

Nuclear Criticality Safety Division

Nuclear Criticality Safety Division
Executive Committee Meeting Minutes
Sunday 6 November 2016
3:00pm - 4:30pm
Caesars Palace
Milano 1
Las Vegas, NV

1. Call to Order

The Executive Committee Chair, John Miller, convened the meeting. A quorum of the Division Officers was present. The serving Division Officers were as follows:

Position	Name
Chair	John Miller
Vice Chair/Chair Elect	Deborah Hill
Treasurer/ Finance Chair	Larry Wetzel
Secretary	Catherine Percher

Five 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	Brittany Williamson	no
2019	Andrew Wysong	no
2018	Tracey Henson	yes
2018	Margret Marshall	yes
2018	Jason McCall	yes
2017	Katherin Goluoglu	no
2017	Andrew Prichard	yes
2017	Kevin Reynolds	yes

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

2. E-mail Votes and Communications

The chair provided an overview of the email votes and communications since the last meeting, held at the 2016 ANS Summer conference in New Orleans (see below).

- Approval (2016-08-02) of minutes from New Orleans meeting
- Approval (2016-08-02) of clean and appropriately dated By-laws & Rules

- Approval (2016-08-30) of the 2017 NCSD Budget
- Draft proposal (2016-09-19) to amend By-Laws to expand Executive Committee by end of October. No vote held (discussions and timeline issues).

3. Chair's Report (J. Miller)

The chair reported on a meeting held with the ANS President. The finances of ANS are still not great. ANS is not making a profit and sees the need to increase membership. There is a lot of optimism about nuclear in US, and ANS is trying to focus on providing more services to members, like Collaborate and useful technical programs. ANS is going through changes and encountering some resistance. The chair thanked NCSD subcommittee chairs for using Collaborate and making committee pages and workspaces.

The chair discussed the ANS Grand Challenges, reminding the committee that we had stood up a goals committee at the June meeting but haven't heard anything from committee about the Grand Challenges. Perhaps this would be something on which we could collaborate with other divisions?

The chair and committees have spent some time to remove non-ANS members. The chair will confirm correct membership on each committee and promulgate the results through email soon.

There was a question about whether executive committee members can send a proxy. S. Goluoglu said that ANS has a provision in their bylaws to allow a proxy through another executive committee member. The chair will investigate and determine if we need to put in a rule in our bylaws.

There was a brief discussion on being more effective as a division, with the question on whether we are having official votes on too many of the division's activities. For example, do we need to vote to accept the recently completed salary survey, or can we just post it to the ANS Collaborate site?

4. Vice Chair's Report (D. Hill)

The vice chair reiterated that ANS wants to enhance its products and services- our division needs to challenge itself to get quality for the members.

5. 2017 ANS Student Conference Update (Brendan Stack/ Miriam Rathbun)

The student conference will be held April 6-9 at the University of Pittsburgh and early registration is open. The website is ANSstudentconference.com. The theme for the conference is Dispelling Nuclear Myths. Summaries are due February 1, 2017, and the conference is looking for reviewers and judges for posters and the innovation competition. There is currently no commitment of support from the NCSD division. The organizers will follow up with division in the coming weeks. The handouts provided by the students are attached to the meeting minutes.

6. Young Professional's Congress- Young Members Group (A. Scurlock)

The Young Professional's Congress meets every other year at the Washington, DC winter conference. The conference starts the Saturday before the meeting and includes a day of professional development for young people. The Young Members Group and North American Young Generation in Nuclear cosponsor the event and Capitol Hill visits focusing on policy. The conference would like support from NCSD

by sponsorship of a division luncheon, breakfasts, social events, etc. There could also be a way to provide input to the program as well. The Chair requested more information regarding sponsorship amounts and deadlines to be able to help the committee determine their level of support.

7. 2017 Topical Meeting in Carlsbad Update (J. Lucchini/ S. Goluoglu)

The General Chair for the topical (J. Lucchini) spoke and said the call for papers has been released and encouraged members of the NCSD to participate. The organizing committees have been established and are working to get ready for conference. The National Program Committee (NPC) have accepted the communication plan, with final approval of the conference at the next meeting. The NPC has requested more accuracy in the budget. The technical program will include a tour of the Waste Isolation Pilot Plant, hopefully underground. The conference is looking for a counterpart from NCSD to work on obtaining sponsors for the conference. John Miller took an action to put the General Chair in contact with potential sponsor counterparts.

8. Salary Survey Report (Diane Cianflone)

The NCSD salary survey has been completed. Paper copies were distributed at the meeting. The survey organizer, Diane Cianflone, said that we received 240 responses, but she wished we had gotten a larger response so we could do regional analytics. People with less experience had a lower response. She suggested that if we want to do it again, we should keep the same questions as much as possible to be able to track information over time. She recommended redoing the survey in the 1st quarter of 2018. Our data was compared to engineers as a whole and we surpassed average income at every experience level. John Miller made a motion to post on the website, it was seconded and passed.

9. Treasurer's Report (L. Wetzel)

The NCSD is financially sound, with a balance at the end of Sept approximately \$31,000. There is a \$600 charge from last meeting is being disputed for power and technology costs. The chair will put out a vote to the committee for student support breakdown. The treasurer's report is attached to these meeting minutes.

