#### **AMERICAN NUCLEAR SOCIETY**



#### **Nuclear Criticality Safety Division**

Executive Committee Meeting Sunday 29<sup>th</sup> October 2017 3:00pm – 4:30pm Washington 3 Marriott Wardman Park Washington DC

#### 1. Call to Order

The Executive Committee Chair, Deborah Hill, 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	Deborah Hill		
Vice Chair/Chair Elect	Kevin		
vice Cham/Cham Elect	Reynolds		
Treasurer/Finance	Fred		
Chair	Winstanley		
Clian	(on phone)		
Corretery	Catherine		
Secretary	Percher		

Four 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
2020	Julie Ezold	no
2020	David Pilgrim	no
2020	Tom Hines	no
2019	Brandon O'Donnell	no
2019	Andrew Wysong	no
2019	Brittany Williamson	yes
2018	Tracey Henson	yes
2018	Margaret Marshall	yes
2018	Jason McCall	yes

#### 2. E-mail Votes since last meeting (D. Hill)

- i. Approval (2017-08-30) of Executive Committee Minutes from 2017 Annual Meeting
- ii. Approval (2017-09-19) of 2018 NCSD Budget Proposal

**ACTION:** Will do an email vote offline to approve extra membership printing cost.

- 3. 2017 NCSD Topical Meeting in Carlsbad (J. Lucchini / S. Goluoglu)
  - i. J. Lucchini presented participant data from ANS NCSD Topical- 101 participants. Breakdown by state and nationality provided as an attachment.
  - ii. Financial report was also provided. Excess revenue of \$53,538 and the NCS Division gets \$13,384.50 (not completely finalized).
  - iii. Thank you for giving the Carlsbad section the opportunity to host the Topical.
  - iv. J. Miller- should discuss interfaces with the division for future meetings.
    - i. Lucchini stated he was going to document lessons learned.
  - v. T. McLaughlin- commented on the large international participation.

#### 4. Division Officer Reports

- i. Chair's Report (D. Hill)
  - i. Unlike other divisions, the NCSD Executive Committee has been having phone meetings every six weeks. D. Hill thanks everyone for their participation and talked about the work done so far to address her goals as the NCSD chair. The first goal was to help people through the bureaucracy to get things done, which has been largely successful except for her delay on providing input of the Bylaws and Rules. As far as the goal for getting more young people involved, the NCSD challenge looks like it will be a success and younger people are getting on to committees. We need to keep up with our mentoring, which was also addressed in the ANS President's meeting as well. The president was keen on getting one or two things done and do them well. Committees should stay focused on one or two things. Thanks to everyone for their efforts.
- ii. Vice Chair's Report (K. Reynolds)
  - i. The Professional Divisions meeting this morning was interesting. It was the first time to invite a larger audience (committee chairs, etc). The new ANS President is energetic and gave a long presentation about the state of the society. From his perspective, dramatic change is needed in terms of finance and membership or we risk not being a society in the future. The operating deficit is 1.4 million and all revenue streams are trending down, mainly commercial publications and advertising. 11,000 members in national ANS- NCSD was reported to have 400, although that number seems questionably low and likely reflects a specific point in time in 2017. We do know that our membership numbers are down. Forty five percent of the society's membership is over the age of 55, and so the society knows it needs to focus on younger membership. The ANS President will stay for the next 3 years after his term to help the society.
- iii. Secretary's Report (C. Percher)
  - i. Nothing to report
- iv. Treasurer's Report (D. Winstanley)
  - i. NCSD is doing quite well and is well-funded. Scholarship is fully funded and we are paying into it to make sure it is fully funded. No income from the topical is included in the budget. Our main funding is membership dues and income from topicals and ICNC (in the US). The treasurer's report is attached.
- v. 2016 / 17 Chair's Report (J. Miller)
  - i. Nothing to report

