



American Nuclear Society

Nuclear Criticality Safety Division
Executive Committee Meeting
Sunday June 11, 2017
3:00pm – 4:30pm
Hyatt Regency
Bayview B
San Francisco, CA

1. Call to Order

The Executive Committee Chair, John Miller, 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	John Miller
Vice Chair/Chair Elect	Deborah Hill
Treasurer/ Finance Chair	Larry Wetzell
Secretary	Catherine Percher

Seven 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
2019	Brandon O'Donnell	yes
2019	Andrew Wysong	yes
2019	Brittany Williamson	yes
2018	Tracy Henson	yes (phone)
2018	Margaret Marshall	no
2018	Jason McCall	yes
2017	Katherin Goluoglu	yes
2017	Andrew Prichard	yes
2017	Kevin Reynolds	no

2. E-mail Votes and Communications since last meeting

- Approval (2016-12-06) of minutes from Las Vegas meeting
- Approval (2016-12-19) of:
 - Split student support money for the summer/winter/student conferences at \$500/\$1000/\$1000 respectively.

- An additional \$250 for a best student paper in the NCS field at the Student Conference
 - The By-laws & Rules special committee with Reynolds (chair), McCall (vice-chair), and Williamson assigned as the members
 - Approval (2017-05-15) of the authorization of “up to \$120 to be used at the discretion of the Membership Committee for their CY2017 printing budget”.
 - Flyers for competition, postcards advertising the NCSD
3. Chair’s Report (J. Miller: 10 min)
 - a. The chair met with the incoming president this morning. Grand Challenges was considered a huge success, 300 submissions, down to 43 for divisions to vote on, finally have 9. ANS announce them tomorrow. The June meeting should be a future-looking meeting as all the incoming chairs come in. The new ANS president talked about needed to change, as we are not being relevant for our members and we need to find better ways to make them feel valued as a member. He will be working on a thought-out plan to change. The chair then announced the new executive positions for NCSD. He encouraged the group to join the Collaborate site so we can more easily facilitate discussions.
 4. Vice Chair’s Report (D. Hill: 5 min)
 - a. Strong message from the incoming ANS President that the divisions should focus on doing two things and really doing them as opposed to trying to do too much. Deb has transitioned the NCSD Program Committee Chair to Theresa Cutler.
 5. 2017 ANS Student Conference Update (Rachel Bruenderman: 5 min)
 - a. Miriam Rathbun, chair for last conference- NCSD gave \$1250, best paper from NCState, conference was a great success, they use funding to reimburse student for travel
 - b. 2018 Student Chairs from University of Florida, April 5-7, 2018 in Gainesville, theme is “Nuclear Equality.” Technical program will include lots of workshops, like Moose Framework, Introduction to High Performance Computers, and a Materials Characterization Workshop. Tours of Kings Bay Naval Station and a sub and a tour of Kennedy Space Center are planned. The conference is soliciting technical input from NCSD, reviewing papers, and funding for the conference and best paper. A sponsorship package was provided and will be included in the minutes.
 6. Young Professional’s Conference- Young Members Group (Brett Rampal: 5 min)
 - a. The YPC is the only joint topical with NAYGN and will be an all day Saturday educational event before the upcoming winter ANS meeting. Division luncheon will have tables set up like “speed dating” to try and get additional members. There will be nine breakout sessions in the afternoon and discussions on codes, advanced reactors, and softer skills, ending with nuclear advocacy. They are targeting 250 people at the conference. Would like the NCSD to attend the luncheon and would like to get financial support.
 7. 2017 Topical Meeting in Carlsbad Update (J. Lucchini/ S. Goluoglu: 5 min)
 - a. Jeff had a flyer to distribute for the topical meeting. There will be 29 technical sessions, 73 abstracts, and 4 tutorials. Registration needs to happen by early July if you want to go on the technical tours due to vetting requirements for the sites. Questions can be directed to Jeff Lucchini at LANL. Two keynote speakers and five students will be funded by LANL. The theme is Radioactive Waste Disposal

and they are soliciting ideas for keynote speakers to address this theme. The meeting is a non-DOE technical meeting, so the attendees will not be limited. Expect excess revenue of \$28000 based on 125 attendees. NCSD will receive 25% of the total profit. John Miller suggested that Jeff post the request for keynote speaker suggestions to the collaborate site.