10. Committee Reports:

- i. Program (D. Hill)
 - a. Very healthy position with number of sessions, 8 session this meeting, next summer 6 sessions, next winter 5-6 sessions
 - b. Pacific basin conference looking for support. D. Hill will talk to conference chair and file back to the chair for a vote.
- ii. Education (A. Scurlock)
 - a. Trying to lock down membership list
 - b. Went over status of current white papers, reassigned responsibilities
 - c. Discussion of what purpose of education committee is, maybe make more useful program for young members, will take offline
 - d. Want to update website and make more organized and user-friendly, need volunteers
- iii. Membership (M. Gorham)

- a. The committee is planning to recognize those that bring in new members. Current membership is lower than usual with 712 in our division. Diane Cianflone mentioned that ANS membership (and thus division membership) fluctuates during the year based on the dues payment cycle, which might explain the lower numbers. The membership chair wants to grow the membership committee and get information of NCSD out to others, highlighting why someone should be in NCSD, perhaps a through a brochure.
- b. A meeting is planned for Monday during coffee service, focusing on students and potentially using student prize for student conference as way to get students to join.
- c. Diane Cianflone discussed that the ANS membership is going up in general, and that membership is cyclical depending on when the number of members is measured. She offered to help provide data about who attends meetings and members of the division.

iv. Finance (L. Wetzel)

- a. Need to get membership rolls correct
- b. Required to have five members on finance committee, only have four currently. Bob Busch volunteered to serve as a committee member.
- v. Newsletter/Publications/Web Site (L. Wetzel)
 - a. L.Wetzel can update membership on website, send him your changes.
 - b. The division has lost our student who was helping with the website and publications. L. Wetzel put forth the idea to have a publications committee made of a third year, second year, and first year executive committee members who will be responsible for publications. He will type up a charter and put out for vote.
- vi. Honors & Awards (T. Henson)
 - a. Awards banquet is Monday night, happy hour at 6, dinner at 7.
 - b. Excellent amount of sponsorship
 - c. 75 people signed up
 - d. Best paper awards, one winner for each session, will give 5 awards
 - e. Distinguished service and technical excellence awards will also be given
 - f. H&A recently developed and approved a new charter. John Miller wants each committee to use this charter as a template for their charters. The H&A charter is attached to these minutes.

vii. Goals (K. Goluoglu)

- a. Grand challenges need to be first priority. Goals committee charter has been started, needs to be completed.
- viii. Nominating (S. Goluoglu) & Scholarship
 - a. No report on nominating
 - b. Scholarship- we had three applicants last year, two from University of Florida, still have same challenge of getting students to apply. Scholarship applicants are due February first.

Everyone associated with NCSD needs to assist in getting more people to apply.

11. Other Old or Ongoing Business

a. Mike Westfall asked if more thought had gone into making the division awards national ANS awards. National awards require an endowment (used to be \$20,000, perhaps now \$60,000). A counterpoint was raised that these awards usually go to long-standing members of our division and thus are unlikely to help with our membership drives, which is the reason we endowed the scholarships.

12. New Business

- a. The chair wants to set up committee for bylaws and publications. L. Wetzel will draft a charter for the publications committee and send to executive committee for review.
- b. The chair brought up the concept of a chartership, which is based on a UK tradition and is given for contributing to the field and being active in the society. It could be a way to provide additional value for our members. D. Hill said she can send links to various institutes to explain charterships.
- c. A motion for executive committee to have monthly telecons was made by Margaret Marshall and seconded and passed.
- 13. Meeting adjorned.

List of Attachments

- 1. NCSD Executive Committee Meeting Agenda (1 page)
- 2. NCSD Executive Committee Sign-in Sheet (3 pages)
- 3. 2017 ANS Student Conference Flyers (2 pages)
- 4. NCSD Treasurer's Report (4 pages)
- 5. NCSD Program Committee Meeting Minutes (6 pages)
- 6. NCSD Program Committee Meeting Agenda (1 page)
- 7. NCSD Program Committee Sign-in Sheet (3 pages)
- 8. NCSD Education Committee Meeting Minutes (3 pages)
- 9. NCSD Education Committee Meeting Agenda (1 page)
- 10. Overview of the ANS/NCSD Education Committee (1 page)
- 11. NCSD Education Committee Sign-in Sheet (2 pages)
- 12. New Honors and Awards Subcommittee Charter (9 pages)



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- Call to Order
- 2. E-mail Votes and Communications since last meeting
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 - Draft proposal (2016-09-19) to amend By-Laws to expand Executive Committee by end of October. No vote held (discussions and timeline issues).
- 3. Chair's Report (J. Miller: 10 min)
- 4. Vice Chair's Report (D. Hill: 5 min)
- 5. 2017 ANS Student Conference Update (Brendan Stack/ Miriam Rathbun: 5 min)
- 6. Young Professional's Conference- Young Members Group (A. Scurlock: 5 min)
- 7. 2017 Topical Meeting in Carlsbad Update (J. Lucchini/ S. Goluoglu: 5 min)
- 8. Salary Survey Report (Diane Cianflone; 10 min)
- 9. Treasurer's Report (L. Wetzel: 10 min)
- 10. Committee Reports:
 - i. Program (D. Hill: 5 min)
 - ii. Education (A. Scurlock: 5 min)
 - iii. Membership (M. Gorham: 5 min)
 - iv. Finance (L. Wetzel: see Treasurer's Report)
 - v. Newsletter/Publications/Web Site (L. Wetzel: 5 min)
 - vi. Honors & Awards (T. Henson: 10 min)
 - vii. Goals (K. Goluoglu: 5 min)
 - viii. Nominating (S. Goluoglu) & Scholarship (both not planned)
- 11. Other Old or Ongoing Business
- 12. New Business