#### 5. Sub-Committee Reports

- i. Program (T. Cutler)
  - i. 9 sessions for this meeting. 5 for the 2018 Annual meeting and 8 sessions for 2018 Winter Meeting. D. Hill thanks to T. Cutler to effort put into the program committee.
- ii. Education (A. Scurlock)
  - i. The Education Committee meeting focused on targeting younger generation and including workshops and tutorials. Ideas for workshops at student conference and annual meeting were discussed. There was a suggestion to make a presentation to pass out to local sessions about the NCSD. The committee will work with YMG to produce webinar for a day in the life of an NCS engineer/ division overview and discuss key criticality safety challenges at their sites. ACTION for A. Scurlock: Will put actions on Collaborate group.
  - ii. D. Hill- need to add value for our members- if you have ideas, please tell A. Scurlock.
- iii. Membership (M. Gorham)
  - i. We are hosting a competition during the meeting for students and young members. Promote the division if people ask you questions. There are great prizes available.
  - ii. Need a co-chair on the Membership division and more committee members.
- iv. Newsletter / Publications / Website (T. Henson)
  - i. Not a lot of committee work since last meeting and will have a committee meeting after the Executive committee. Lots of work done by N. Zhang on the website, with help from L. Wetzel.
  - ii. Renaming to Communications Committee
- v. Honors & Awards (T. Henson)
  - i. Awards banquet is Tuesday evening at 6, meet 5:30 in the lobby. There will be a prize for best costume. There is a new form and criteria for best paper. We met all our goals for the committee. C. Percher will become chair at the end of this meeting.
- vi. Goals (M. Marshall)
  - i. All chairs were solicited for 1 and 5 year goals. K. Goluoglu assembled into a document. M. Marshall will be working with those goals to make sure they're attainable and trackable. We will use a form on a website and check in every six months. T. Cutler- need more coordination between all stakeholders for goals as there were surprising goals on the website. D. Hill clarified that those goals on the website spreadsheet were proposals for discussion and not finalized actionable goals.
- vii. By-Laws and Rules (J. McCall)
  - i. The committee is currently getting last-minute comments to address the by-laws and rules and is working to streamline the documents.
- viii. Nominating (J. Miller)
  - i. Nominations are all turned in ahead of schedule and candidates should be getting emails soon.
  - ix. Scholarship (J. Ezold)
    - i. M. Marshall- fair number of applications. Nina Colby Sorrell from NCState was the winner and she will be at the H&A dinner. The next round is coming soon, opens on Nov 19 and runs through Feb 1.
       ACTION N. Zhang: Need to make sure there is a link on the website.

- ii. A.Scurlock- A one-pager would be good to have so we can share it with social media. **ACTION for M. Marshall**.
- 6. Other New, Old or Ongoing Business
  - i. 2018 ANS Student Conference Update: University of Florida (Rae Bruenderman)
    - i. The conferences will be April 5-7 with the theme of "Nuclear Equality." Chris Perfetti will give an intro to the SCALE system and criticality safety. The call for papers has been released and the division will be supporting the best papers for \$500. Paper reviewers are requested and if you are interested in judging, please contact Zander Mausolff at <a href="mailto:zander@ansstudentconference2018.com">zander@ansstudentconference2018.com</a>. ACTION: A. Scurlock will discuss about hosting an NCSD workshop.
  - ii. Nuclear Grand Challenge on "Rejuvenate Nuclear Technology Infrastructure and Facilities" (A. Klein [2016/17 ANS President])
    - i. A. Klein thanked the division for all the ideas from the Grand Challenges-the society decided on 9 Grand Challenges. The next step is how we move forward. He suggested the NCSD division has a role to play in one of the nine- how to rejuvenate aging nuclear facilities. He cautioned that if we don't do this through the division structure, we won't get it done and encouraged the NCSD to help move this challenge forward, perhaps through a Nuclear Technology article. ACTION: D. Hill will discuss this at the next six weekly NCSD telecon and raise it with DESD, identified as the second key stakeholder in this Grand Challenge.
  - iii. Future Evolution of NCSD Pioneer Scholarship (D. Hill)
    - i. ACTION: D. Hill will put up a question on collaborate to request input on what to do with the scholarship- do we want another?
  - iv. Chartership (J. Miller)
    - i. UK institute of physics does a Chartership, a professional designation, ideally from ANS that acknowledges your contribution to the Division and moving NCS forward. Made up of skills and involvement, basic requirements: such as a degree, 5 years of working, NCSD and/or standards involvement, presentations, etc. Preliminary discussions with ANS HQ were not fruitful, maybe it's something we can do as a division?
    - ii. D. Heinrichs: Talk to other technical divisions.
    - iii. K. Kimball: look at society of fire protection engineers "Member grade"
    - iv. A. Pritchard: Could be used as a way to qualify as a senior NCS engineer, a way to vet members when they move jobs
    - v. ACTION: A. Pritchard: monthly phone call
    - vi. ACTION: J. Miller to develop a more complete plan/request and bring back to the executive. Any that want to help should contact J. Miller.
  - v. Charters for all the committees needed for the website. ACTION: All committee chairs need to work to complete their charters.