8. Treasurer's Report (L. Wetzel: 10 min)
 - a. At the end of 2016, we had \$35,516. We expect to close the year with just over \$29,000. We expended money for supporting scholarships and sponsoring best papers and student conferences. Over budget based on planned spending, but we don't need to involve ANS to spend more as long as we have enough money. Potential for adding additional scholarships was discussed. Perhaps we could target something at young members to get them to be able to come to the conference.
9. Committee Reports:
 - i. Program (T. Cutler: 5 min)
 - a. 3 panel sessions, three paper sessions for current meeting
 - b. winter meeting 4 panel sessions, 2-3 paper sessions
 - c. came up with good topics for the June 2018 meeting
 - ii. Education (A. Scurlock: 5 min)
 - a. Education committee has been stagnant, probably needs influence from the executive committee.
 - iii. Membership (J. Miller for M. Gorham: 5 min)
 - a. Put together flyer to advertise competition and postcards about our divisions
 - b. Working on competition problem for winter meeting, students get problem at YPC, have a few days to solve it. Can ask people in the division for help. Collect answers and determine the best answer
 - c. Wants a permanent award through H&A for recruitment that we would give out at the dinner
 - d. Wants to collaborate with YMG to get word about our division out
 - e. Bring students and other young members into the division, more mentoring needed.
 - f. Membership committee is working on their charter.
 - iv. Finance (L. Wetzel: see Treasurer's Report)
 - a. No additional report.
 - v. Newsletter/Publications/Web Site (L. Wetzel: 5 min)
 - a. Would like to make Executive committee members responsible for brochures, newsletters, website, etc. Make a "Communications Committee"- Andy Pritchard will take over and then hand it over to Tracey Henson.
 - vi. Honors & Awards (T. Henson: 10 min)
 - a. Theresa prepared best paper ballots for the Summer meeting, asking attendees to identify 1st, 2nd, and 3rd papers in each session.
 - b. Technical excellence award deadline is August 31st- start thinking about submitting candidates.
 - c. Awards banquet, will have it on Tuesday, which is October 31.
 - vii. Goals (K. Goluoglu: 5 min)
 - a. Finished charter, will post on the website

- b. Committees have been submitting their goals, but is currently a work in progress and we need more involvement
- c. Deb would like to be able to say that we have met X number of goals within NCSD.
- d. All committees shall set their goals before the next phone meeting the first week of July and should provide to Margaret Marshall.
- e. Need to select someone from the incoming Executive committee positions to sit on the Goals Committee, action for Deb Hill.
- viii. Bylaws and Rules (J. Miller for K. Reynolds)
 - a. New Bylaws and Rules posted on the website for comments. John Miller requests all committee chairs review each section to make sure that they agree to the rules.
- ix. Nominating & Scholarship (both not planned)
 - a. John Miller will take over the Nominating committee after this meeting.
 - b. Scholarship committee got a large amount of high quality applicants this year.
 - c. K. Goluoglu: Would it be worth contracting with the student division to pay students to do tasks and then sponsor them for a meeting? Hotel is much harder to get paid for hotels.
- 10. Incoming Chair Brief (D.Hill: 10 minutes)
 - a. Deb is looking to accomplish two main things- would like to help cut down on bureaucracy as much as possible (and help our members navigate through it) and look to the future and figure out how to tap into our future leaders in the NCSD community. We have communication challenges, motivation challenges. Try and get additional people involved in the NCSD from our sites.
- 11. Other Old or Ongoing Business
 - a. Vote on an Award for the Competition- \$500 Cash Award motion by M. Zerkle, seconded by A. Pritchard. Motion carried.
 - b. YMG funding proposal. \$500 for YMG motion carried.
- 12. Meeting adjourned.

Nuclear Criticality Safety Division
 Executive Committee Meeting
 Hyatt Regency San Francisco Hotel
 San Francisco, CA
 June 2017



Name	Initial when present
Only those listed below are voting members of your division	
John A. Miller, Chair	<i>JAM</i>
Deborah Ann Hill, Vice Chair	Deborah Hill
Catherine M. Percher, Secretary	Catherine Percher
Larry L. Wetzel, Treasurer	Larry Wetzel
Sedat Goluoglu, Immediate Past Chair	Sedat Goluoglu
Katherin L. Goluoglu	Katherin Goluoglu
Tracey L. Henson	on phone
Margaret Marshall	
Jason J. McCall	Jason J. McCall
Brandon M. O'Donnell	Brandon O'Donnell
Andrew W. Prichard	Andrew Prichard
Kevin H. Reynolds	
Brittany M. Williamson	Brittany M. Williamson
Andrew R. Wysong	Andrew R. Wysong
Others, please PRINT in	(if there is not enough space, feel free to use the other side)
Name	E-mail
Jason Petti	jppetti@sandia.gov
Shawn Henderson	shende@sandia.gov
Mike Zerkle	michael.zerkle@unnpp.gov
Theresa Cutler	tcutler@lanl.gov
Robert Wilson	robert.wilson@emcbc.goc.gov
Tom McLaughlin	TMC@PEROX.COM
Jim MORMAN	JAMORMAN@NL.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 San Francisco Hotel
 San Francisco, CA
 June 2017



Others, please PRINT in

Name	E-mail
Jeff Lucchini	lucchinij@pntnetworks.net
Arielle Miller	Arielle.m@dncsb.gov
Kristin Smith	kristinnsmith@ufl.edu
Katherine Galvogu	Klgolvuolu@hotmail.com
Mike Dunn	mdunn@spectratechinc.com
Matthew Wilson	matthew.wilson@lex.doe.gov
Tracy Storer	tracy.storer@srs.gov
Thomas Miller	miller tm@ornl.gov
David P. Heinrichs	heinrichs1@llnl.gov
Vladimir Sobes	sobesv@ornl.gov
Jerry Hicks	jerryhicks@aol.com
Jim Felty	jrfelty@sigmisci.com
Tony Nelson	nelson254@LLNL.gov
Jason M = Call	jason.j.mccall@cns.doe.gov

