



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

Minutes from the ANS NCSD Executive Committee

Hyatt Regency
New Orleans, LA
2016 ANS Summer Meeting
Sunday, June 11, 2016

1. Call to Order

The Executive Committee Chair, Sedat Goluoglu, convened the meeting. A quorum of the Division Officers and Executive Committee members were present. The present serving Division Officers were as follows:

Position	Name
Chair	Sedat Goluoglu
Vice Chair/Chair Elect	John Miller
Treasurer/ Finance Chair	Larry Wetzel
Secretary	Catherine Percher (Secretary-elect standing in for Chad Pope)

Six members of the Executive Committee were present. The serving Executive Committee members and those participating were as follows:

Term Ending June of (Year)	Name	Participating
2018	Tracy Henson	no
2018	Margret Marshall	yes
2018	Jason McCall	yes
2017	Katherin Goluoglu	yes
2017	Andrew Prichard	no
2017	Kevin Reynolds	yes
2016	James Baker	no
2016	Catherine Percher	yes
2016	Ellen Saylor	yes

Additional NCSD members were present providing broad nuclear industry representation {Refer to Appendix A}.

Larry Wetzel requested Francis Alcorn remembrances to provide to the Alcorn family.

The Chair welcomed first time attendees and new division officers and committee members.



2. Chair and Vice Chair Report

The Vice Chair's Report

The vice chair, John Miller, summarized earlier meetings. There is a strong need to increase ANS membership as the society is living off reserves right now. A new diversity policy from ANS was promulgated and will be available on the society's website.

The collaboration site for the division is live and on June 21st (or before) all members will have access to the tool automatically. The vice chair urged members to check their privacy settings as details are automatically filled in based on your ANS membership information. ANS wants the division to put documents on the site in lieu of emails. The listserves might go away in the future, although that is uncertain at the moment. There is a mentor match area on the tool, and members are encouraged to sign up to mentor young members.

ANS has rolled out a Grand Challenge, which is actively soliciting divisions to come up with 1-3 technical challenges we will face as a division and society over the next few years. The top five of all submitted challenges will be what ANS will publicize to the public, congress, etc and actively work to support.

The vice chair discussed creating a division collaboration coordinator for division to interface with the website, reporting abuses, dealing with issues for the site.

The Chair's Report

The chair, Sedat Goluoglu, began by encouraging all division officers to know their roles and ensure our documents describing division roles, committee charters, etc. were up to date.

The chair further elaborated on the Statement of Diversity and Respectful Behavior from ANS. The general chair of every meeting is responsible to ensure it is complied with. Disregard for the policy and disrespectful behavior could result in members being be ousted from the society. Darby Kimball indicated that the policy was created after many instances of unprofessional behavior, including complaints at the last 15 meetings.

The chair challenged the members to work to increase division membership and said that while our membership largely remains stable, there is an overall downward trend. We all have to encourage our coworkers to join ANS.

There was a discussion of how to facilitate conference calls for division officers who can not attend the meeting in person. Polycoms can be obtained for ~\$250. There was discussion of buying a portable one as a division, but there were concerns raised about whether ANS or our hotel locaitons would allow one. The question was raised whether we should buy one as a division. Kevin Reynolds suggested a Jabra system (\$90 per unit from Amazon). The chair will look into the possibility of purchasing a system and ask the appropriate people. After the meeting, the Chair checked with the



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

ANS meetings director who stated that as long as the conference hotel is not a union hotel, there are no restrictions on using personal or Division-owned devices for communication purposes at the governance meetings.

The chair ended the discussion by reminding the division that we need to renew our strategic plan, 5 year goals, and 10 year goals. It was suggested to make a new goals committee to give suggestions to executive committee, which would require a charter. The goals committee could also be tasked with the Grand Challenge, which is due in November. L. Wetzel motioned to start the committee, seconded by Kevin Reynolds. Motion passed. Katherin Goluoglu, Margaret Marshall, Brandon O'Donnell were nominated and approved. Katherin Goluoglu will draft a charter and send it to the executive committee for review.

3. Approval of Previous Meeting Minutes

The minutes for the previous meeting, 2015 Winter Meeting in Washington, DC, were approved by email vote in December of 2016.

4. Committee reports

Program Committee- Deborah Hill

The program committee met just prior to executive committee meeting and the agenda is attached. Six sessions have been scheduled for the 2016 Winter Meeting in Las Vegas, with 6 or 7 scheduled for next summer.

Deb Hill wants to turn over her program committee chairmanship and made a call for a vice chair. Interested parties should talk to Sedat Goluoglu, John Miller, or Deb Hill.

The program committee chair discussed the use of "local champions" (named individuals at each site) to encourage membership.

For the upcoming winter meeting panel session in Chemistry in NCS, a question was raised as to whether the division could we pay for the registration for expert from UK. A motion to pay registration for the UK expert if his management requests, early registration nonmember or member, (approximately \$1K), was passed.

Topical Meeting- Jef Lucchini

The General Chair, Jef Lucchini, introduced himself. On June 11, 2016, ANS approved the topical meeting to be published in the list of list of technical meetings. The General Chair encouraged everyone to submit papers and get involved on committees. Questions can be sent to Chair.

Education Committee- Jason McCall



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

The education committee met earlier in the afternoon. The education committee chair relayed that the committee is currently reaffirming lots of older white papers. Updates on new or recently approved white papers are included in the minutes. Jason McCall is stepping down and Alyse Scurlock is becoming the chair.

Membership Committee

No report

Publications

The Spring/Summer newsletter is out and available on the NCSD website. Presentations are missing from the website and need to be updated. A new chair is needed for this position.

Scholarship

One candidate was selected for the NCSD Scholarship, Zander Mausolff, a graduate student at the University of Florida. There was a discussion on updating the scholarship description and trying to encourage more applicants.

5. 2016 ANS-Student Conference

The students gave a report on the April 2016 ANS Student Conference, which was held in Wisconsin. There were 438 students and 138 professionals in attendance, with a total of \$61,000 raised. There were 157 papers, with only 1 submission to NCS track, and thus NCS was combined with NISD. The criticality paper (student from Penn State) won an NISD-sponsored award of \$250.

The students will be soliciting judges and reviewers for awards at the ANS Winter Meeting.

The next student conference will be held at the University of Pittsburgh on April 6-9, 2017. The theme is Dispelling Nuclear Myths. The students passed out a sponsorship package, which is included in the meeting minutes. Funding can be earmarked for specific uses during the conference. The students suggested that NCSD might want to sponsor a paper award so they can advertise and attract more student papers to our track. Additionally, there is an opportunity to at one of the dinners to sponsor a table, which will be labeled by division.

6. 2016 Salary Survey

Diane Cianflone from headquarters is continuing to work on the NCSD salary survey. The chair distributed a scatter plot of all the data so the membership could see the overall trend of compensation versus years in the industry. The scatterplot is included as an attachment to the minutes.



7. Treasurer Report

The NCSD Treasurer, Larry Wetzel, said the division is in good financial shape and started the year with \$56,000. \$21,000 was put into the scholarship fund. The 2015 Awards Dinner in Washington, DC in November made \$900. The full Treasurer's report is included in the meeting minutes.

A discussion was had concerning the NCSD money given to the student conference. Sedat Goluoglu suggested creating an NCSD award earmark as a way to heighten our profile as a division with the students. As an example, out of a \$500 sponsorship, we could set \$100 for a grad best paper award, \$100 for an undergrad best paper award, and \$300 for general use. The executive committee will vote for sponsoring the student conference as part of the budget approval at winter meeting.

8. Committee Responsibilities

The Chair reminded each committee to ensure a write-up of their responsibilities exists to make transitions easier.

9. Old/Ongoing Business

The Chair relayed that there is a new rewards system for embedding topical meetings to encourage their use instead of stand-alone topical meetings. There is also an allowance for Class 1 meetings to go international.