Name	Initial when present
Only those listed below are voting members of your division	
Deborah Hill, Chair	Delporah Hill
Kevin Reynolds, Vice Chair	Knist The Cal
Catherine Percher, Secretary	Cather Pale
Dominic Winstanley, Treasurer	on phone
John Miller, Immediate Past Chair	gn
Mary Lou Dunzik-Gougar, Board Liaison	i Here.
Julie Ezold	
Tracey Henson	1/4/1
Tom Hines	May perh
Margaret Marshall	1 1 2 1 1 1
Jason McCall	Olynt Clill
Brandon O'Donnell	J.J. M all
David Pilgrim	
Brittany Williamson	Sutty M William
Andrew Wysong	O ,
	(if there is not enough space, feel free to use the other side)
Others, please PRINT in	
Name	E-mail
Mathew Wilson	Mawilson@paschalsolutions.com
/ /	TPM TPMEPOBOX, CAM
Alyse Scurlock	Alyse, Sourlock@duke-energy.com



#### Others, please PRINT in

Name	E-mail
Carry Wetzel Brittany Williamson	Mwetzel@bwxt.com brittany, williamson @grant 513.gov
Mackenzie Gortham	gorhamml@id.doe.gov
May Lou Dunzk-Gongar	(board Ligison) MLDGE ISU. EDU



#### Others, please PRINT in

Name	E-mail
Vadimir Sches	sobes vaornigov
Marin Barnett JOHN MILLER	Marvin barnett @ 515 gov
	MILLERSO SANDIA, FOU
Theresa Cutter	tentler@ lanl.gov  jason; mecall@cns. doe.gov  lainrich 10 ell.gov
Jason M= Call	Jason McCall & CN. doe. gov
DAVID HEINRICHS	heinvider 10 llel. gov
RONALD KNIEF	raknief@Sandia.gov
	70000
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#### Others, please PRINT in

Name	E-mail
Andrew WPrichard	andrew. Prichard @ print. sov
Ning Zhang	Ting Zhang @ land, sov.
Jerry Hicks	serry hicks @ aol.com
ELLEN M. SAYLUR	saylorem @ orn!.goy
Bub Wilson	robertivilson Demobe, doe, gov
Davi O Erickson	Da-Erickson @ blue beron. US
James Bunsen	Jbunsen@LAIVL.gov
TRANDY Shackelford	WRShackelford @Nucleur Fuel Services. com
Kevin Kimball	Kevin. Kimball@cns. doe, gov
Margaret Marshall	margaret. marshall Cinl. gov
Dennis Mennerdahl	dennis, mennerdahleems, se
Jel Lucchini	lucchini @ land gov
John D Isess	john bess @in 1.90v
Roger Harshbarger	NASKOTK C. Talabe, go
Tracey Henson	thenson Dpaschalsolutions.com
Matthew Wilson	ma vilsone paschal solutions, com
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#### **GOING FORWARD**

- Encourage members, divisions, and leadership to promote and discuss the Challenges with public policymakers, government officials, community leaders, industry, others
- Encourage divisions to hold focused topical meetings, technical, and plenary sessions to determine paths forward
- Encourage technical journal papers, books, webinars, social media, ANS Collaborate discussions, position statements, curriculum development, *Nuclear News* and *Radwaste Solutions* articles, letters to the editor