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2017 Election Results



Deborah Ann Hill
Chair

Criticality Technical Leader, Principal Criticality Safety Consultant and Laboratory Fellow for Criticality Safety, National Nuclear Laboratory, Preston, United Kingdom



Kevin H. Reynolds
Vice Chair

Chief Criticality Safety Engineer for the Uranium Processing Facility, CNS/Y-12 National Security Complex



Catherine M. Percher
Secretary

Nuclear Criticality Safety Engineer, Lawrence Livermore National Laboratory

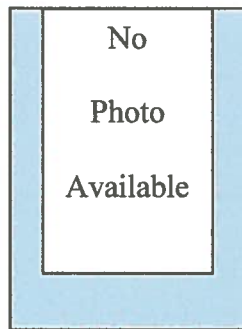


Dominic (Fred) Winstanley
Treasurer

Senior Criticality Safety Engineer, Sellafeld, Ltd. (formerly British Nuclear Fuels), United Kingdom



Julie G. Ezold
Executive Committee
R&D Senior Staff Member, Cf-252 Program Manager, Nuclear Security and Isotope and Technology Division, Oak Ridge National Laboratory



Tom Hines
Executive Committee
Nuclear Safety Oversight Lead, Portsmouth Paducah Project Office, Department of Energy



David Pilgrim
Executive Committee
Nuclear Criticality Safety Program Officer, Canadian Nuclear Laboratories, Chalk River



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

ANS NCSD Executive Committee – Treasurer’s Report

Nuclear Criticality Safety Division

Sunday 11 June 2017

3:00pm – 4:30pm

Hyatt Regency

Bayview B

San Francisco, CA

Summary:

1. The NCSD is financially sound.
 - The funds available at the end of 2016 were \$35,516.71.
 - The estimated funds on hand are \$29,766.
 - The estimated funds on hand at the end of 2017 will be \$29,200.*
 - The expenditures to date for 2017 are:
 - \$3,000 to the NCS Pioneer Scholarship
 - \$2,500 to support student travel to national meetings and the student conference.
 - \$250 for Best NCS paper at the student conference.
2. The NCS Pioneer Scholarship Fund is full funded.
 - The balance at the end of 2016 was \$63,408.
3. The NCSD Awards dinner cost \$7492.69 and the income was \$8250.00.

* No income from the 2017 Topical is included.