10. Adjourn

The Chair adjourned the Executive Committee Meeting after a motion was made and seconded.



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

**Nuclear Criticality Safety Division
Executive Committee Meeting
Sunday 12 June 2016
3:00pm – 4:30pm
Hyatt Regency New Orleans
Empire C
New Orleans, LA**

1. Vice Chair's Report
2. Chair's Report
3. E-mail votes since last meeting
Approval of minutes from Washington DC meeting
4. Committee Reports:
 - Program Committee
 - 2017 Topical Meeting in Carlsbad
 - Education Committee
 - Membership Committee
 - Publications/Newsletter/Web Site
 - Scholarship Committee
 - Honors and Awards Committee
5. 2016 ANS-Student Conference (will occur when guests arrive)
6. Salary Survey (Sandi Larsen/Sedat Goluoglu)
7. Treasurer's Report
8. Committee responsibilities (handbook, manual, etc.)
9. Other Old or Ongoing Business
10. New Business

**Nuclear Criticality Safety Division
Executive Committee Meeting
Hyatt Regency New Orleans Hotel
New Orleans, LA
June 2016**



Name	Initial when present
Only those listed below are voting members of your division	
Sedat Goluoglu, Chair	SG
John A. Miller, Vice Chair	[Signature]
Chad L. Pope, Secretary	
Larry Wetzel, Treasurer	[Signature]
Jerry E. Hicks, Immediate Past Chair	
James S. Baker	
Katherin L. Goluoglu	[Signature]
Tracey Henson	[Signature]
Margaret Marshall	[Signature]
James McCall	[Signature]
Catherine M. Percher	[Signature]
Andrew W. Prichard	
Kevin H. Reynolds	[Signature]
Ellen M. Saylor	[Signature]
Others, please PRINT in	(if there is not enough space, feel free to use the other side)
Name	E-mail
Peter Angelo	.angelo1@yr.doe.gov
K	
Bob Wilson	robert.wilson@emcb.eo.e.gov
John Darrell Bess	John.Bess@inl.gov
Chelsea Meaux	clyme2@lanl.gov
Ning Zhang	ning.zhang@lanl.gov
Natasha Glazener	nglazener@lanl.gov

Article B10.2 - A quorum for the transaction of business at all Division (or TG) meetings shall consist of fifteen (15) qualified voters or twenty (20) percent of the qualified voters.

Nuclear Criticality Safety Division
 Executive Committee Meeting
 Hyatt Regency New Orleans Hotel
 New Orleans, LA
 June 2016



Others, please PRINT in

Name	E-mail
Sheun Henderson	sjherde@sandia.gov
ZANDY Shackelford	Wshackelford@NuclearFuelServices.com
Tracy Stover	Tracy.Stover@stis.gov
Darby Kimball	dskimball@gmail.com
Lon Paulson	lon.paulson@ge.com
Ray Sartor	sartor@lanl.gov
Doug Bowen	bowendg@ornl.gov
Donna D'Aquila	Donna.D'Aquila@FBPORTS@gmail.com
David Heinrichs	heinrichs1@llnl.gov
Ronald Knief	raknief@sandia.gov
Jean-Francois (Jf) Lucchini	lucchinjf@protnetworks.net
Zachary Weems	zweems@atumn.nd.edu
DEB HILL	deborah.a.hill@npl.co.uk

Article B10.2 - A quorum for the transaction of business at all Division (or TG) meetings shall consist of fifteen (15) qualified voters or twenty (20) percent of the qualified voters.



American Nuclear Society Student Conference 2017

2017 ANS Student Conference
Pitt ANS Student Section
636 Benedum Hall
3700 O'Hara Street
Pittsburgh, PA, 15213

The ANS Student Conference provides a gathering of some of the most driven and interested students in nuclear science and technology. As a division of ANS, you represent the community and support for the development of the field. This conference provides a great opportunity to reach out to the next generation of nuclear engineers and scientists. We would like to encourage you to make the most out of this conference and reach more students interested in your track.

The best way to take advantage of the conference is by encouraging **paper submissions** among your student membership. By having students present their research and work, more interest can be generated across ANS for your division. **Sponsoring an award** for the best paper and in your technical track would provide a greater incentive for students to submit papers and draw some of the best research being done across the country. If you are interested in sponsoring an award, please let us know early so that we can advertise it well.

At the **opening dinner**, each division will have a table so that students interested in your field will be able to sit with you. Additionally, **hosting a meeting or afternoon break** can give interested students an additional opportunity to network and connect with you. We would be more than happy to work with you to make something like that happen. Please also consider being an official sponsor of the conference to take advantage of more benefits. You can find the **Sponsorship and Exhibition Package** at www.ansstudentconference2017.com to learn what levels of involvement are available to you.

This letter also serves as a solicitation of **judges and reviewers for paper submissions**. If any of your members are interested, please let us know at technical.ansstudent2017@gmail.com, but we won't start contacting those who sign up until after the winter meeting in November. For other questions, please contact us at ansstudentconference2017@gmail.com or at 412-330-1156.

Sincerely,

Handwritten signature of Brendan Stack in black ink.

Brendan Stack
General Co-Chair

Handwritten signature of Miriam Rathbun in black ink.

Miriam Rathbun
Marketing Co-Chair

Handwritten signature of Christopher D'Angelo in black ink.

Christopher D'Angelo
Technical Director



ANS Winter Meeting

November 6-10, 2016 · Las Vegas, NV

Critical Experiments Workshop

for ANS Young Members & Students

**National Criticality Experiments Research Center
Nevada National Security Site**

Thursday, November 10, 2016

Bus transportation departs Caesars Palace 7:30 am, returns 7:30 pm

Critical experiments support a variety of national security missions, including nuclear nonproliferation, counterproliferation, criticality safety research and development, nuclear emergency response, and hands-on training.

Join this special workshop to:

- Participate in an experiment using the National Criticality Experiments Research Center's (NCERC) stores of special nuclear materials used for research and training
- Hear presentations and demonstrations about critical experiment design, execution, and measurements
- Visit the 1,280' wide x 320' deep Sedan Crater, formed in 1962 during an excavation experiment using a 104 kiloton thermonuclear device

Space is limited. Plan ahead. Register for this workshop with your 2016 ANS Winter Meeting registration. See <http://answinter.org/> for more information. Registration for the workshop closes Wednesday, August 31 or until sold out. Only US citizens may register. \$150 per person - includes workshop, transportation, and boxed lunch.

Need more information now? Email:

Rian Bahran bahran@lanl.gov

Jesson Hutchinson jesson@lanl.gov



Agenda —

Thursday, November 10th

7:30 am

Depart from Hotel
(3 hours for travel and badging)

11:00 am

**Technical Presentations on
Critical Experiments**
(1.25 hours)

12:15

Lunch (45 minutes)

1:00 pm

**Below Critical Experiment
Demonstration** (1.5 hours)

2:30 pm

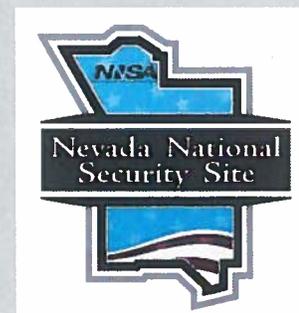
Critical Experiment Demonstration
(1.5 hours)

4:00 pm

Depart for Sedan Crater

7:30 pm

Arrive at Hotel



Co-sponsors [Nuclear Nonproliferation Policy Division
Young Members Group
Nuclear Criticality Safety Division

American
Nuclear
Society

Sponsorship and Exhibition Package



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DISPELLING NUCLEAR MYTHS

Student
Conference

University of
Pittsburgh

April 6-9, 2017

ANSStudentConference2017@gmail.com

2017 American Nuclear Society Student Conference
University of Pittsburgh ANS Student Section
636 Benedum Hall
3700 O'Hara Street
Pittsburgh, PA, 15213



As the hosts of the 2017 American Nuclear Society Student Conference, the University of Pittsburgh ANS student section is pleased to announce that the conference will be held **Thursday, April 6th through Sunday, April 9th 2017 at the Omni William Penn Hotel in downtown Pittsburgh**, Pennsylvania. Each year, this conference marks an opportunity for both undergraduate and graduate students to network, develop their professional skills, and present their research. The roots of the weekend are firmly planted in the dissemination of information and research to others in the field. We sought to emphasize this role of students by making the theme of our conference "Dispelling Nuclear Myths."