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ANS NUCLEAR GRAND CHALLENG	GES	Engaging ANS to Move NGCs Forward			
Grand Challenge	Suggested Lead Division(s)	Suggested Cooperating Divisions	Suggested Cooperating Committees	Applicable Policy Statements	
Transform the way the nuclear technologies sector thinks about public engagement	OPD	NCSD, BMD, IRD, ETWDD, RPSD	Communications, Government Relations, PWANS	24, 26, 63, 77, 79, 83	
Establish the scientific basis for modern low-dose radiation regulation	RPSD & BMD	IRD, OPD, YMG, NISD	Communications, Government Relations, Public Policy, International	28, 41, 74	
Close the nuclear fuel cycle	FCWMD	DESD, AAD, MSTD, OPD, RPD	Communications	11, 22, 45, 47, 74, 76, 78, 80	

ANS NUCLEAR GRAND CHALLENG	GES	Engaging ANS to Move NGCs Forward			
Grand Challenge	Suggested Lead Division(s)	Suggested Cooperating Divisions	Suggested Cooperating Committees	Applicable Policy Statements	
Ensure continuous availability of radioisotopes	IRD	BMD, YMG, AAD, FCWMD, NNPD	Government Relations, Public Policy	18, 28, 30, 72	
Rejuvenate nuclear technology infrastructure and facilities	DESD & NCSD	NISD, RRSD, HFICD		13, 26, 53	
Accelerate development and qualification of advanced materials	MSTD	FED, ANSTD, MCD		12, 25, 40	

ANS NUCLEAR GRAND CHALLENG	GES	Engaging ANS to Move NGCs Forward			
Grand Challenge	Suggested Lead Division(s)	Suggested Cooperating Divisions	Suggested Cooperating Committees	Applicable Policy Statements	
Accelerate utilization of simulation and experimentation	MCD & THD	RPD, FED, RRSD		12, 25, 40, 48, 51	
Expedite licensing and deployment of advanced reactor designs	NISD	YMG, THD, ANST, HFICD, NNPD	Government Relations, Public Policy	24, 25, 46, 77, 80	
Expedite nuclear education updates and knowledge transfer	ETWDD	YMG, OPD	APPC, SPCC, NEED	21, 29, 48, 61, 66	

#### ANS NCSD Executive Committee – Treasurer's Report

Nuclear Criticality Safety Division Sunday 29 October 2017 3:00pm – 4:30pm Marriott Wardman Park Washington DC

#### Summary:

- 1. The NCSD is financially sound.
  - The funds available at the end of 2016 were \$35,516.71.
  - The estimated funds on hand (30 September 2017) are \$32.179.
  - The estimated funds on hand at the end of 2017 will be \$30,000.\*
  - The expenditures to 30 September 2017 are:
    - \$2,500 to support student travel to national meetings and the student conference.
    - \$250 for Best NCS paper at the student conference.
    - \$57.93 for advertising for student competition at Winter Meeting
    - \$1200 deposit for NCSD Awards Dinner
    - \$60.50 awards/ plaques (Summer meeting)
    - \$500 to Young Members Group for support to Young Professionals Congress
  - Planned revenue/ expenditures and those since 30 September 2017:
    - \$3,000 to the NCS Pioneer Scholarship Fund (planned)
    - Awards/ plaques for Awards dinner (to \$1,200 budget)
    - 2017 Winter Meeting NCSD Student competition prizes (to \$500 budget)
    - Balance of NCSD Awards dinner
  - The NCS Pioneer Scholarship Fund is fully funded. The balance at the end of 2016 was \$63,408.
- \* No income from the 2017 Topical is included.

#### Treasurer's comments:

The annual NCSD budget runs at a net deficit. This is generally turned into an overall surplus by income from the biennial Topical Meetings. This enables levels of student support and the scholarship fund to be maintained.

The scholarship fund is fully funded. The \$3k payment from NCSD in 2017 is to be made to ensure this funding level is maintained. This is reviewed by NCSD Exec on an annual basis taking into account interest made on the fund.