Nuclear Criticality Safety Division Executive Committee Meeting Caesars Palace Hotel Las Vegas, NV November 2016



Name	Initial when present
Only those listed below are voting members of your division	
John A. Miller, Chair	gm
Deborah Ann Hill, Vice Chair	Deborah bull
Catherine M. Percher, Secretary	Cette De la
Larry Wetzel, Treasurer	2111
Sedat Goluoglu, Immediate Past Chair	J = 00 ps
Katherin L. Goluoglu	
Tracey Henson	Tracen Hub
Margaret Marshall	I limit club M
James McCall Jason	S.S. Malech
Brandon M. O'Donnell	mer
Andrew W. Prichard	
Kevin H. Reynolds	Kny H. Oha Ja
Brittany M. Williamson	
Andrew R. Wysong	
Others, please PRINT in	(if there is not enough space, feel free to use the other side)
Name	E-mail
Alexander (Zander) Mausolff	Zander m@ufl.edu
Zachary Weens	Zweem3@alumni.nd.edu
FRED WINSTANLET	adw & @ Fellated sites. com
Kriston (Dosse's	Kristan, wessels @ Chs. doe, gov
Jim Baker	james, baker @ srg. gov
Ning Zhan	Ning. Zhang @ (cal. 50)
Alicial Saluzar Crockett	aliciasa@lanl-gov

Nuclear Criticality Safety Division Executive Committee Meeting Caesars Palace Hotel Las Vegas, NV November 2016



Others, please PRINT in

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Larry Berg	Larry. Berg ENNSIA. 202.80V
	TPMEPOBOX. COM
Jan M' laughlin	1: /
Alyse Scurlock	Alyre Sourlock a dube-energy or
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Nuclear Criticality Safety Division Executive Committee Meeting Caesars Palace Hotel Las Vegas, NV November 2016



Others, please PRINT in

Name	E-mail
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Larry Wetzel	margaret, marshall link gur Nwetzel @ bax t. com
BOB Busen	busch@ unm.edu
Larry Wetzel Bob Busch Jean Transpir (If) Lucchini	lucchini @ land gov



ANS Student Conference

April 6-9, 2017 | University of Pittsburgh

Call For Summaries

Topics in Nuclear Science and Technology

Officials:

Conference Co-Chair Miriam Rathbun Conference Co-Chair Brendan Stack Technical Program Chair Christopher D'Angelo

Format

All summaries must be 1-4 pages and be written in the ANS format found here: ans.org/pubs/transactions.

Submitting Your Summary

Summaries may either be submitted for poster or podium presentations. Both submissions will follow the same timeline. Submitting a summary for one of these presentations does **not** also include you into the innovation competition. Summaries must be submitted electronically and instructions can be found on the conference website.

Technical Tracks

- Accelerator Applications
- Advanced Reactors
- Aerospace
- Biology & Medicine
- Decommissioning & Environmental Sciences
- Detection and Measurement
- Fuel Cycle & Waste Management*
- Fusion Energy and Plasmas
- Human Factors , Instrumentations and Control*
- Isotopes & Radiation

- Materials Science & Technology
- Mathematics & Computation
- Nuclear Criticality Safety
- Nuclear Installations Safety*
- Nuclear Nonproliferation
- Operations & Power
- Radiation Protection & Shielding
- Reactor Physics
- Robotics & Remote Systems
- · Thermal Hydraulics
- * Division Sponsored Cash Award



Submission of Summaries Nov. 1 – Feb. 1

Author Notification of Decisions Feb. 1 – Feb. 15

Revised Summaries Due Feb. 24

Conference April 6 - 9

Contact Us

If you have any questions please send them to technical.ansstudent2017@gmail.com or search

for answers on our website: ansstudentconference2017.com.



ANS Student Conference

April 6-9, 2017 | University of Pittsburgh

Call For Innovation

Businesses spawned by Nuclear Innovation

Officials:

Conference Co-Chair Miriam Rathbun Conference Co-Chair Brendan Stack Technical Program Chair Christopher D'Angelo

Description

Students may submit an idea for a business that displays innovation and entrepreneurial skills in the field of nuclear science. All innovators will prepare and give a 5-minute pitch focused on their business plan to a panel of judges and will then answer questions regarding the presentation as well as the technical aspects of the idea. The judges will select one winner who will be awarded a cash prize of \$500 that may be used to develop their business further.

Format

All summaries must be 1-2 pages in length and must include the following: your business plan, the market opportunity, and a technical description.

Submitting Your Summary

Summaries must be submitted online. Specifications for the summary file can also be found on the conference website. Submission of Summaries
Nov. 1 – Feb. 1

Author Notification of
Decisions
Feb. 1 – Feb. 15

Revised Summaries Due
Feb. 24

Conference
April 6 - 9



Contact Us

If you have any questions please send them to technical.ansstudent2017@gmail.com or search for answers on our website:
ansstudentconference2017.com.