The University of Pittsburgh and the Greater Pittsburgh area are fertile ground for nuclear research and technology. We expect **450 students and 150 professionals in attendance**. As described in this sponsorship and exhibition package, attending this conference provides many avenues through which you can **exhibit your organization** and continue making inroads with ANS students, the best of **tomorrow's nuclear workforce**.

All sponsors and exhibitors will participate in the **career fair** which is a highlight of the conference for many of our student attendees. A **six-foot table** will be provided for your recruiting materials. Sponsors will be advertised through the **program, website, and app**. Additionally, higher sponsors will have their logo on **gift bag items** and the **conference T-shirt**.

Modernizer, Pioneer, and Trailblazer sponsors will be invited to provide a **keynote speaker** at a dinner or breakfast plenary. Three dinners are held on Thursday at the hotel (opening dinner), Friday at Heinz Field (networking dinner), and Saturday at the hotel (awards ceremony). The breakfast plenaries are on Friday and Saturday morning and are meant to bring the conference body together to begin the day.

Other opportunities to address students include **lunch & learns, workshops, or panels**. A lunch & learn is an information session hosted over lunch provided by the conference. Two lunch & learns will be available concurrently on both Friday and Saturday in the largest rooms. In a workshop, you can attract students who want to develop a technical skill using your company's software for example. By naming a panel, you can put a representative from your organization on the panel to contribute to the discussion. Finally, sponsors will be invited to name **technical sessions and the poster session** where students are presenting their research, **or a social** on Thursday, Friday, or Saturday night. Any event hosted or named by your organization will display your logo on signs and advertisements.

We hope that you will find many interesting ways of partnering with Pitt ANS for the 2017 Student Conference! We very much look forward to working with you. If you have any additional questions, please reach out to us at ANSstudentconference2017@gmail.com, or at 412-330-115. Updated information can be found on our website: www.ANSstudentconference2017.com.

Sincerely,

Handwritten signature of Miriam Rathbun in black ink.

Miriam Rathbun
Marketing Co-Chair

Handwritten signature of Brendan Stack in black ink.

Brendan Stack
General Co-Chair

Sponsorship Benefits

Modernizer \$35,000+

- Provide a keynote speaker at the conference dinner or breakfast plenary of your choosing
- Name, host, or participate in a workshop, panel, and/or two technical sessions
- Hold a company-specific mock interview session
- Name 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

Pioneer \$20,000-\$34,999

- 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
- Showcase logo on the conference T-shirt
- Choose two adjacent career fair booths
- Fees waived for five full-meeting registrations and one career fair only registration
- Have multiple tables near the front of the networking dinner

Trailblazer \$15,000-\$19,999

- Provide a keynote speaker at one of the two breakfast plenaries
- Name and participate in a workshop, panel, or two technical sessions
- Receive a full page ad in the conference program
- Showcase logo on a gift bag item provided by the conference
- Choose a highly visible career fair booth
- Fees waived for four full-meeting registrations and one career fair only registration
- Have multiple tables at the networking dinner

Trendsetter \$10,000-\$14,999

- 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
- Showcase logo on a gift bag item provided by the conference
- Be invited to participate in the career fair
- Fees waived for three full-meeting registrations and one career fair only registration
- Have two tables at the networking dinner

Groundbreaker \$7,500-\$9,999

- Have the opportunity to name two technical sessions
- Receive a half-page ad in the conference program
- Showcase logo on a gift bag item provided by the conference
- Be invited to participate in the career fair
- Fees waived for two full-meeting registrations and one career fair only registration
- Have a table at the networking dinner

Beacon \$5,000-\$7,499

- Have the opportunity to name a social
- Receive a quarter page ad in the conference program
- Provide a logo item for the gift bag
- Be invited to participate in the career fair
- Fees waived for one full-meeting registration and one career fair only registration
- Have a table at the networking dinner

Guide \$2,000-\$4,999

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

Contributor < \$2,000

- Receive recognition in the conference program

Gift Bag Items

- Adhesive ID Holder
- Circle Magnet
- Lanyard
- Microfiber Rag
- Notepad
- Pen
- Umbrella
- Water Bottle

Exhibition opportunity

Different from sponsors, exhibitors are welcome to come recruit at the conference.

Exhibitor \$5,000

- Be invited to participate in the career fair
- Fees waived for one full-meeting registration and one career fair only registration
- Have a table at the networking dinner

Career-Fair booth price \$2,000

- Includes one career fair only registration



Opportunities by line item

This list shows minimum prices for each item. A high level sponsor may be eligible for lower tier items.

Modernizer: \$35,000	
Poster Session	Naming rights
Mock Interview Session	Hosting rights

Pioneer: \$20,000	
Thursday Opening Dinner	Keynote speaker
Friday Networking Dinner	Keynote speaker
Saturday Awards Ceremony	Keynote speaker

Trailblazer: \$15,000	
Friday Breakfast Plenary	Keynote speaker
Saturday Breakfast Plenary	Keynote speaker

Trendsetter: \$10,000	
Friday Lunch & Learn 1	Hosting rights
Friday Lunch & Learn 2	Hosting rights
Saturday Lunch & Learn 1	Hosting rights
Saturday Lunch & Learn 2	Hosting rights
Workshops:	
Complete list coming soon	Naming rights
Panels:	
Complete list coming soon	Naming rights

Groundbreaker: \$7,500	
Technical Sessions:	
Complete list coming soon	Naming rights
Adhesive ID Holder	Choose one item to display your logo
Circle Magnet	
Lanyard	
Microfiber Rag	
Notepad	
Pen	
Umbrella	
Water Bottle	

Beacon: \$5,000	
Thursday Night Social*	Naming rights
Friday Night Social*	Naming rights
Saturday Night Social*	Naming rights

*there may be multiple socials each night, more information coming soon



American Nuclear Society
Nuclear Criticality Safety Division
Program Committee Minutes

2016 Summer Meeting
New Orleans – Hyatt Regency ; Empire C
Sunday 12th June
2:00 – 3:00pm
Chair: Deborah Hill

1. Welcome, Sign in Sheet

2. Administrative Aspects

a. Confirmation of Current Program Committee Membership

The Program Committee Chair confirmed the current membership of the committee from the end of the weeks onwards, as follows:

Chair: Deborah Hill

Vice Chair: None at present

Members – Division Chair (John Miller), Division Vice-Chair (Deborah Hill), Immediate Past Division Chair (Sedat Goluoglu), Katherin Goluoglu, Peter Angelo, John Bess, Jerry Hicks, Brad Rearden, Margaret Marshall, Kristan Wessels, Catherine Percher

The Chair requested volunteers for a new Vice Chair for the Program Committee (with a view to them taking over as Chair), as she would like to step down in the next year. Theresa Cutler volunteered to be Vice Chair, pending approval from her employer.

b. Paper Reviewers

The chair thanked the current paper reviewers and reminded those present to indicate on the sign-in sheet if they were willing to become paper reviewers. The review process for the Summer 2016 conference required over 50 reviews and seemed to work smoothly as the Chair solicited volunteers for paper reviews by circulating the titles to the entire group of reviewers.

3. Finalize Details for 2016 ANS Annual Meeting (New Orleans, LA ; 12th – 16th June 2016)

The Chair informed the committee that the current meeting received over 20 papers for presentation, or 10% of the total papers for the meeting. There will be six full sessions and a number of best paper awards will be given out at the Winter Meeting.