EXHIBIT ONE – EOY 2016 Financial Statement

EXHIBIT TWO - NCSD Financial Summary

EXHIBIT THREE – NCSD Pioneers Scholarship Summary



AMERICAN NUCLEAR SOCIETY

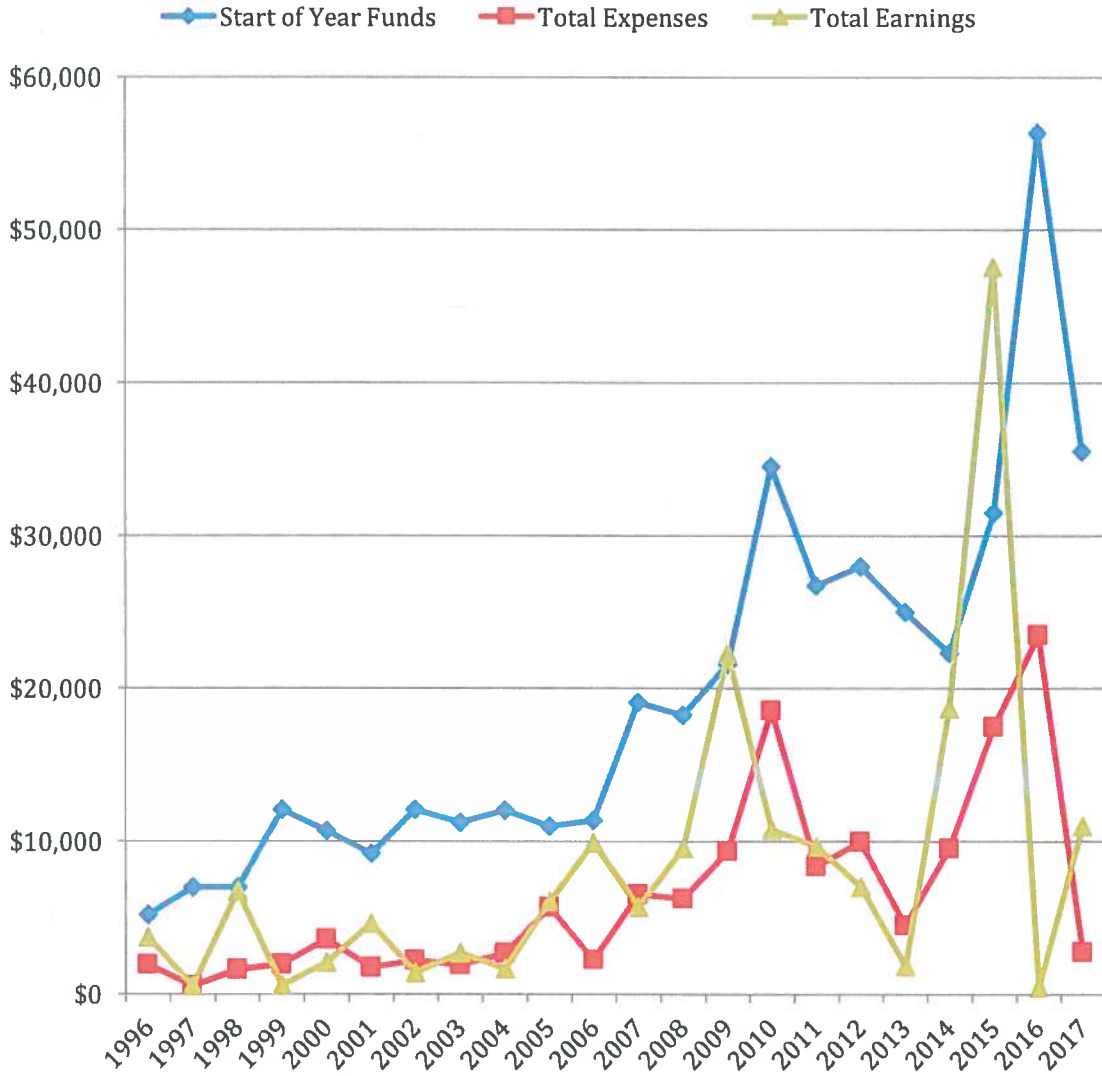
Nuclear Criticality Safety Division

EXHIBIT ONE – EOY 2016 Financial Statement

	Actual	Budget	Variance
Revenues			
Dues Revenue Allocation	\$1724.00	\$1,722.00	\$2.00
Contribution Revenue	\$8250.00		\$8,250.00
Meeting Revenue	\$1,027.00		\$1,027.00
Total Revenue	\$11,001.00	\$1,722.00	\$9,279.00
Expenditures			
Awards, Plaques	\$820.00	\$1,100.00	(\$280.00)
National Meeting Costs	\$7,492.69	\$250.00	\$7,242.69
Student Support	\$2,500.00	\$2,500.00	
Scholarship & NEED Funding	\$21,000.00	\$21,000.00	
Other Expenses	\$9.52	\$500.00	(\$490.48)
Total Expenditures	\$31,822.21	\$25,350.00	\$2,806.79
Net Surplus/(Deficit)	\$(20,821.21)	\$(23,628.00)	\$2,806.79
Fund Balance at 1/1/16	\$56,337.92	\$56,337.92	-
Fund Balance at 12/31/16	\$35,516.71	\$32,709.92	\$2,806.79



EXHIBIT TWO –NCSD Financial Summary





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Nuclear Criticality Safety Division

EXHIBIT THREE –NCS D 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	\$63,406	\$22,792	\$40,616	\$21,000				\$3,000
2017	\$63,406								\$3,000



American Nuclear Society
Nuclear Criticality Safety Division
Program Committee Meeting Minutes

2017 Summer Meeting
San Francisco – Hyatt Regency; Bayview B
Sunday 11th June
2:00 – 3:00pm
Chair: Theresa Cutler

1. Welcome, Sign in Sheet
2. Administrative Aspects
 - a. Confirmation of Current Program Committee Membership
Co-Chair: Deborah Hill
Co-Chair: Theresa Cutler
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 ; Kristen Wessels ; Catherine Percher ; Natasha Glazener ; Zachary Weems; Vladimir Sobes; Larry Berg; Forrest Shriver
 - b. Paper Reviewers
3. Summarize Details for 2017 ANS Annual Meeting (San Francisco, CA ; 11th – 15th June 2017)
 - a. Verify Chairs are here and know what to do- 6 sessions with 2 panels, same room for all sessions
4. Finalize Details for 2017 ANS Winter Meeting (Washington, DC ; 29th October- 2nd November 2017)
 - a. Sessions need chairs/co-chairs
 - i. Section 12a. “Current Spent Fuel Pool Nuclear Criticality Safety Issues for NRC Licensees” Alyse Scurlock
 - ii. Section 12b. “ANS-8 Poster Session” Doug Bowen (Co-sponsored with YMG)
 - iii. Section 12c. “Recent NCS Program Technical Accomplishments” Angela Chambers/Doug Bowen
 - iv. Section 12d. “ANS-8 Standards Forum” Doug Bowen/Larry Wetzel
 - v. Section 12f. “Past, Present, and Future Methods in International Criticality Safety Assessment” Tatiana Ivanova
 - vi. Section 12e. “Data, Analysis, and Operations in Nuclear Criticality Safety” Mike Dunn/Katherine Goluoglu, Larry Berg/Kristin Smith
 - vii. Cosponsoring a session on Critical/Subcritical Experiments
 - b. NCS is hosting a YPC Competition for November meeting, check to determine if we need a room for a discussion on Thursday. Potentially tag onto ANS 8 Standards Forum on Thursday morning.
5. Develop Sessions for 2018 ANS Annual Meeting (Philadelphia, PA; 17th-21st June 2018)
 - a. Have standard sessions Data Analysis, ANS-8 Standards Forum, and Good Practices in NCS Panel