EXHIBIT ONE – Financial Statement 30 September 2017

EXHIBIT TWO - NCSD Financial Summary

EXHIBIT THREE - NCSD Pioneers Scholarship Summary



#### **Nuclear Criticality Safety Division**

#### **EXHIBIT ONE – Financial Statement 30 September 2017**

	Actual 30 Sept 2017	Budget Full Year	Variance
Revenues	•		
Dues Revenue Allocation[1]	\$1231.00	\$1,712.00	(\$481.00)
Meeting Revenue <sup>[5]</sup>	0	\$6,000.00	(\$6,000.00)
Total Revenue	\$1231.00	\$7,712.00	(\$6,481.00)
Expenditures			
Awards, Plaques	\$60.50	\$1,100.00	(\$1,039.50)
National Meeting Costs <sup>[4]</sup>	0	\$5,000.00	(\$5,000.00)
Student Support	\$2,750.00	\$3,000.00	(\$250.00)
Scholarship & NEED Funding	0	\$3,000.00	(\$3,000.00)
Other Expenses	\$1,757.93 <sup>[6]</sup>	\$1120.00	\$637.93
Total Expenditures	\$4,568.43	\$13,220.00	(\$8,651.57)
Net Surplus/(Deficit)	\$(3,337.43)	\$(5,508.00)	\$2,170.57
Fund Balance at 1/1/17 Fund Balance	\$35,516.71 \$32,179.28 <sup>[2]</sup>	\$35,516.71 \$30,008.71 <sup>[3]</sup>	\$2,170.57

#### **Notes:**

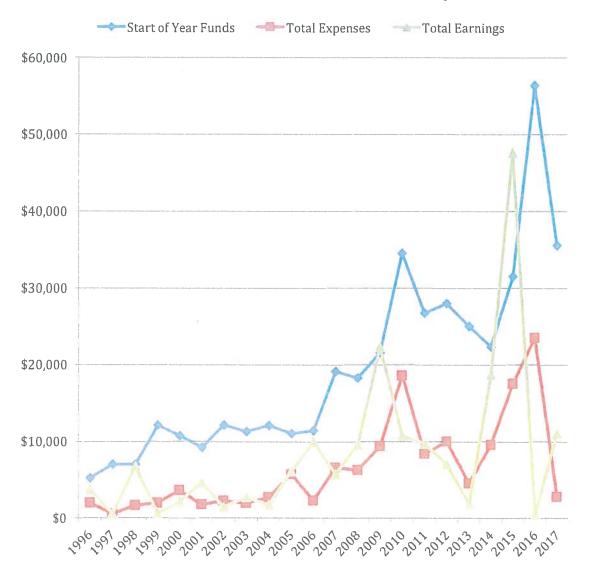
- [1] Members dues are paid proportionately through the year
- [2] Fund balance at 30 September 2017
- [3] Full year budget fund balance at 31 December 2017
- [4] Cost of Awards Dinner
- [5] Revenue from Awards Dinner
- [6] Includes \$1,200 deposit for Awards Dinner (strictly a National Meeting cost)

<sup>\*</sup> No income from the 2017 Topical is included.

#### **AMERICAN NUCLEAR SOCIETY**

#### **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	-		\$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	\$63.408	\$22,792	\$40.616	\$21,000				\$3,000
2017	\$63,408								\$3,000

The table represents the summary at the start of 2017. Interest on the fund is allocated at the end of the year. The 2017 statement will be issued in February 2018.

Activity up to 30 September 2017:

-\$3,000 (Scholarship payment)

Current Balance: \$60,408

Activity since 30 September 2017 and planned to end of 2017

- \$3,000 transfer in from NCSD (planned)
- \$300 donation from winner of 2017 Distinguished Service Award to Scholarship