4. Finalize Details for 2016 ANS Winter Meeting (Las Vegas, NV ; 6th – 10th November 2016)

The paper deadline for the Winter Meeting will be extended. The chair encouraged all attendees to submit papers and tell their coworkers the deadline is extended. Six NCSD sessions will be part of the winter meeting: 1) Recent Nuclear Criticality Safety Program Technical Accomplishments, 2) Data, Analysis and Operations in Nuclear Criticality Safety, 3) The Impact of Chemistry in Nuclear Criticality Safety Evaluations, 4) ANS-8

Standards Forum, 5) Critical and Subcritical Experiments (Co-Sponsored with NNPD), and (6) A Career Lessons panel (Co-Sponsored with NISD).

A motion was discussed regarding paying for a UK expert's ANS meeting registration as he will be an invited panel speaker for the session entitled, "The Impact of Criticality in Nuclear Criticality Safety Evaluations." The motion will be brought up in the NCS Executive Committee meeting.

5. Develop Sessions for 2016 ANS Annual Meeting (San Francisco, CA ; 11th – 15th June 2017)

Suggested sessions were distributed with the meeting agenda (attached to the minutes). The sessions discussed for the meeting were the following:

Routine Sessions:

- Data, Analysis, and Operations in Nuclear Criticality Safety
- ANS-8 Standards Forum

New Sessions:

- Sharing of Good Industry Practices in Criticality Safety / Lessons Learned
- Legacy Talk with NCS Pioneers
- Use of Critical Facilities
- Poster Session on ANS-8 Standards
- Criticality Alarm Systems
- Spent Fuel Pools

The Chair needs 100 word summaries of each new session to be submitted to ANS headquarters in the near future.

6. Update on 2017 NCS Topical Meeting

The chair gave a report on the NCS Topical Meeting to be held in Carlsbad, NM in September of 2017. Currently, committees are being formed and a publications chair and vice chair have been identified. Hotels have been visited and the conference center in Carlsbad has been booked. Sedat Goluoglu will be the Program Chair.

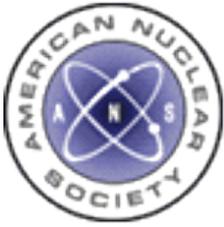
7. Any Other Business

a. Local Champions for NCS Matters

Some limited discussion was had regarding the utility of formally nominating single individuals at each site to champion the NCS division, encourage papers, and act as a conduit for timely information.

b. Attendance Sheets

The chair encouraged the group to be sure to sign the attendance sheets at each NCS session, as that is how ANS decides the size of the room to schedule for future sessions.



American Nuclear Society
Nuclear Criticality Safety Division
Program Committee Agenda

2016 Summer Meeting
New Orleans – Hyatt Regency ; Empire C
Sunday 12th June
2:00 – 3:00pm
Chair: Deborah Hill

8. Welcome, Sign in Sheet
9. Administrative Aspects
 - a. Confirmation of Current Program Committee Membership
Chair: Deborah Hill
Vice Chair: None at present
Members – Division Chair ; Division Vice-Chair ; Immediate Past Division Chair ;
Katherin Goluoglu ; Peter Angelo ; John Bess ; Jerry Hicks ; Brad Rearden ; Margaret Marshall ;
Kristan Wessels ; Catherine Percher
Other Candidates – ????
 - b. Paper Reviewers
10. Finalise Details for 2016 ANS Annual Meeting (New Orleans, LA ; 12th – 16th June 2016)
11. Finalise Details for 2016 ANS Winter Meeting (Las Vegas, NV ; 6th – 10th November 2016)
12. Develop Sessions for 2016 ANS Annual Meeting (San Francisco, CA ; 11th – 15th June 2017)
13. Update on 2017 NCSD Topical Meeting
14. Any Other Business
 - a. Local Champions for NCSD Matters
 - b. Attendance Sheets

NCSD Session Chairs and Alternate Chairs for 2016 ANS Annual Meeting New Orleans

<u>Criticality for Spent Fuel Pools and Transport Casks</u>		
<i>Monday 1:00 P.M. ; Bolden 5</i>		
Session Organizer(s)	Chair	Alternate Chair
Dale Lancaster (Nucl. Cons.)	William Marshall (ORNL)	TBA
<u>Data, Analysis, and Operations for Nuclear Criticality Safety - I</u>		
<i>Tuesday 8:30 A.M. ; Bolden 5</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	Theresa Cutler (LANL)	Joseph Cashwell (Univ. Florida)
<u>Data, Analysis, and Operations for Nuclear Criticality Safety - II</u>		
<i>Tuesday 1:00 P.M. ; Bolden 5</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	Alexander Mausolf (Univ. Flor.)	Dustin Popp (Univ. Florida)
<u>Data, Analysis, and Operations for Nuclear Criticality Safety - III</u>		
<i>Wednesday 8:00 A.M. ; Bolden 5</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	John Miller (SNL)	Jerry Hicks (Retired)
<u>Sharing of Good Industry Practices in Criticality Safety</u>		
<i>Wednesday 1:00 P.M. ; Bolden 5</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	Deborah Hill (NNL)	Catherine Percher (LLNL)
<u>ANS 8 Standards – Forum</u>		
<i>Thursday 8.00 A.M. ; Maryland C</i>		
Session Organizer(s)	Chair	Alternate Chair
Brian Kidd (Paschal Solutions)	Doug Bowen (ORNL)	TBA

NCSD Session Chairs and Co-Chairs for 2016 ANS Winter Meeting Las Vegas

The 2016 ANS Winter Meeting will be held from 6th – 10th November 2016, and the Call for Papers for the meeting is available on the ANS Website. The associated deadlines are:

- Submission of Summaries – 10th June 2016 *{Normally extended by approx. 3-4 weeks}*
- Author Notification of Acceptance – 28th July 2016
- Revised Summaries Due – 11th August 2016

Section 12a. Session Title: “Recent Nuclear Criticality Safety Program Technical Accomplishments”

Session Type: Contributed Papers

Session Organiser: Lori Scott

Session Chair:

Alternate Chair:

Summary: The Nuclear Criticality Safety Program (NCSP) has been doing interesting technical work supporting the DOE criticality safety enterprise, as well as benefiting the nuclear community as a whole. There are few opportunities to learn about these efforts since they cannot all be presented at an ANS meeting. However, an NCSP Technical Seminar was held. The goal of this seminar was to have each NCSP Task Manager present their technical results from FY2015. Specifically, the presentations provided a summary of: the work that was done; why the work was done; and who benefited from the work or could potentially benefit across the DOE as well as the nuclear complex. This led to an opportunity for the NCSP to showcase outstanding NCSP technical accomplishments and as a result, the best technical results that will have the most benefit to the nuclear community as a whole have been compiled and those presenters will provide these technical results at the 2016 ANS Winter Meeting.

Section 12b. Session Title: “Data, Analysis and Operations in Nuclear Criticality Safety”

Session Type: Contributed Papers

Session Organiser: Deborah Hill

Session Chair:

Alternate Chair:

Summary: The purpose of this session is to provide a forum for timely presentation of general issues in the area of nuclear criticality safety that are not covered in other special session topics.

Session 12c. Session Title: “The Impact of Chemistry in Nuclear Criticality Safety Evaluations”

Session Type: Panel

Session Organiser: Deborah Hill

Session Chair:

Alternate Chair:

Summary: Different nuclear safety considerations apply to each stage of the nuclear fuel cycle. However, reprocessing and recovery facilities present a unique challenge because the diversity of the physical, chemical and isotopic forms results in the criticality safety professional often needing to have a detailed understanding of the chemistry of the process (e.g. because of concerns about unplanned precipitation / separation). The aim of this tutorial is to provide the attendees with an enhanced appreciation of this subject area and, in particular, specific related issues that the criticality safety professional may need to consider as part of their evaluations.