ANS NCSD Executive Committee - Treasurer's Report

Caesars Palace Las Vegas, NV ANS 2016 Winter Meeting Sunday, November 6, 2016

Summary:

- 1. The NCSD is financially sound.
 - The funds available at the end of September 2016 were \$31,389.
 - NCSD currently \$1,321 over budget for 2016. This is due to the deposit for the Awards Dinner.
 - 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
 - \$2,500 to support student travel to national meetings and the student conference.
 - \$3,000 as a deposit for the Awards Dinner.
 - ANS is requiring us to list the annual dinner as a line item in the future.
 - Income from the Carlsbad topical should provide additional margin.
- 2. The NCS Pioneer Scholarship Fund is fully 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 scholarhip is paid, the balance will exceed \$63,000.

EXHIBIT ONE - 2nd Quarter of 2016 Financial Statement

EXHIBIT TWO - NCSD Financial Summary

EXHIBIT THREE - NCSD Pioneers Scholarship Summary



Nuclear Criticality Safety Division

EXHIBIT ONE – 2nd Quarter of 2016 Financial Statement

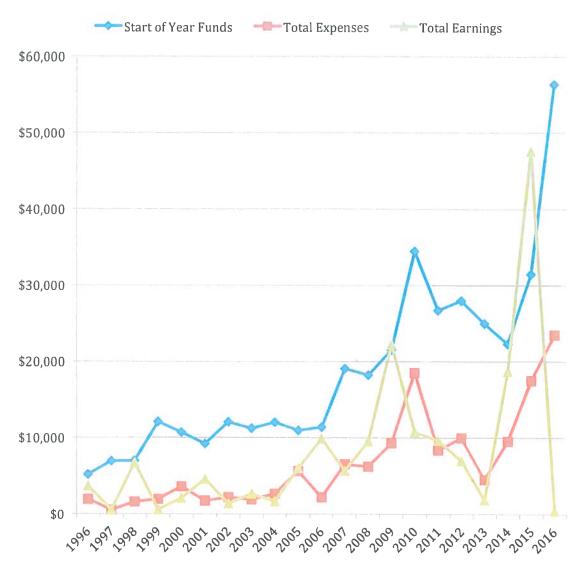
	Actual	Budget	
	9/30/2016	Full Year	Variance
Revenues			
Dues Revenue Allocation*	\$1,292	\$1,722	(\$430)
Contributions	\$500	\$0	\$500
Total Revenue	\$1,292	\$1,722	\$70
Expenditures			
Awards, Plaques	\$55	\$1,100	(\$1,045)
National Meeting Costs	\$3,177	\$250	\$2,927
Student Support	\$2,500	\$2,500	
Scholarship & NEED			
Funding	\$21,000**	\$21,000	
Other Expenses	\$10	\$500	(\$490)
Total Expenditures	\$26,741	\$25,350	\$1,391
Net Surplus/(Deficit)	(\$24,949)	(\$23,628)	(\$1,321)
Fund Balance at 1/1/16	\$56,338	\$56,338	•
Fund Balance at 9/30/16	\$31,389	\$32,710	(\$1,321)

^{*} Members dues are paid proportionally through the year.

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

Nuclear Criticality Safety Division

EXHIBIT TWO –NCSD Financial Summary





Nuclear Criticality Safety Division

EXHIBIT THREE -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		die die	\$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



American Nuclear Society Nuclear Criticality Safety Division Program Committee Meeting Minutes

2016 Winter Meeting
Las Vegas – Caesar's Palace; Milano 1
Sunday 6th November
2:00 – 3:00pm
Chair: Deborah Hill

1. Welcome

The chair of the NCSD Program Committee (Deborah Hill) opened the meeting. She indicated that we had a very good turnout for papers at the current meeting, with NCSD submitting close to 15% of all meeting papers. She also made a request for paper reviewer volunteers, who could indicate their willingness through the committee meeting sign-in sheets.

2. Administrative Aspects

a. <u>Confirmation of Current Program Committee Membership</u>- The chair discussed the current membership of the committee (below). ANS requires all committee members to be up-to-date ANS members, so one member was temporarily removed from the program committee but was re-instated at the meeting.

Chair: Deborah Hill

<u>Vice Chair</u>: Theresa Cutler, will be co-chair for next six months for hand-over <u>Members</u> – 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; Natasha Glazener; Zachary Weems

- b. <u>Volunteers for committee</u>- Two attendees volunteered to be on the committee: Vladimir Sobes and Forrest Shriver
- c. <u>Paper Reviewers</u>- The chair thanked the paper reviewers for the current meeting. The chair will continue asking for input from reviewers on which papers they would like to review, as it seemed to make the reviewing process go more smoothly than simply assigning reviewers with no input.
- 3. Summarize Details for 2016 ANS Winter Meeting (Las Vegas, NV; 6th 10th November 2016)
 - a. The chair stated that NCSD would have 8 technical sessions for the week (schedule is attached). C. Percher requested to switch the Thursday session she was chairing for a session earlier in the week. K. Reynolds volunteered his Tuesday afternoon session.
- 4. Finalize Details for 2017 ANS Annual Meeting (San Francisco, CA; 11th 15th June 2017)
 - a. The chair discussed the current schedule for sessions with the committee (draft schedule is attached) and solicited session chairs, which are included in the attached draft schedule.
 There are currently five sessions scheduled, with the potential to have multiple Data, Analysis and Operations in Nuclear Criticality Safety sessions if the number of submitted papers allows.
- 5. Develop Sessions for 2017 ANS Winter Meeting (Washington DC; 29th October 2nd November 2017)