- b. Theresa will send emails to program committee to elicit ideas for panel
 - c. Zerkle- ENDF 8 coming out, maybe good to have a session. Mike will organize a paper session. Vlad Sobes as alternate chair.
 - d. Technical Communication session from Jerry Hicks.
 - e. Columbia hold-up issue, Deb will reach out for potential inclusion on the panel.
 - f. Aim validation paper session for Winter of 2018.
 - g. Panel session on 8.10, organized by Andy Pritchard
 - h. Paper Session on CAAS Issues and Testing. Catherine Percher will organize.
 - i. Tutorial/Paper session on solution chemistry- Winter 2018
 - j. Need 100 word summaries in June 24.
6. Any Other Business
- a. Update on 2017 NCSD Topical Meeting (Carlsbad, NM ; 10th – 15th September 2017)
 - b. Attendance Sheets
 - c. Best Paper
 - d. Katherine Goluoglu: Maybe put something on the NCSD program to get session ideas. Theresa will provide info to Larry Wetzel to put it on the web.

NCS D Session Chairs and Alternate Chairs for 2017 ANS Summer Meeting

<u>NCS D Sponsor – “Data, Analysis and Operations in Nuclear Criticality Safety – I”</u>		
<i>Tuesday 1:00 P.M. ; Octavius 13</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	Kevin Reynolds (Y-12)	John Miller (SNL)
<u>NCS D Sponsor – “Data, Analysis, and Operations for Nuclear Criticality Safety – II”</u>		
<i>Wednesday 8.00 A.M. ; Octavius 10</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	Larry Wetzel (BWXT)	W.J. Marshall (ORNL)
<u>NCS D Sponsor – “Recent Nuclear Criticality Safety Program Technical Accomplishments”</u>		
<i>Wednesday 1.00 P.M. ; Octavius 10</i>		
Session Organizer(s)	Chair	Alternate Chair
Lori Scott (Leidos)	Angela Chambers (DOE)	TBC
<u>NCS D Co-Sponsor – “Critical and Subcritical Experiments”</u>		
<i>Wednesday 4.30 P.M. ; Octavius 10</i>		
NNPD Session Organizer(s)	NNPD Chair	NNPD Alternate Chair
Jesson Hutchinson (LANL)	William Myers (LANL)	N/A
<u>NCS D Co-Sponsor – “Criticality Experiments Workshop [NCERC Visit]”</u>		
<i>Thursday 7.30 A.M.</i>		
<u>NCS D Sponsor – “ANS-8 Standards Forum”</u>		
<i>Thursday 8.00 A.M. ; Octavius 10</i>		
Session Organizer(s)	Chair	Alternate Chair
Brian Kidd (Paschal Solutions)	Brian Kidd (Paschal Solutions)	Doug Bowen (ORNL)
<u>NCS D Sponsor – “The Impact of Chemistry in Nuclear Criticality Safety Evaluations (Tutorial)”</u>		
<i>Thursday 10.05 A.M. ; Octavius 10</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	Deborah Hill (NNL)	Theresa Cutler (LANL)
<u>NCS D Sponsor – “Data, Analysis, and Operations for Nuclear Criticality Safety – III”</u>		
<i>Thursday 1.00 P.M. ; Octavius 10</i>		
Session Organizer(s)	Chair	Alternate Chair
Deborah Hill (NNL)	Catherine Percher (LLNL)	Deborah Hill (NNL)

NCSD Session Chairs and Co-Chairs for 2017 ANS Annual Meeting San Francisco

The 2017 ANS Annual Meeting will be held from 11th – 15th June 2017, and the Call for Papers for the meeting is available on the ANS Website. The associated deadlines are:

- Submission of Summaries – 11th January 2017 *{Normally extended by approx. 3-4 weeks}*
- Author Notification of Acceptance – 24th February 2017
- Revised Summaries Due – 13th March 2017

Section 12a. Session Title: “Criticality Accident Alarm Systems”

Session Type: Contributed Papers

Session Organiser: Doug Bowen, ORNL (bowendg@ornl.gov)

Session Chair:

Alternate Chair:

Summary: Many nuclear facilities in the United States and abroad utilize Criticality Accident Alarm Systems (CAAS) as a means of alerting personnel and initiating their prompt evacuation to limit their exposure to radiation in the event of a criticality accident. Many sites have struggled with implementing the requirements and recommendations from the ANS-8.3 standard, applicable to CAAS, or have had operability issues with their systems. The purpose of this session is to allow nuclear facilities that utilize a CAAS to share their regulatory/standards compliance and operations experience with the Nuclear Criticality Safety community.

Section 12b. Session Title: “Sharing of Good Industry Practices and / or Lessons Learned in Nuclear Criticality Safety”

Session Type: Panel

Session Organiser: Deborah Hill (+44 1772 764359 ; deborah.a.hill@nnl.co.uk)

Summary: Fundamental to the successful operation of any nuclear site is a first class safety culture which strives to continually improve in response to good industry practices and operating experience feedback. Speakers will provide examples of either lessons learnt and / or specific good practices at their site, following which an audience discussion will be initiated on alternative good practices and experiences in these areas.

12c. Session Title: “ANS Summer 2017 Meeting - NCSD Pioneer Discussion”

Session Type: Panel

Session Organiser: Catherine Percher & David Heinrichs

Summary: Retirees from Lawrence Livermore National Laboratory will provide a historical perspective on criticality safety practices, critical experimentation, and LLNL’s 1963 criticality accident.