Section 12d. Session Title: “ANS-8 Standards Forum”

Session Type: Discussion

Session Organiser: Brian Kidd

Session Chair:

Alternate Chair:

Summary: Subcommittee ANS-8, Operations with Fissile Material Outside Reactors, meets to discuss various technical and administrative aspects of the approximately 20 national consensus standards under its purview. In addition to status and progress updates by representatives of individual working groups, formal presentations on the technical bases of numerical values such as subcritical limits and experiences with applications of particular standards are solicited. Agenda topics such as new and expanded standards are also encouraged.

Session 14c. Session Title: “Critical and Subcritical Experiments” [Co-Sponsored with NNPD]

Session Type: Contributed Papers

Session Organiser: Rian Bahrn

Session Chair: William Myers

Alternate Chair: TBC by NNPD

Summary: Critical and subcritical experiments are performed every year to support a variety of national security missions, including nuclear nonproliferation, counterproliferation, criticality safety research and development, nuclear emergency response, and a variety of hands-on training. Papers on critical and subcritical experiments (design, measurement, analysis, methods) will showcase current work in this area.

Session Ideas for 2017 ANS Annual Meeting San Francisco, CA

Routine Sessions

1. Data, Analysis and Operations in Nuclear Criticality Safety
2. ANS 8 Standards Forum
3. Sharing Good Industry Practices in Criticality Safety ?

Other Possible Sessions

4. Near Misses / Incidents *[JM]*
5. Latest Benchmark Contributions to Criticality Safety *[JB]*
6. Legacy Style Talks / Learning from Pioneers – Knowledge Transfer – Passing onto to next generation of NCS Engineers *[Previous / PA]*
7. Medical Isotope Production *[PA]*
8. Uncertainty *[JH]*
9. Nuclear Accidents *[AP]*
10. Criticality Safety Programs on International Stage *[KG]*
11. Integrating Safety, Security and Safeguards *[KG]*
12. Novel Equipment / Solutions to Criticality Safety Issues (or Beyond Safe Geometry) *[KG]*
13. Burn-Up Credit in Current Operations *[KG]*
14. Real World Application of Sensitivity / Uncertainty *[KG]*
15. Latest Needs from a Users Forum *[KG]*
16. Implementing Active Controls in Digital World *[KG]*
17. Joint Sessions with Human Factors / Young Members Group *[DAH]*

NCSD Program Committee Meeting, Sunday 12th June 2016

Name	Signature	Organization	Email Address	Wish to be Paper Reviewer?
1 Vin Felty		SSI, Inc	jvfelty@stgwesoft.com	
2 Lori Scott		NCSP	lori.scott@aol.com	NCSP only winter AHS
3 Jamie Sweers		NCSP	jsweers@lanl.gov	
4 Doug Bowen		NCSD	bowendg@ornl.gov	yes
5 Lon Paulson		GEH	lon.paulson@ge.com	y
6 Tracy Stover		SRNS	Tracy.Stover@srs.gov	yes
7 David Young		NNSA/NPO 4-12	david.young@doe.npo.gov	
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NCSD Program Committee Meeting, Sunday 12th June 2016

Name	Signature	Organization	Email Address	Wish to be Paper Reviewer?
1 DEB HILL	Deborah Hill	NNL	deborah.a.hill@nnl.co.uk	YES.
2 Zachary Neems	Zachary Neems	Univ. Florida	zweems@alumni.nf.edu	
3 Ethan Reisker	Ethan Reisker	University of Florida	ethan.reisker@cox.net	
4 Jack Illafe	Jack Illafe	AFO Research	jack.illafe@aforesearch.com	yes
5 Darren Skitt	Darren Skitt	University of Florida	skitt@j.c.yahoo.com	
6 Zander Mausloff	Zander Mausloff	UF	zander@uf.edu	
7 David Ames	David Ames	SNL	deames@sandia.gov	
8 Alyse Scarlock	Alyse Scarlock	Pure Energy	Alyse.Scarlock@duke-energy.com	Yes.
9 Natasha Glazner	Natasha Glazner	LANL	ngl@glazner@lanl.gov	
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NCSD Program Committee Meeting, Sunday 12th June 2016

Name	Signature	Organization	Email Address	Wish to be Paper Reviewer ?
1 John Miller		Sandia	millerj@sandia.gov	YES
2 Dawn Henderson		Sandia	sjhende@sandia.gov	NO
3 Peter Angelopoulos		Y-12	angelop@y12.doe.gov	Y
4 Jason McCall		CNS (Y-12)	mccallj@y12.doe.gov	YES
5 William R Conner		CNS	jasonjmc@y12.doe.gov	Y
6 Trey Kaverz		DOE	DKL@y12.doe.gov	YES
7			Trey.Kaverz@NPD.DOE.GOV	
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NCSD Program Committee Meeting, Sunday 12th June 2016

Name	Signature	Organization	Email Address	Wish to be Paper Reviewer?
1 Ken Haer		NUSA	Ken.Haer@nsl.doe.gov	NO
2 Catherine Pacheco		LANL	pacheco1@lanl.gov	Yes
3 KEVIN REYNOLDS		CNS Y-12	KEVIN.REYNOLDS@CNS.DOE.GOV	YES
4 EUGEN SAYLOR		ORNL	saylor@mornl.gov	YES
5 Robert Wilson		DOE/EM	robert.wilson@emebc.doe.gov	YES
6 Theresa Cutter		LANL	tcutter@lanl.gov	YES
7 Larry Wetzel		BuxT	lwetzel@buxt.com	Yes
8 Margaret Marshall		INL	Margaret.Marshall@inl.gov	Yes
9 John Dorell Bess		JNL	John.Bess@inl.gov	Yes
10 CHELSEA WEAVER		LANL	Cynne21@ lanl lanl.gov	NO
11 Ning Zhang		LANL	Ning.Zhang@lanl.gov	YES.
12 Peter Angelo		4-12	angelop1@y12.doe.gov	Y
13 Dale Lancaster		NuclearConsultants.com	dale@nuclearconsultants.com	Yes
14				
15				
16				



Minutes from the ANS NCSD Education Committee

Hyatt Regency Hotel
New Orleans, LA
2016 ANS Summer Meeting
Sunday June 12, 2016

1. Call to Order

The Committee Chair, Jason McCall, convened the meeting. An agenda was prepared and is attached, as well as a current membership listing.

2. Approval of Previous Meeting Minutes

The minutes for the previous meeting, 2015 Winter Meeting in San Antonio, TX, were approved previously via email, so no vote was held.

3. Old/New Business

The chair reminded the committee that any white papers dated 2009 or prior must be reaffirmed. The committee is in the process of reviewing the white papers.

4. Committee Whitepapers Update

Additional details on whitepaper updates are included in the attached meeting notes handed out at the meeting.

Nuclear Criticality Safety Evaluations White Paper: John Miller sent updated draft and is currently working on resolving comments. The paper will be resubmitted to the education committee for approval after the comments are resolved.

Integrating Nuclear Criticality Safety into Design White Paper: Kevin Reynolds is working to resolve comments and the paper will need to be resubmitted for approval.

NCSD White Paper Overview: Published on NCSD webpage.

Process Lifecycle White Paper: Published on NCSD webpage.

Successful NCS Mentorship Program White Paper: Reaffirmed via email, and NCSD website needs to be updated.

Nuclear Criticality Accidents in the Workplace: Fact sheet: Reaffirmed by the primary author and the NCSD Education Chair. Website needs to be updated.



5. Workshops/Tutorials- Current Future

Uranium Chemistry Tutorial: Howard Greenwood would benefit from additional assistance, and the tutorial will be postponed until several contributing papers are available for reference.

6. Closing Remarks/Questions

The outgoing chair thanked Deb Hill and John Miller for their assistance. He then introduced the new chair, Alyse Scurlock.