- a. The chair reminded the group that the NCSD Topical Meeting in Carlsbad, NM is scheduled for September before this meeting, which could reduce the number of papers submitted. Therefore, the suggested sessions are geared toward panel sessions. Ideas for sessions are in attached and will be finalized at the next meeting. Summaries for sessions are due in the next few weeks.
- b. A suggestion for a session was discussed: "A Day in the Life of a Crit Engineer" could allow young people to gain a sense of what NCS engineers do. A suggestion was made that the education committee could help figure out a session. The ANS Young Members Group was planning to do webinars from each division, but the current status of the project is unknown.
- c. Jerry Hicks volunteered to assist with technical communications.

6. Any Other Business

- a. <u>Update on 2017 NCSD Topical Meeting (Carlsbad, NM; 10th 15th September 2017) The request for papers has been sent out, with paper copies available at the meeting. There are three main tracks, a regulatory track, a spent nuclear fuel track, and an experiments track. The first abstracts will be due in April.</u>
- b. Attendance Sheets- The chair addressed the technical session chairs saying the attendance process has changed for the technical sessions. We will now only have NCSD sign-in sheets at the sessions (not the ANS sign-in sheets). If attendees need professional development credit, they will have to fill out the ANS feedback form for the session, which has a section on the end requesting official documentation from ANS that they attended the session. The form needs to be signed by the session chair.
- c. <u>Best Paper</u>- The chair requested everyone fill out the best paper survey sheets, based on technical merit, impact on the field, and strength of presentation. A best paper award will be handed out for each session.
- d. ANS collaborate- The chair informally polled the program committee membership and a few members have not used the Collaborate site. The chair wants to start using collaborate for all program business.
- e. Pacific Basin Nuclear Conference-Forrest Shriver briefed the program committee on the Pacific Basis Nuclear Conference (collaboration between ANS and Asian nuclear groups). There will be a collaboration meeting in San Francisco in 2018. Operations and Power is lead division, but they want help from other ANS divisions, perhaps for paper reviews. It was decided that NCSD agreeing to help was not a question for the program committee but for the executive committee.
- 7. The meeting was adjourned.

NCSD Session Chairs and Alternate Chairs for 2016 ANS Winter Meeting Winter Meeting

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

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

The 2017 ANS Annual Meeting will be held from $11^{th} - 15^{th}$ 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: volunteer Andy Pritchard

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

(+44 1772 764359; deborah.a.hill@nnl.co.uk)

Session Chair: John Miller volunteered

Alt: Theresa Cutler

<u>Summary</u>: 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- volunteeredby C. Percher

<u>Summary</u>: 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: Brian Kidd Alternate Chair: Doug Bowen

<u>Summary</u>: 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: Vlad Sobes, Zachary Weems- volunteered

Alternate Chair: Forrest Shriver, Margaret Marshall-volunteered

<u>Summary</u>: 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?}- Mike Dunn- proposal for workshop on validation, get together with Ian Hill, discussion about potential topical interference. Original proposal aimed at young members, potential co sponsoring.
- 5. ANS-8 Poster Session [DB] {Session Organiser Doug Bowen}
- 6. Neutron Absorbers in Spent Fuel Pools (Panel?) [AS] {Session Organiser Alyse Scurlock} generic letter out from NRC telling licensees to look at NCS in spent fuel pools with responses due in a month. Panel to present lessons learned, perhaps with NRC involvement. Maybe cosponsor with OPD.
- 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]



American Nuclear Society Nuclear Criticality Safety Division Program Committee Agenda (Version 1)

2016 Winter Meeting
Las Vegas – Caesar's Palace; Milano I
Sunday 6th November
2:00 – 3:00pm
Chair: Deborah Hill

- 1. Welcome, Sign in Sheet
- 2. Administrative Aspects
 - a. Confirmation of Current Program Committee Membership
 Chair: Deborah Hill
 Vice 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; Kristan-Wessels; Catherine Percher; Natasha Glazener;
 Zachary Weems
 - b. Paper Reviewers
- 3. Summarise Details for 2016 ANS Winter Meeting (Las Vegas, NV; 6th 10th November 2016)
- 4. Finalise Details for 2017 ANS Annual Meeting (San Francisco, CA; 11th 15th June 2017)
- 5. Develop Sessions for 2017 ANS Winter Meeting (Washington DC; 29th October 2nd December 2017)
- 6. Any Other Business
 - a. Update on 2017 NCSD Topical Meeting (Carlsbad, NM; 10th 15th September 2017)
 - b. Attendance Sheets
 - c. Best Paper

NCSD Program Committee Meeting, Sunday 6th November 2016

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NCSD Program Committee Meeting, Sunday 6th November 2016

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5 Margaret Marshall Char	A Chalall	HZL	margoret-marshall Ointiger	Fes
6 Larry Wetrel	M	BWXT	Mwetzel@bwxt.com	SZB
7 Bos Busch	I Bal	UNM	busch@unm.edu	No
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12 Mike Durin Ma	Marsell	ORUL	dunningerorni.gov	165
13 Susan Stanfill	8thtw	UF	sstanfill@ufl.edu	NO.
14 Kristin Smith &		W.F.	Kristinnsmith @ uflicde	E
15 Julie 1520/2 W. A	End	ORNL	ezoldig 1@ ornl. gov	20
		いわ	goluoglu@nx.upl.edu	No.