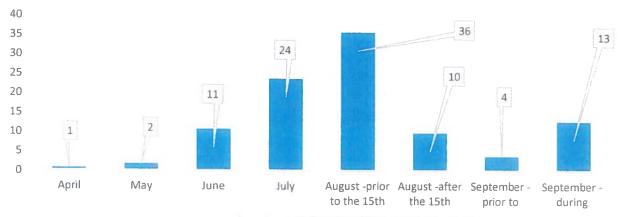


# 2017 NUCLEAR CRITICALITY SAFETY DIVISION TOPICAL MEETING

September 10-15, 2017
Pecos River Village Conference Center,
Carlsbad, NM

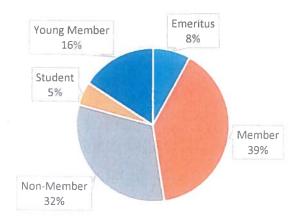
#### 101 participants

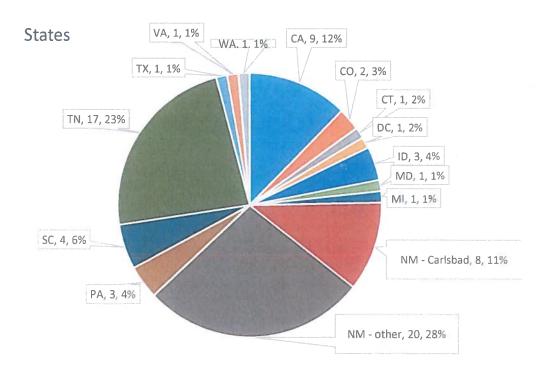


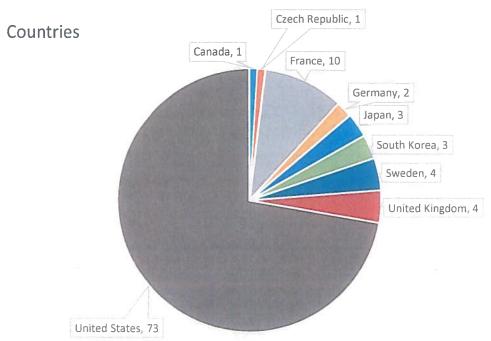


### Categories

- Emeritus
- Member
- Non-Member
- Student
- Young Member







#### MEETING EXPENSES

All line items must include the justification for the bases of the entry. Typical values are included for guidance. If the meeting host is contracting services, the values for the lines shall be left as \$0 and the total value of the contracts must be included in the contract scatter. The description of the contraction lemms shall be lated, and the total value of the contraction attached for the booking from Fire of a contract, them exhall be a formal contract between the product of the contraction of t

2017 NCSD Topical September 10-15, 2017 Certsbad, NM Carlsbad section

TITLE OF MEETING
DATE OF MEETING
LOCATION OF MEETING
MEETING HOST (SECTION or ANS HQ)

Date Onginal Budget Prepared.	5/13/2016	/2016 Submitted By Jef Lucchini, General Chair Approved By:				
Date Final Budget Approved						
	A1 1 00 10 75	************				
	November 2016 ES		June 2017 ESTIMATED			
ADMINISTRATION	ESTIMA	TED BASIS	ESTIMATED BASIS			
1 LOCAL COMMITTEE EXPENSES		\$300	\$300			
2 MEETING FLYERS/NOTICES		\$100	\$100			
3 CALL-FOR-PAPERS		\$100	\$100			