John Miller suggested a potential white paper giving an overview of ANS and the NCSD directed at young members. It was mentioned that a NCSD membership brochure exists, but might need to be refreshed.

Rolling out a new collaboration tool with ANS- need to direct traffic to the website, perhaps the survey is a good place to direct people.

There was a discussion of the newsletter and its functionality. Through an informal poll (show of hands), most people attending the committee meeting were aware of the newsletter, but not many had read it. The newsletter is difficult to get volunteers to write and the discussions centered on how to better coordinate the writing of the newsletter.

7. Adjourn



AMERICAN NUCLEAR SOCIETY
Nuclear Criticality Safety Division

**Nuclear Criticality Safety Division
Education Committee Meeting
Sunday, June 12, 2016, 1:00 pm – 2:00 pm
Hyatt Regency New Orleans
New Orleans, LA**

Mission Statement: "To promote development of nuclear criticality safety expertise by providing opportunities that offer technical growth and recognition."

- | | |
|---|----------------|
| 1. Call to Order / Opening Remarks | Jason McCall |
| 2. Approval of previous meeting minutes | Jason McCall |
| 3. Old/New Business | Jason McCall |
| 4. Committee Whitepapers Update | Jason McCall |
| 5. Workshops/Tutorials - Current/Future | Jason McCall |
| 6. Closing Remarks/Questions | Alyse Scurlock |
| 7. Adjourn | |

Members: See attached NCSD Education Committee Contact and Membership List

NCSD Education Committee Contact and Membership List

Name	Organization	Email Address
Committee Chair		
Jason McCall	Y-12 NSC	mccallj1@y12.doe.gov jasonjmccall@gmail.com (Please use both email addresses)
Voting Members		
John Bennion	GEH	john.bennion@ge.com
David Erickson	SRS	dg_erickson@blueheron.us
Katherin Goluoglu	-----	klgoluglu@hotmail.com
Kevin Hahn	NNSA	kevin.hahn@nnsa.doe.gov
Deborah Hill	NNL (UK)	deborah.a.hill@nnl.co.uk
Jim Morman	ANL	jamorman@anl.gov
Robert Wilson	DOE EMCBC	robert.wilson@emcbc.doe.gov
Dominic (Fred) Winstanley	Sellafield Ltd	ddw1@sellafieldsites.com
John Miller	Sandia National Labs	millerj@sandia.gov
Alyse Scurlock+	Duke Energy	alyse.scurlock@duke-energy.com
Kevin Reynolds	Y-12 NSC	reynoldskh2@y12.doe.gov
Lon Paulson	General Electric	Lon.Paulson@ge.com
Non-Voting Members		
Peter Angelo	Y-12 NSC	angelopl@y12.doe.gov
Mikey Brady-Rapp*	PNNL	michaele.bradyraap@pnnl.gov
Sedat Goluoglu*	U Florida	goluglu@mse.ufl.edu
David Hayes	LANL	dkhayes@lanl.gov
Sandi Larson*	NSA	sandi.larson@atkinsglobalns.com
Kristan Wessels*	Y-12 NSC	wesselskm@y12.doe.gov
Bonnie Rumble*	Paschal	bonnie.rumble@gmail.com
Fitz Trumble	URS	fitz.trumble@urs-ps.com
Ning Zhang*	LANL	ning.zhang@lanl.gov
Jerry Hicks*	US DOE NNSA	jerryhicks@aol.com
Antonio Ardila	LANL	ardila@lanl.gov
Joe Cashwell*	UFL	jcashwell@ufl.edu
Larry Wetzel*	B&W	llwetzel@verizon.net
Dustin Popp*	U Florida	dpopp07@ufl.edu
Chad Pope*	ISU	popechad@isu.edu

* Non-Voting Member has requested to be copied on white paper correspondence for "Information Only" purposes. The Comments/Comment Resolution process is reserved for Voting Members ONLY. Non-Voting Members are allowed to become Voting Members with Education Committee Chair approval.

+ Designated as backup Committee Chair.

ANS Annual (Summer) Meeting 2016 Old/New Business Notes

Date: Sunday June 12, 2016

Time: 1:00 pm - 2:00 pm

Location: Hyatt Regency New Orleans, New Orleans, LA

Why do we do white papers?

"In essence, they were established so that the division could fill holes and gaps in the standards with the idea that white papers may even eventually turn into standards themselves. Other purposes were to address issues confronting the community, to help disseminate best practices and lessons learned, and to provide any NCSD position statements."

Old Business:

- No updates.

New Business:

- All white papers listed on the NCSD webpage dated 2009 or prior must be reaffirmed.
- For additional New Business see action item discussions with **New Information Added** in the title.

Action Item (1): *TAKEN FROM ANNUAL (WINTER) 2015 MEETING MINUTES*

- John Miller sent an updated draft of the Nuclear Criticality Safety Evaluations whitepaper to Jim Baker and Jim and John are still in the comment resolution phase.

Action Item Update (1): *NEW INFORMATION ADDED*

- John Miller is still working on resolving existing comments. Needs to be resubmitted to Education Committee for approval once the comments are resolved.

Action Item (2): *TAKEN FROM ANNUAL (WINTER) 2015 MEETING MINUTES*

- The Education Chair requested to have the Executive Committee vote on the Integrating Nuclear Criticality Safety into Design white paper because he was not aware of any existing comments left to resolve after the 60-Day posting period.

Jim Baker stated the following via email "This paper suffers a number of defects. I have put several comments in the attached draft, which must be addressed before I would approve it. Moreover, it has a high "fog" index. That is, it has many big words & long sentences. This detracts from its worth as a teaching tool for new practitioners. I would urge the Education Committee to rewrite it with less fog. I did comment on a previous draft of this paper in May 2012, per my notes. Some of those comments were addressed, some not. I think we should be getting more input when something is posted on the website. Perhaps we need to advertise this process further among the community. "

The Integrating Nuclear Criticality Safety into Design white paper should be revised to address Jim Baker comments. The Education Committee is currently seeking volunteer(s) to address Jim's comments and improve the white paper overall.

ANS Annual (Summer) Meeting 2016 Old/New Business Notes

Action Item Update (2): NEW INFORMATION ADDED

- Kevin Reynolds is still working on resolving existing comments. Needs to be resubmitted to Education Committee for approval once the comments are resolved.

Action Items (3): TAKEN FROM WINTER 2015 MEETING MINUTES

- The NCS White Paper Overview and Process Lifecycle white paper has been published and the two old white papers which were combined are stored on the NCS webpage.

Current Status of Successful NCS Mentorship Program white paper - Education Chair and Education Committee members have reaffirmed this white paper via email. The NCS webpage needs to be updated.

Current Status of Nuclear Criticality Accidents in the Workplace: Fact Sheet - John Miller has been sent several comments for review.

New Primary Authors: Kristan Wessels - Successful NCS Mentorship Program.
John Miller - Nuclear Criticality Accidents in the Workplace: Fact Sheet

Action Items Update (3): NEW INFORMATION ADDED

- The Nuclear Criticality Accidents in the Workplace: Fact Sheet has been reaffirmed by the primary author and the NCS Education Chair. The NCS webpage needs to be updated with reaffirmed white paper.
- The reaffirmed Successful NCS Mentorship Program white paper still needs to be uploaded on the NCS webpage.

Action Items (4): TAKEN FROM WINTER 2015 MEETING MINUTES

- The Education Chair has asked Deb Hill about the status of Howard Greenwood and the Uranium Chemistry Tutorial. Deb Hill stated that she will be contacting Howard Greenwood.

Action Items Update (4): NEW INFORMATION ADDED

- It was determined that Howard Greenwood would really benefit from additional assistance. This tutorial will be postponed until several contributing papers are available for reference.

Action Items (5): TAKEN FROM WINTER 2015 MEETING MINUTES

- Katherin Golouglu stated that the updated NCS survey is completed and the delivery mechanism is being finalized.