NCSD Program Committee Meeting, Sunday 6th November 2016

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6Zander Mausolff	Alexander Mausolff	CF	Zanderm @ ufl.edu	N
Michael Ratliff	Warfard Lotter	Savannigh River	Michael. Ratliff & Srs. gov	A
8 ELLEN SAYUR	Shu M. Saxon	OKN L	saylorem@orn).gov	4
9 Alyse Scurtock	Olipe Simboch	Duke Energy	Alyse. Scurlock @ duke-energy	Y Y
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Nuclear Criticality Safety Division

Education Committee Meeting Sunday 6 November 2016 1:00pm – 2:00pm Caesars Palace Milano 1 Las Vegas, NV

1. Call to Order

The meeting was called to order by Alyse Scurlock, education committee chair. The attendance sheet is attached to these minutes.

2. Confirmation of Current Program Committee Membership

Chair: Alyse Scurlock

Vice Chair: TBD- no volunteers

Members: John Bennion, David Erickson, Kevin Hahn, Katherin Goluoglu, Deb Hill, Jim Morman, Kevin Reynolds, Bob Wilson, Fred Winstanley, Lon Paulson,

John Miller, Jim Baker

3. Old Business

- a. White Paper Status
 - i. Nuclear Criticality Safety Evaluations whitepaper Jim Baker to take over, with help from Dave Erickson
 - ii. Integrating Nuclear Criticality Safety into Design Kevin Reynolds owns it and is working on comments from Jim Baker
 - iii. White Paper Overview and Process Lifecycle Complete
 - iv. Current Status of Successful NCS Mentorship Program Complete
 - v. Current Status of Nuclear Criticality Accidents in the Workplace: Fact Sheet Jerry Hicks to take over. Dave Erickson will provide documentation to help. John Miller will provide comments.
- b. Uranium Chemistry Tutorial with Howard Greenwood Deb Hill stated that this tutorial is scheduled for this ANS meeting.
- c. Status of NCSD survey no update

4. New Business

a. Discussion of NCSD Education Committee Purpose

The chair discussed NCSD Education Committee Purpose and passed out a white paper that gave an overview of the committee (attached to the minutes). The chair opened the discussion to the group to ask for feedback for the purpose of the education committee.

John Miller posed the following questions: how many people use the white papers? Are they still useful and are they providing benefit? An example was given of Fukushima paper right after the accident, which some people felt was very useful. Some sites use them to train young people and it was expressed that they can be a good introduction to issues in the field (SRS example). Perhaps have education committee present a paper on white papers at ANS. The purpose of the white papers was a way for the community to address issues as they came up, as opposed to writing a new standard, which could take many years. Perhaps make the white paper a presentation so it's easier to use.

A number of other suggestions were made by members of the committee and others present, including:

Jim Baker- perhaps education committee could host a fairly regular session or workshop about NCSD topics with a focus on education, i.e. standards discussion by standard chair.

This workshop idea got favorable opinions by meeting attendees. Perhaps have it at the topical meeting in Carlsbad, NM, and video tape it. The goal would be to educate new members and draw younger member participation.

Deb Hill- should look at NCSD survey and see what membership wants.

Andy Pritchard- perhaps have a younger staff standing phone call. Could add ten minutes of NCSD education topics to the NCS DOE phone call.

Forrest Brown- maybe use the workshop through ANS. Maybe repeat some of the successful workshops.

Margaret Marshall- new members section of website? "We have a workshop every other year, etc."

John Miller- linking to DOE NCSP website to collaborate site.

The chair suggested making a small subcommittee in the education committee/program committee with a focus on new member education.

b. Proposed panel session/white paper on criticality safety validation sensitivity/ uncertainty methods- Theresa Cutler

The decision was made to table discussion until program committee meeting.

c. Discussion on organizing NCSD resources - Jim Baker

The website needs to be organized to make it more useful to find white papers, new member information, etc. No one volunteered. A suggestion was made that a subcommittee should be formed within the education committee. A discussion was had about creating a single reference living bibliography of important topics, perhaps with links to ANS transactions. David Erickson and Catherine Percher discussed the existing Kopenen bibliography on the NCSD website.

d. Collaborate Usage

The chair indicated that she will use Collaborate exclusively to communicate to members.

e. New education topics

Have chairs/presenters give a brief overview of NCSD before all sessions

Proposed data and analysis paper to educate people with what resources are out there (similar to workshop/reference idea)

Ning Zhang - Line by line discussion of standards

5. Meeting adjourned.



Nuclear Criticality Safety Division

Education Committee Meeting Sunday 6 November 2016 1:00pm - 2:00pm Caesars Palace Milano 1 Las Vegas, NV

1. Call to Order

2. Confirmation of Current Program Committee Membership

Chair: Alyse Scurlock Vice Chair: **TBD**

Members: John Bennion, David Erickson, Kevin Hahn, Katherin Goluoglu, Deb Hill, Jim Morman, Kevin Reynolds, Bob Wilson, Fred Winstanley, Lon Paulson,