ADMINISTRATION	No		2016 ESTIMA ESTIMATED			June 2	017 ESTIMATED			FI	NAL
1 LOCAL COMMITTEE EXPENSES			\$300	HASIS			ESTIMATED B	ASIS			FINAL BASIS \$525 95 See #V
2 MEETING FLYERS/NOTICES			\$100				\$100				\$0.00
3 CALL-FOR-PAPERS			\$100				\$100		ŀ		\$0.00
4 SHIPPING COSTS			\$300				\$300				\$67.77 See #R
5 NUCLEAR NEWS ADVERTISING			\$2,300		2	812.5	\$1,975 S	go #A	2	8125	\$1,975.00 See #R
6 SIGNS AND POSTERS			5500				\$500				50.00
7 TICKETS AND BADGES	18 95	125	\$2 369		18 95	125	\$2,369		102	18 95	\$1,932.90 See #R
8 ON SITE ADMINISTRATION			\$500				\$500				50.00
9 MEETING SPACE RENTAL			\$5.000				\$5 000				\$5,715.00 See#U
MEETING WEB-SITE (includes On											
10 Line Registration)			\$3 000				\$500 S	ee#H	ĺ		\$343 50
SUB TOTAL			\$14,469				\$11,644				\$10,560.12
PUBLICATIONS:											
Paper Submission and Review				\$1500 +							\$1500 setup 5
11 Process	100			\$17/paper	7.4	2758	\$2.758 S	ion #B	61	17	\$2,537.00 #R
12 Program Printing			\$100			2100	\$100		1		\$0.00
13 Preparation of Master CI			\$200				5200		110	2 83	\$311.30 See #R
14 CD duplication cost			\$200				\$200 S	on #C		6 00	\$0.00
15 Proceedings/Abstract Book			\$0				\$0				50 00
16 Shipping Charges			50				\$0				\$0.00
17 Journal Costs			50				50				50 00
18 Distribution costs			\$0				50		ļ		\$0.00
SUB TOTAL			\$3,700				\$3,258				\$2,848.30
SPECIAL EVENTS	#	FEE	AMOUNT			FEE	AMOUNT		#	FEE	AMOUNT
19 SPOUSE/GUEST HOSPITALITY			\$100				\$100				\$0.00
20 BREAKFASTS (# provided)	0	50	\$0		0	\$0	\$0		0	\$0	\$0.00
MORNING COFFEE BREAKS (# 21 provided)	120	\$35	54 200		120	\$35	\$4 200				\$379 76
22 AFTERNOON BREAKS (# provided)	120	\$35	\$4 200		120	\$35	\$4 200				6200
23 RECEPTION (# provided)									i		\$300
	125	\$25	\$3,125		125	\$25	\$3.125				\$2,762.38
24 LUNCHEONS (# provided)	120	\$80	\$9,600		120	\$80	\$9.600				\$4,950.00
25 BANQUET (# provided)	125	\$35	\$4 375		125	\$35	\$4.375		1		\$4,043.11
26 SPOUSE/GUEST TOURS			\$1,500		ł		\$150 S	iee#D			\$360.00
27 TECHNICAL TOURS			\$1,000		ì		\$1 000				\$0.00
28 OTHER EVENTS			\$900				\$900				\$1,512.50 See #T
SUB TOTAL			\$29,800				\$27,650				\$14,307.75
CONTRACTED SERVICES:											
AUDIO/VISUAL Contractor vendor											
29 name			\$0				\$0				\$0.00
30 Contract #1 Airport bus			\$8 000				\$4,000 S				\$0.00
31 Contract #2 Hotel Conf. Center			\$2 250		ŀ		\$200 5	ioo#F			\$0.00 See #L
32 Contract #3 PRVCC insurance			\$0				\$500 S	ee #G			\$171.74
SUB TOTAL			\$10,250				\$4,700				\$171.74
OTHER EXPENSES	# FEI	E A	MOUNT		n	FEE	AMOUNT		# 1	EE /	VKOUNT
33 REGISTRATION PACKET	125	\$15	\$1,875		125	\$15	\$1,875		100	15	\$0.00
34 AWARDS/CERTIFICATES			\$1 500		Į.		\$1,500				\$0.00
35 REFUNDS			None		!		None				\$9,615.11 See #S
CREDIT CARD SERVICES AND					1						
36 FEES		3 50%	\$4 500		ŀ	3 50%	\$4.500			3 50%	\$1,967.98 See #R
37 ADDITIONAL ITEMS			\$400		l l		\$400		2	18	\$36 00 See #Q
38 CONTINGENCY		20%	\$13,138.75			20%	\$11,105		1	_0	\$0.00
SUB TOTAL			\$21,414				\$19,380				\$11,619 09
TOTAL EXPENSES			\$78,833				\$66,632				\$39.507.00
							,				
SUMMARY OF REVENUE AND EXPENSES											
TOTAL MEETING REVENUE			\$92,125				\$95 000				\$93,045,00
TOTAL MEETING EXPENSES			\$78 833				\$66.632				\$39,507.00
TOTAL EXCESS			\$13 293	14%			\$28.368	30%			\$39.507.00 \$53.538.00 5
								- 274			
MEETING HOST/ORGANIZER											
(Local Section or ANS)		25%	\$3 323 13		i	25%	\$7.092			25%	\$13 384 50
DIVISION		25%	\$3 323			25%	\$7 092			25%	\$13 384 50
ANS Total		50%	\$6 646 25		ĺ	50%	\$14,184			50%	\$26 769 00
10[2]		100%	\$13 293		l	100%	\$28 368			100%	\$53 538 00
	1				1				1		