Action Items (5): NEW INFORMATION ADDED

- Once survey data is gathered the serving Education Chair will start working on an Action Plan report.

NCS D Honors and Awards Committee Report
June 12, 2016

1) Best Paper Selection

- Deb Hill has graciously agreed to handle the selection of the Best Paper at the summer meeting.
- Is there anyone who would like to volunteer to help Deb?

2) Distinguish Service & Technical Excellence Awards

- Nominations for **Distinguished Service & Technical Excellence** awards are due by August 31.
- The list of previous winners is provided on the NCS D website (also attached for quick reference).
- **NCS D has some well-deserving individuals who have never been recognized.**
- Please take time to identify those individuals who deserve recognition and submit nominations by August 31.
- Instructions for submitting nomination is provided on the NCS D website.

3) Lifetime Achievement Award

- Little progress has been made since the 2015 Winter Meeting.
- The recent loss of Francis Alcorn should motivate us to get the award in place so NCS D can recognize those individuals while they are living.
- Provided below is the proposed schedule for planning purposes.

Task	Responsible	Date	Comment
Prepare proposal for Lifetime Achievement (LA) Award & submit to H&A committee	Henson	6/30/16	
Review proposal and provide feedback	NCS D H&A Committee	7/15/16	
Resolve comments and obtain concurrence from H&A committee	Henson	7/30/16	
Review proposal and provide feedback	NCS D Exec. Committee	8/15/16	
Resolve comments and obtain concurrence from NCS D Exec. Committee	Henson	8/30/16	
Submit proposal for LA award to ANS Honors & Award Committee	Henson	9/1/16	ANS H&A Committee requires proposals be submitted 60 days prior to Nat'l Meeting.

4) Awards Dinner

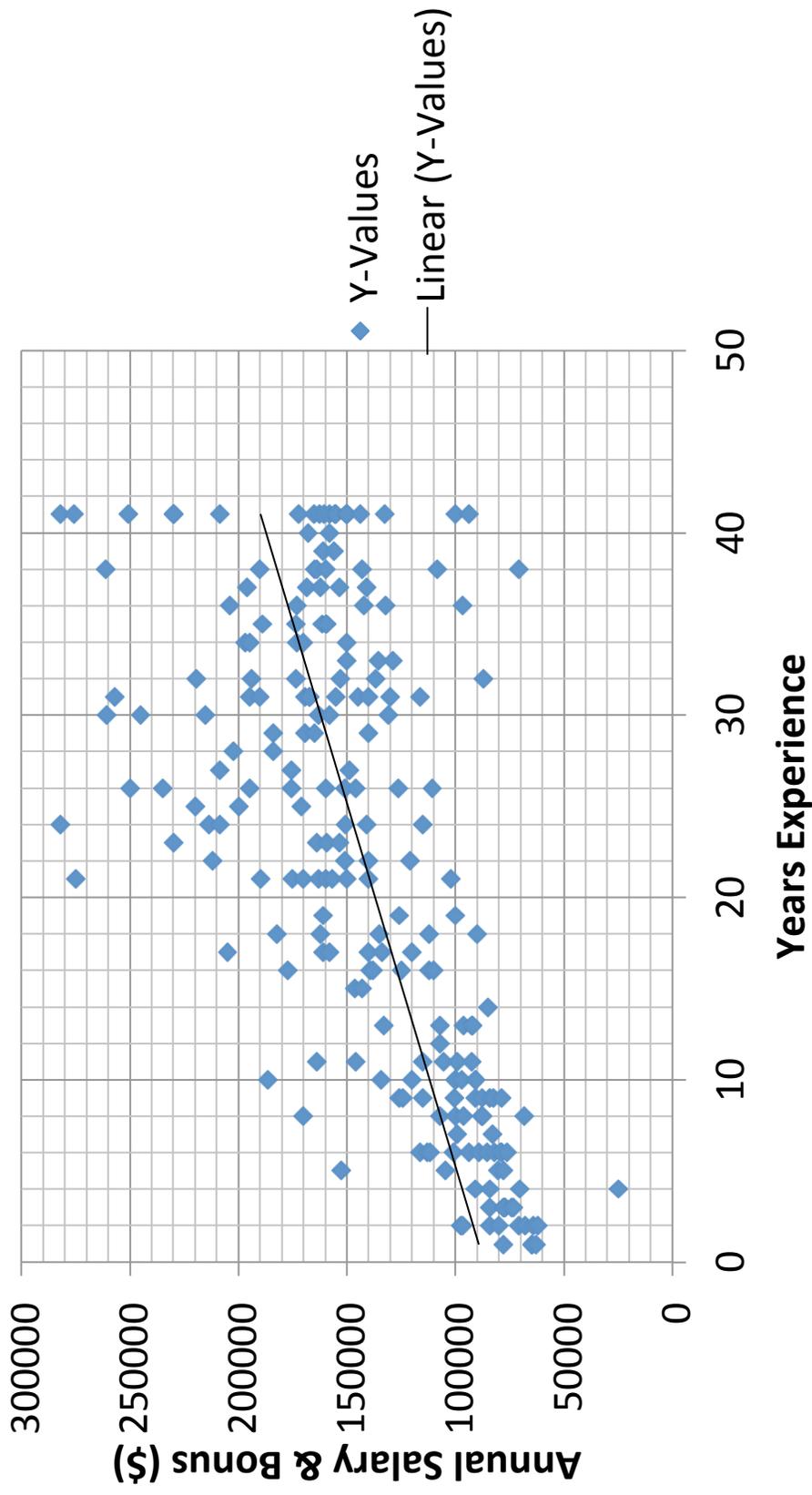
- Tracey Henson will take the lead on organizing the awards dinner.
- Tentative Date: Tuesday, November 8, 2016
- Location: TBD (Any Suggestions?)
- Volunteers needed!

**NCS Distinguished Service & Technical Excellence
Past Winners**

Year	Distinguished Service Award Winners	Technical Excellence Award Winners
2015	Cecil Parks	Forrest Brown
2014	Larry Wetzel	
2013	Bonnie Rumble	Calvin Hopper
2012	Rob Frost	Steve Clement
2011		
2010	Fitz Trumble	Luiz Leal
2009	Mikey Brady-Raap	
2008	Calvin Hopper	Richard McKnight
2007	Michael Westfall	Robert Rothe
2006	Robert E. Wilson	David P. Heinrichs
2005	Hans Toffer	Thomas P. McLaughlin, Shean P. Monahan, Norman L. Pruvost, Vladimir V. Frolov, Boris G. Ryazanov, Victor I. Sviridov
2004	Adolph Garcia	Jim Morman
2003	Mark DeHart	Jerry McKamy
2002	George Bidinger	Tom Reilly
2001	Robert Busch	Lester Petrie
2000	Francis Alcorn	Blair Briggs
2000	Valerie Putman	

2016 NCSD Compensation Survey

All Employers





AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

ANS NCSD Executive Committee – Treasurer’s Report

Hyatt Regency
New Orleans, LA
ANS 2016 Annual Meeting
Sunday, June 12, 2016

Summary:

1. The NCSD is financially sound.
 - The funds available at the end of 2015 were \$56,338.
 - The estimate funds available at the end of March were \$39,266.
 - The estimated funds on hand are \$33,266.
 - The estimated funds on hand at the end of 2016 are \$32,710.
 - The expenditures for 2016 are:
 - \$21,000 to the NCS Pioneer Scholarship
 - \$2500 to support student travel to national meetings and the student conference.
2. The NCS Pioneer Scholarship Fund is full funded.
 - The balance at the end of 2015 was \$42,331.
 - With the amount added this year, the balance reached \$63,331
 - After this years scholarship is paid, the balance will exceed \$63,000.
3. The NCSD Awards dinner cost \$4,599.53 and the income was \$5410.