John Miller, Jim Baker

3. Old Business

- a. White Paper Status
 - i. Nuclear Criticality Safety Evaluations whitepaper John Miller/Jim Baker
 - ii. Integrating Nuclear Criticality Safety into Design Jim Baker/Kevin Reynolds
 - iii. White Paper Overview and Process Lifecycle Complete
 - iv. Current Status of Successful NCS Mentorship Program Complete
 - v. Current Status of Nuclear Criticality Accidents in the Workplace: Fact Sheet John Miller
- b. Uranium Chemistry Tutorial with Howard Greenwood Deb Hill
- c. Status of NCSD survey Katherin Goluoglu

4. New Business

- a. Discussion of NCSD Education Committee Purpose
 - i. The Education Committee promotes education in nuclear criticality safety by arranging special events such as tutorials, workshops, short courses, and special publications.
- b. Proposed panel session/white paper on criticality safety validation sensitivity/ uncertainty methods Theresa Cutler
- c. Discussion on organizing NCSD resources Jim Baker
- d. Collaborate usage

Overview of the ANS/NCSD Education Committee

Introduction

This document presents the American Nuclear Society Nuclear Criticality Safety Division (ANS/NCSD) Education Committee's mission and initiatives.

Background

The mission of the ANS/NCSD Education Committee is, "To promote development of nuclear criticality safety expertise by providing opportunities that offer technical growth and recognition."

General Discussion

The following initiatives (i.e., development of White Papers) were identified by consensus to implement the mission statement:

- Overview of the ANS/NCSD Education Committee
- Establish guidance on a definition of a criticality safety engineer specialist
- Establish guidance on a successful nuclear criticality safety mentoring program
- Establish guidance on an acceptable evaluation of nuclear criticality safety
- Establish guidance on a criticality safety engineer specialist training and qualification program
- Establish guidance on proper implementation of the double contingency principle

Conclusion

There is a need for the ANS/NCSD Education Committee to provide a forum for the continued development of nuclear criticality safety expertise within the American Nuclear Society, nuclear industry, U.S. Department of Energy, and U.S. Nuclear Regulatory Commission. The above-identified initiatives serve to steer the coordination of the Committee's efforts.

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



Name	E-mail
KEVIN REYNOWS	KEVIN- REYNOLDS CONS. DOE. GOV
Jim Baker	james, bater @ Srs. vidv
Jolln MilleR	Miller 3 @ Sordin. Gov
JIM MORMAN	JAMORMANG ANL. GOV
TRED WINSOWIEY	adwl e sedutidistics. com
Zachary Weens	zweems@alumni.nd.edu
Madimir Sobes	sobes v@ornl, gov
Vine Zhang	ring, Zhang Claul-gov
Theresa Cuttor	tenterolant.gov
Bob Wilson	robert. wilson Demebe. doe.gov
Jason Mª Call	nccallis 104/2, doe gov
DEBORAH HILL	deborah -a. hill @ Not - co, uk
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Nuclear Criticality Safety Division Education Committee Meeting Hyatt Regency New Orleans Hotel New Orleans, LA June 2016



Name	E-mail
Alyse Scurlock	Lysey 3004@gmail.com
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GREG MAXWELL	gmaxwe//@iastate.edu
RON KNIEF	raknief@sandia.gov
Julie G. Fzold	ezoldig1@ornl.gov
Catherin Perchan	percher 1@ LLNL.gov
Andrew Prichard	andrew, prichard@pnn1.gov
Mikey Brady Rap was	in attendance but did not
0 0	sign in
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Nuclear Criticality Safety Division

Honors and Awards Committee Charter

NCSD-H&A-CHARTER-2016-10-26

Approved by the H&A Committee on October 26, 2016

American Nuclear Society NCSD Honors and Awards Committee Charter

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	Membership	
	Responsibilities	
4.	Operating Guidelines	3
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1. Mission

The Nuclear Criticality Safety Division (NCSD) Honors and Awards Committee is responsible for stimulating the recognition of Division members and for interacting with the Honors and Awards Committee of the Society.

2. Membership

The committee is composed of not fewer than four (4) members, including the Program Committee Chair and the Division Chair. The Chair of the Honors and Awards Committee shall be appointed by the Division Chair.

3. Responsibilities

The NCSD Honors and Awards Committee is responsible for the following:

- Establishing and implementing process for selecting best papers for the NCSD sessions at the Summer and Winter ANS meetings.
- Establishing and implementing process for selecting Technical Excellence and Distinguish Service Awards.
- Ensuring annual NCSD Awards Banquet is planned and organized.
- Identifying the need for new NCSD awards and establishing/implementing the process for selecting award winners.

4. Operating Guidelines

To accomplish the mission of the committee, the following operating guidelines will direct the performance of the NCSD Honor and Award Committee activities.

4.1. Rules of Conduct

- a) The NCSD Honors and Awards committee meets on an as-needed
- b) Meetings may be conducted in person or via telecommunication (i.e., exchange of information between participants using technology, such as phone, video, etc.).
- c) Business may be conducted using electronic correspondence (e.g., e-mail, ANS Collaborate, phone call, video conference).
- d) When voting on an action item, a quorum of at least three (3) NCSD Honors and Awards members must register a vote.
- e) The NCSD Honors and Award Chair tallies votes and notifies the NCSD Honors and Award Committee of the results.