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.

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

Session Type: Contributed Papers

Session Organiser: Deborah Hill & Theresa Cutler

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 Ideas for 2017 ANS Winter Meeting Washington DC

ROUTINE WINTER SESSIONS

1. Data, Analysis and Operations in Nuclear Criticality Safety
2. ANS 8 Standards Forum
3. Recent Nuclear Criticality Safety Program Technical Accomplishments

SUGGESTIONS FROM NCSD PROGRAM / EDUCATION COMMITTEE

4. Validation Methods (Panel) [JB / NG] *{Potential Session Organisers – Ian Hill & Tatiana Ivanova ; Possible Co-Sponsors – YMG and RPD ?}*
5. ANS-8 Poster Session [DB] *{Session Organiser – Doug Bowen}*
6. Neutron Absorbers in Spent Fuel Pools (Panel ?) [AS] *{Session Organiser – Alyse Scurlock}*
7. Advanced Session on Impact of Chemistry on Nuclear Criticality Safety Evaluations ? [DAH]
8. “Technical Communication” Session ? *{Potential Co-Sponsor – YMG ?}*
9. OECD NEA Session about their Programs ? [JB]
10. “Day in the Life of” [ZW] *{Potential Co-Sponsor – YMG ?}*

OTHER SUGGESTIONS FROM PREVIOUS MEETINGS

11. Legacy Style Talks / Learning from Pioneers – Knowledge Transfer – Passing onto to next generation of NCS Engineers *[Previous / PA]*
12. Medical Isotope Production *[PA]*
13. Uncertainty *[JH]*
14. Nuclear Accidents *[AP]*
15. Criticality Safety Programs on International Stage *[KG]*
16. Integrating Safety, Security and Safeguards *[KG]*
17. Burn-Up Credit in Current Operations *[KG]*
18. Real World Application of Sensitivity / Uncertainty *[KG]*
19. Latest Needs from a Users Forum *[KG]*
20. Implementing Active Controls in Digital World *[KG]*
21. Joint Sessions with Human Factors / Young Members Group *[DAH]*



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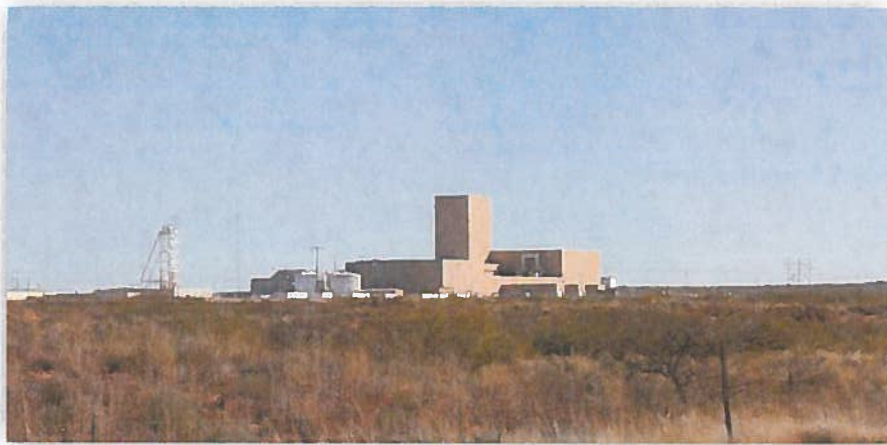
1. Call to Order
 - a. J. Miller conducting meeting for A. Scurlock. Introductions around the table.
2. Discussion about the Purpose of the Committee
 - D. Hill- What were the origins of the Education Committee, and maybe we no longer have a need for the committee or for white papers.
 - J. McCall- Hard to get participation for the committee, many people felt “why are we doing this?” There was a survey that was completed. Need the feedback from the community to figure out what people need.
 - J. Miller- Read overview of education committee white paper.
 - B. Wilson- Education committee often hosted workshops at least originally. In 2006 added the task of white papers that would address upcoming issues in criticality safety.
 - J. Mormon- Valerie [Putman] did a lot of workshops
 - J. Hicks- will need a workshop on CAAS when the new standard comes out. One reason we went away from workshops was the expense.
 - D. Hill- Need to reinvigorate the committee- add some pressure from the executive committee.
 - T. Cutler- want to have something at ANS to attract people to the meetings
 - J. Miller- need to work closely with the program committee
 - J. McCall- Only so much you can do from pushing from the top, need the membership to help.
 - C. Percher- need to come up with a goal for the project committee, perhaps a workshop within one year
 - B. Williamson- Having issues with new hires that they don't want to just read a paper- maybe making a video instead that could be uploaded to YouTube.
 - Shawn- Maybe a live lecture, WebX that can be interactive
 - J. McCall- Overview of NCS at each site
 - J. Miller- points of contacts at different sites to get sharing of ideas
 - F. Brown- lots of workshops at the Topical, good opportunity to get lots of new people at once.
 - J. Hicks- Education committee should feed the program committee

Nuclear Criticality Safety Division
 Education Committee Meeting
 Hyatt Regency San Francisco Hotel
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 June 2017

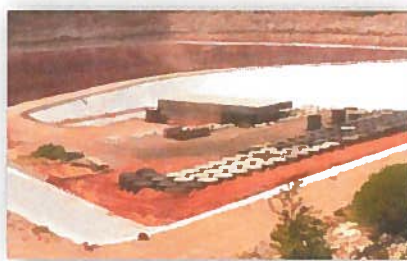


Name	E-mail
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Theresa Cutler	tcutler@lanl.gov
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Article B10.2 - A quorum for the transaction of business at all Division (or TG) meetings shall consist of fifteen (15) qualified voters or twenty (20) percent of the qualified voters.