EXHIBIT ONE – 1st Quarter of 2016 Financial Statement

EXHIBIT TWO - EOY 2015 Financial Statement

EXHIBIT THREE – NCSD Financial Summary

EXHIBIT FOUR - NCSD Pioneers Scholarship Summary



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

EXHIBIT ONE – 1st Quarter of 2016 Financial Statement

	Actual 3/31/2016	Budget Full Year	Variance
Revenues			
Dues Revenue Allocation*	\$428	\$1,722	(\$1,294)
Total Revenue	\$428	\$1,722	(\$1,294)
Expenditures			
Awards, Plaques		\$1,100	(\$1,100)
National Meeting Costs		\$250	(\$250)
Student Support	\$2,500	\$2,500	
Scholarship & NEED Funding	\$15,000**	\$21,000	
Other Expenses		\$500	(\$500)
Total Expenditures	\$17,500	\$25,350	(\$7,850)
Net Surplus/(Deficit)	(\$17,072)	(\$23,628)	\$6,556
Fund Balance at 1/1/16	\$56,338	\$56,338	-
Fund Balance at 3/31/16	\$39,266	\$32,710	\$6,556

* Members dues are paid proportionally through the year.

** Money was transferred to the scholarship in to disbursements. In the 1st quarter, \$15,000 and in the 2nd quarter \$6,000.



AMERICAN NUCLEAR SOCIETY

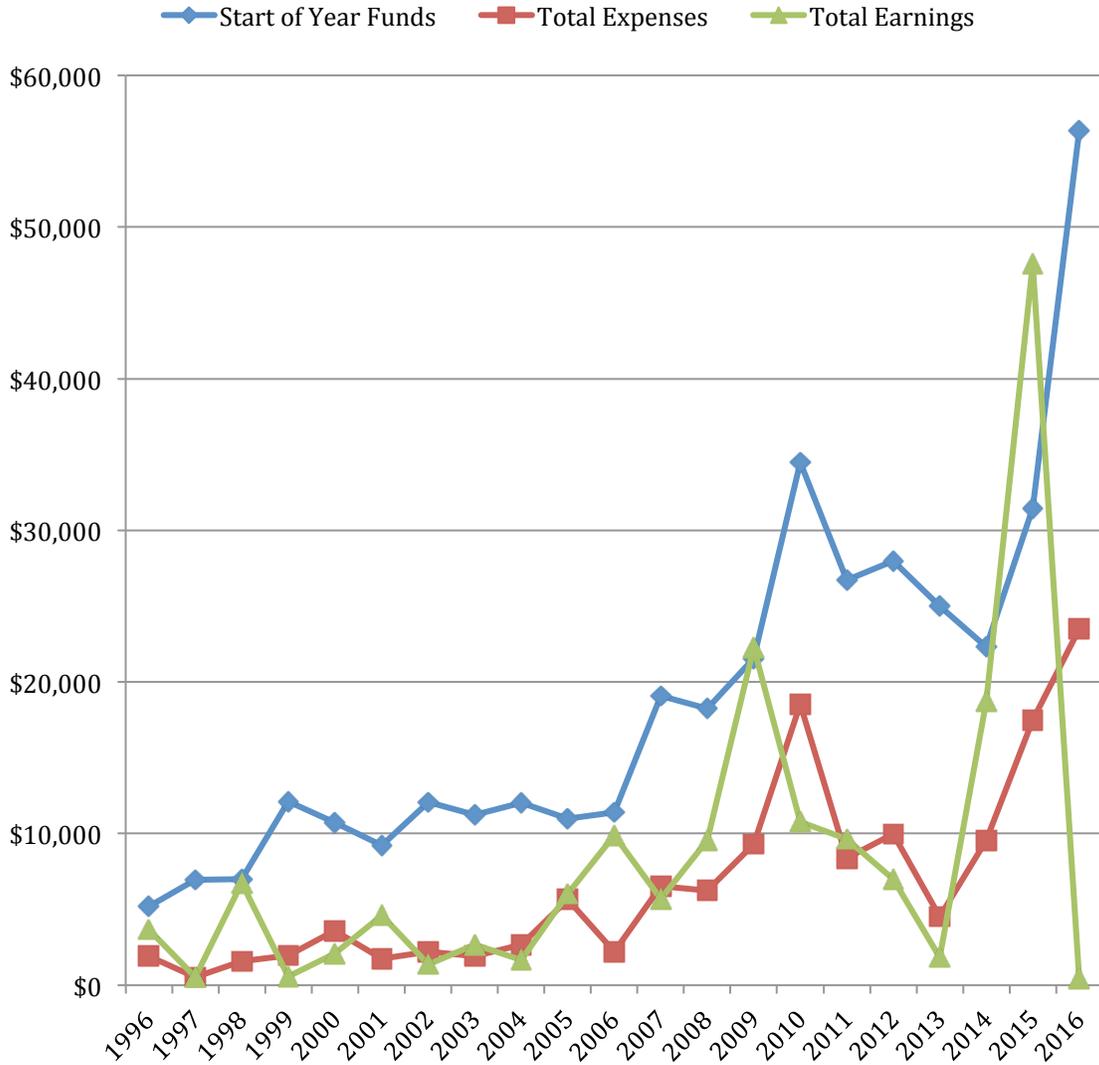
Nuclear Criticality Safety Division

EXHIBIT TWO – EOY 2015 Financial Statement

	Actual	Budget	Variance
Revenues			
Dues Revenue Allocation	\$1,606.00	\$1,722.00	(\$116.00)
Meeting Revenue	\$46,362.00	\$28,541.00	\$17,821.00
Total Revenue	\$47,968.00	\$30,263.00	\$17,705.00
Expenditures			
Awards, Plaques	\$1,006.33	\$1,100.00	(\$93.67)
National Meeting Costs	\$4,599.53	\$250.00	\$4,349.53
Student Support	\$2,500.00	\$2,500.00	
Scholarship & NEED Funding	\$15,000.00	\$18,000.00	(\$3,000.00)
Other Expenses	\$4.22	\$500.00	(\$495.78)
Total Expenditures	\$23,110.08	\$22,350.00	\$760.08
Net Surplus/(Deficit)	\$24,857.92	\$7,913.00	\$16,944.92
Fund Balance at 1/1/15	\$31,480.00	\$31,480.00	-
Fund Balance at 12/31/15	\$56,337.92	\$39,393.00	\$16,944.92



EXHIBIT THREE –NCSD Financial Summary





AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

EXHIBIT FOUR –NCSD Pioneers Scholarship Summary

Year	Starting Balance	Ending Balance	Yr End. Temp. Restricted	Yr. End Division Designated	Division Transfer	Yearly Individual Gift	Interest Temp Restricted	Interest Division Designated	Scholarship Award
2006	\$0	\$6,175	\$175	\$6,000	\$6,000	\$175	-	-	\$0
2007	\$6,175	\$6,275	\$275	\$6,000	\$0	\$100	-	-	\$0
2008	\$6,275	\$3,625	\$625	\$3,000	\$0	\$350	-	-	\$3,000
2009	\$3,625	\$3,625	\$625	\$3,000	\$0	\$0	-	-	\$0
2010	\$3,625	\$3,775	\$625	\$3,000	\$3,000	\$150	-	-	\$3,000
2011	\$7,629	\$15,404	\$11,024	\$4,380	\$0	\$10,775	-	-	\$3,000
2012	\$15,404	\$17,401	\$12,868	\$4,533	\$0	\$4,416	\$428	\$153	\$3,000
2013	\$17,401	\$16,511	\$11,978	\$4,533	\$0	\$150	\$2,110	\$0	\$3,000
2014	\$16,511	\$30,356	\$24,640	\$5,716	\$3,000	\$13,350	\$359	\$136	\$3,000
2015	\$30,356	\$42,331	\$22,161	\$20,170	\$15,000	\$75	\$(82)	\$(19)	\$3,000
2016	\$42,331				\$21,000				\$3,000