4.2. Best Paper Selection

- a) Before each ANS Summer and Winter meeting, decide how best papers will be graded and generate score sheets to hand out.
- b) Ensure score sheets are completed for each NCSD session, as appropriate.

Note

The number of winners selected for Best Paper may vary from meeting to meeting based on the number of NCSD sessions and the results of the score sheets. The Honors and Awards Committee has the flexibility to review the results of the score sheets and determine if one overall winner will be identified for all sessions or if a winner will be identified for each session.

- c) After each meeting, tally results and determine winner(s).
- d) In October, ensure winner(s) are notified and arrange for a free dinner at the NCSD Awards Banquet for each winner.
- e) Ensure certificate(s) are prepared for the annual awards dinner.
 - The Honors and Awards Committee may prepare the certificates or obtain the certificates through the American Nuclear Society.
 - A template for the Best Paper certificate is provided as an attachment.

4.3. Technical Excellence and Distinguished Service Awards

- a) By early August, send out reminder to encourage nominations and provide deadline (i.e., August 31).
- b) After deadline has expired, chair collects nominations and sends to Honors and Awards committee for evaluation.
- c) By September 30, Honors and Award Committee members evaluate the nominations and determine winners, as applicable.
- d) In October, ensure plaques are ordered from ANS. Contact nominator to develop a very short citation for the plaque and confirm the name spelling, title, etc.
- e) In October, ensure winner is notified and arrange for free dinner at the annual NCSD awards dinner for them + guest.
- f) Get checks from treasurer for awardees and plaque reimbursement. The amount of check is determined based on NCSD budget. Checks will require a mailing address and phone # for each recipient.

4.4. NCSD Awards Banquet

- a) In June, identify individual(s) to plan and coordinate the NCSD Awards Banquet at the Winter meeting.
- b) In August or September, identify and reserve the venue for the banquet. Work with the NCSD treasurer to pay required deposit.
- c) In September, identify sponsors for awards banquet and establish the dinner price.
- d) One month prior to the Awards Banquet, ensure the banquet is announced to NCSD. An example e-mail is provided in the

American Nuclear Society NCSD Honors and Awards Committee Charter

- attachments; however, the banquet details may be communicated via e-mail, ANS Collaborate, NCSD website, or other means.
- e) Collect money from sponsors and attendees and ensure money is turned in to ANS at the Winter meeting. It is crucial to maintain accurate records of money received (i.e., from who and amount).
- f) Ensure dinner program is designed and printed. Confirm spelling of names prior to printing.
- g) Ensure plaques for Distinguished Service, Technical Excellence, and Outgoing Chair are obtained and brought to banquet, as appropriate.
- h) Ensure certificates for best paper are prepared and brought to banquet.
- i) Ensure someone will serve as photographer.
- j) After dinner, ensure an article is prepared for newsletter.

American Nuclear Society NCSD Honors and Awards Committee Charter

Attachments



American Nuclear Society Nuclear Criticality Safety Division

Best Paper Award

Presented to

Ima Neutron

For the Paper Entitled,

"MCNP Simulations in Support of the Nuclear Experiment"

2016 ANS Winter Meeting Las Vegas, NV

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ANS NCSD Chair	
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Date

SAMPLE E-MAIL ANNOUNCING AWARDS BANQUET

Dear NCSD Members.

The ANS Winter Meeting is one month away which means it is time to make plans to attend the Nuclear Criticality Safety Division Awards Banquet! The NCSD Awards Banquet is a good time to recognize our members' achievements, network with peers, and connect with old friends. The details of the Awards Banquet are provided below.

Where:

Name of Restaurant

4043 Howard Hughes Parkway

Las Vegas, NV 89169

http://www.lawrysonline.com/lawrys-primerib/las-vegas

When:

MONDAY, November 7, 2016

Time:

6 – 7 PM (Happy Hour – Cash Bar)

7 – 9 PM (Dinner & Awards)

Cost:

\$60 (Early Bird Rate - mailed by October 21, 2016)

\$70 (Cost at the door)

Prepay Option:

We encourage you to take advantage of the early bird rate by mailing your payment no later than **October 21, 2016** to the address below. Make checks payable to **ANS NCSD** with **Awards Dinner** in the memo line and send to:

Mr. John Doe

ATTN: NCSD Awards Dinner

123 Wildcat Drive Paducah, KY 42001

RSVP:

Regardless of whether you are paying in advance or paying at the

door, please RSVP by Friday, October 21, to John Doe at idoe@gmail.com

because we need a headcount for our dinner reservations.

Sponsor Information:

NCSD has had outstanding support from sponsors in the past, and we greatly appreciate support this year. Your support helps reduce costs and promote a great attendance at the awards dinner. We have the following levels of sponsorship:

Gold \$600

Receives up to three dinner

tickets

Silver

\$400

Receives up to two dinner tickets

Bronze \$200 Receives one dinner ticket

The sponsors will be identified by level in the Awards Banquet Program and recognized during the Awards ceremony. The sponsors will also be recognized in the next Division newsletter.

Please pass this information along to others who may be interested in becoming either a corporate or individual sponsor. **Those interested in sponsoring the banquet should contact** John Doe at idoe@gmail.com

Thank you, NCSD Chair