Criticality Safety – pushing boundaries by modernizing and integrating data, methods, and regulations



2017 NUCLEAR CRITICALITY SAFETY DIVISION TOPICAL MEETING

SEPTEMBER 10-15, CARLSBAD, NM

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29 TECHNICAL SESSIONS

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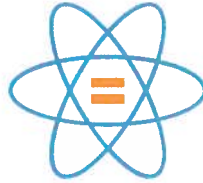
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[HTTP://CONFERENCE.CARLSBADANS.COM](http://conference.carlsbadans.com)

ORGANIZED BY:

ANS Carlsbad Section, and
ANS Nuclear Criticality Safety
Division

April 5-7, 2018



The University of Florida



American Nuclear Society Student Conference 2018



Overview

The theme of the 2018 ANS Student Conference is Nuclear Equality: In Policy, Energy Access, & the Engineering Community. Our program seeks to highlight issues such as improving the political and economical environment for nuclear energy, nuclear energy's role in providing clean and reliable energy access to those who need it most, as well as providing today's student with the insight to be tomorrow's successful engineer in an increasingly diverse nuclear community.

Highlights

- Conference held in the newly renovated J. Wayne Reitz Union



- 500+ Students and professionals

- Unique materials characterization and high performance computing and simulation workshops utilizing the HiperGator.

- Several tours including Kings Bay Submarine base and the Kennedy Space Center.

Contact

Email:
chair@ansstudentconference2018.com

Phone:
386-785-3726

Mail:
2018 ANS Student Conference Co-Chairs
3A Nuclear Field Building
Gainesville, FL 32611

Website:
www.ansstudentconference2018.com





American Nuclear Society Student Conference 2018

Sponsorship & Exhibitor Packet



April 5-7, 2018 · University of Florida · Gainesville, Florida



Message from the Co-Chairs

Greetings Potential Sponsors & Exhibitors!

Firstly, we'd like to thank you for taking the time to view our Sponsorship & Exhibitor Packet for the 2018 American Nuclear Society Student Conference! We are looking forward to welcoming the nuclear science and technology community to the Sunshine State in Spring of 2018. The conference will take place on the University of Florida's Gainesville campus from April 5-7, 2018, with the bulk of conference activities taking place at the newly renovated Reitz Union. With a planned attendance of over 500 students and professionals, our program, along with our state of the art facilities gives the 2018 ANS Student Conference the potential to be a great educational and professional development experience for our attendees with your generous support.

The theme of the 2018 ANS Student Conference is Nuclear Equality: In Policy, Energy Access, & the Engineering Community. Our program seeks to highlight issues such as improving the political and economical environment for nuclear energy, nuclear energy's role in providing clean and reliable energy access to those who need it most, as well as providing today's student with the insight to be tomorrow's successful engineer in an increasingly diverse nuclear community. It is our mission to tackle some of the most pressing issues in our field. Your participation as a sponsor or exhibitor will not only help us highlight these issues, but also provide your company or organization with a unique opportunity to engage with hundreds of highly skilled students.

We invite you to review or sponsor and exhibitor options listed in this packet to see if there is an option that suites your company's or organization's needs. We look forward to working with our sponsors and exhibitors and addressing their individual requests and requirements.

Sincerely,

Patrick Moo
General Program Chair

Zander Mausolf
Technical Program Chair

Rae Bruendermann
Conference Logisitcs Chair

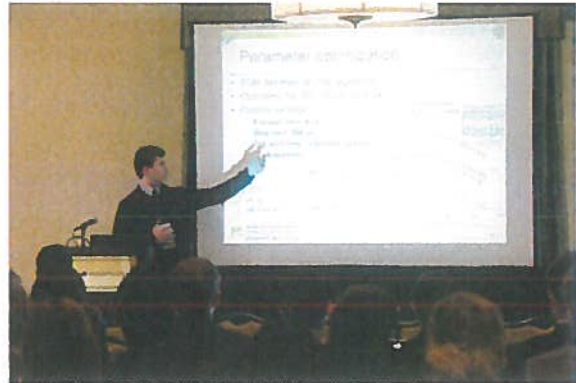


Benefits of Sponsorship

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 2018 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.

Over the years, the ANS Student Conference has 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 four sponsorship options with varying levels of visibility benefits. Going along with our theme of "Nuclear Equality", these options are given on the next page as "Champion", "Leader", "Advocate", and "Ally". 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 5.



ANS Student Conference technical session.



Keynote address at the 2017 ANS Student Conference.



Exhibitor talking to students at the Career Fair.



