A
Utah Nuclear Engineering Student Delegation - 5 of our members accompanied students from University of Utah and Utah State University to speak with 100 Utah State Legislators about nuclear energy.	1/31/17 to 2/1/17	15 mem & non-mem	Outreach	N/A
ANS Nat'l Member Social - Celebrated the conclusion of the Student Member-Get-A-Member campaign	2/4/17	20 mem	Development	\$100
ET Week - Hosted a booth for 1,000 middle school and high school students teaching about nuclear science	2/23/17	7 mem, 1000 stud	Outreach	\$10
Discover STEM - Hosted a booth for 500 middle school students teaching about nuclear science	2/25/17	8 mem	Outreach	\$10
March Social - Announced upcoming elections and activities for our student Section	3/10/17	25 mem	Development	\$50
BYU Spring Pow Wow - taught Nuclear Science Merit Badge to Boy Scouts ages 12-17.	3/11/17, 3/25/17	12 mem, 175 scouts	Outreach	\$10
Nuclear Energy Symposium - Co-hosted a panel on nuclear energy with the BYU Environmental Science Club, with panelists from power utilities, universities, and nuclear industry companies.	3/23/17 to 3/25/17	80 mem & non-mem	Outreach	\$100
Dr. Piyush Sabharwall Lecture - Dr. Sabharwall from Idaho National Labs visited and discussed his research.	4/6/17	20 mem	Development	N/A
ANS Elections - Members could get to know candidates running for leadership positions in the student section. Elections were held online.	4/6/17	20 mem	Development	\$40
Dr. Andrew Klein Lecture - We were awarded certificates for our winning the Student Member-Get-A-Member campaign.	4/25/17	45 mem & non-mem	Development	N/A