Sponsorship Options

CHAMPION

\$20,000

CAREER FAIR TABLE (UP TO 2 TABLES) WITH CHOICE OF LOCATION

4 WAIVED REGISTRATIONS (FULL)

1 FULL PAGE AD IN CONFERENCE PROGRAM

PROVIDE LOGO FOR CONFERENCE SHIRT

PROVIDE LOGO ON ATTENDEE BAG ITEM

2 TECHNICAL SESSION SPONSORSHIPS

DINNER SPONSORSHIP WITH OPPORTUNITY TO ADDRESS AT DINNER

INNOVATION CONTEST SPONSORSHIP OR POSTER SESSION SPONSORSHIP

LEADER

\$15,000

CAREER FAIR TABLE (UP TO 2 TABLES) WITH CHOICE OF LOCATION

3 WAIVED REGISTRATIONS (FULL)

1/2 PAGE AD IN CONFERENCE PROGRAM

PROVIDE LOGO ON ATTENDEE BAG ITEM

2 TECHNICAL SESSION SPONSORSHIPS

DINNER SPONSORSHIP WITH OPPORTUNITY TO ADDRESS AT DINNER

INNOVATION CONTEST SPONSORSHIP OR POSTER SESSION SPONSORSHIP

ADVOCATE

\$10,000

CAREER FAIR TABLE (UP TO 2 TABLES)

2 WAIVED REGISTRATIONS (FULL)

1/4 PAGE AD IN CONFERENCE PROGRAM

PROVIDE LOGO ON ATTENDEE BAG ITEM (PROVIDED BY SPONSOR)

2 TECHNICAL SESSION SPONSORSHIPS

SPONSOR LUNCH AND LEARN OR SOCIAL

ALLY

\$5,000

CAREER FAIR TABLE (1 TABLE)

2 WAIVED REGISTRATIONS (CAREER FAIR ONLY)

1/4 PAGE AD IN CONFERENCE PROGRAM

1 WORKSHOP OR PANEL SPONSORSHIP (OF AN EXISTING PANEL/WORKSHOP)

1 TECHNICAL SESSION SPONSORSHIP

**Career fair tables are 6 ft in length. Tables may be replaced with space for displays or demonstrations. Chairs and tables with linens will be provided.*



Exhibitor Options

In addition to our sponsorship packages, we are also offering four exhibitor options. For those interested in additional exposure, we've provided the option for additional conference registrations and space for an additional career fair table. The two table option is well suited for companies or organizations who are interested in setting up a display or demonstration by replacing one or both tables with extra space. The career fair will be held all day Friday and Saturday morning for a total twelve hours. For exhibitor options I & II, exhibitors may choose their table location in the exhibit hall. For exhibitors and recruiters looking to make an extra impression on the attendees, our Exhibitor I package has the option to give a Lunch & Learn recruiting talk. Lunch & Learns will last one and a half hours, allowing the recruiter or representative to give a presentation during this time.

EXHIBITOR I

\$10,000

CAREER FAIR TABLE (2 TABLES)
WITH CHOICE OF LOCATION

2 WAIVED REGISTRATIONS
(FULL)

LUNCH & LEARN WITH KEYNOTE
RECRUITING TALK

EXHIBITOR II

\$7,500

CAREER FAIR TABLE (1 TABLE)
WITH CHOICE OF LOCATION

2 WAIVED REGISTRATIONS
(FULL)

EXHIBITOR III

\$5,000

CAREER FAIR TABLE (1 TABLE)

2 WAIVED REGISTRATIONS
(CAREER FAIR ONLY)

EXHIBITOR IV

\$2,500

CAREER FAIR TABLE (1 TABLE)

1 WAIVED REGISTRATION
(CAREER FAIR ONLY)

Other Contributions

If your company or organization would like to contribute any amount under \$2,500, we encourage you to choose our "Friends of Nuclear" option. Any contribution will go a long way in ensuring a successful conference and positive professional experience for hundreds of future nuclear scientists and engineers.

FRIENDS OF NUCLEAR

<\$2,500

RECOGNIZED IN PROGRAM



Becoming a Sponsor or Exhibitor

If your company or organization is interested in sponsoring the 2018 American Nuclear Society Student Conference or becoming an exhibitor, or if you have any questions regarding the listed options, please contact us at any one of the following:

Email

pat@ansstudentconference2018.com

Phone

(386)-785-3726

Mail

2018 ANS Student Conference Co-Chairs
3A Nuclear Field Building
Gainesville, FL 32611

Website

www.ansstudentconference2018.com

Note on Limited Sponsorship & Exhibitor Benefits

Some benefits listed in the sponsorship and exhibitor packages are limited; therefore, an addendum to this packet will be added to list benefits which are no longer available, as needed. If an event is shown as unavailable in the addendum, then we will work with any potential sponsors and exhibitors to find comparable benefits should the need arise. We encourage our sponsors and exhibitors to select a desired package at their earliest convenience in order to guarantee the listed benefits. Also note that options which include choice of career fair table location will be handled on a first come, first serve basis.

The Sponsorship Packet along with a career fair table layout showing remaining vacant spaces will be updated regularly to reflect any changes and made available on our website at www.ansstudentconference2018.com. Choice of technical session, panel, and workshops will be provided once the conference program is finalized.