At the time of preliminary budget review and approval by NPC and ANS Meetings Department, a list of the expenses that are the responsibility of the meeting organizers (mooting host or division) will be identified. These costs (or portions the of) will be deducted from the meeting organizer's portion of the excess revenue. The organizers are encouraged to discuss these items with the ANS Director of Meetings and the NPC Chair before presenting their preliminary budget for approval.

EXPENSES THAT WILL BE DEDUCTED FROM PORTIONS OF THE EXCESS REVENUES Item # Description of Overage N/A

- NOTES

  A Was \$2 300 June and July issues at 75% off 1/2 page + \$350 design by ANS

  #B Was \$3,700 based on expected 100 submissions \$1500 +\$17/paper

  Was \$1,300 Wild be laken came by NNSUCEMRC

  #B Was \$1,500 Veloniteers sol up a guest program at minimum cost for every day of the week

  #E Was \$2,800 Most of the participants will rend a car
  others will be picked up at meably arroreds (Hobbs, Roewell)

  #F Was \$2,250 City of Cartisbad will provide shuffle : \$4(clay)person

  #F Was \$2,250 City of Cartisbad will provide shuffle : \$4(clay)person

  ## Was \$3,000 Whester hosted by ANS Cartisbad section

  ## Was \$3,000 Whester hosted by ANS Cartisbad section

  ## Was \$3,000 Whester hosted by ANS Cartisbad section

  ## Credit card fee reumbursed to Fabian Sommer and Maik Stuke

  ## ANS Invoice final I deal of 10/18/2011 
  ## ANS Invoice final I deal of 10/18/2011 
  ## Exponses rembursement for 3 Keynotia Speakers (Robert Wisson, Calvin Hopper | Tom mcLaughfin) and 2 students (Jesse Norns Anthony Nelson) required by LANL grant

  ## Cash bar and Finitestimment for Banquet and Roception

  ## Cash bar and Finitestimment for Banquet and Roception

  ## Cash bar and Finitestimment for Banquet and Roception

  ## Cash bar and Finitestimment for Banquet and Roception

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#### AMERICAN NUCLEAR SOCIETY CLASS I TOPICAL MEETING FINANCIAL PLAN

TITLE OF MEETING DATE OF MEETING LOCATION OF MEETING MEETING HOST (SECTION or ANS HQ)

2017 NCSD Topical September 10-15, 2017 Carlsbad, NM Carlsbad section

Date Original Budget Prepared: 05/13/2016	Submitted By: Jef Lucchini, General Chair
Date Final Budget Approved:	Approved By:

				EETING RE	VENUE	5						
			2016 ESTIMA				17 ESTIMA				NAL	
REGISTRATIONS	#	FEE	AMOUNT	BASIS	#	FEE	AMOUNT	BASIS	#	FEE	AMOUNT	BASIS
1 MEMBERS, early regist.	100	\$750	\$75,000		400	0750	675.000			A		
2 MEMBERS, late regist	100				100	\$750	\$75,000		32	\$750	\$24,000	
3	1	\$850	\$0		0	\$850	\$0		7	\$850	\$5,950	
3 NONMEMBERS, early reg.	0	\$900	\$0		0	\$900	\$0		19	\$900	\$17,100	
4 NONMEMBERS, late reg	0	\$1,000	\$0		0	\$1,000	\$0		11	\$1,000	\$11,000	
5 ONE-DAY MEMBER, early reg.	10	\$450	\$4,500		10	\$450	\$4,500		0	\$450	\$0	
6 ONE-DAY MEMBER, late reg	0	\$510	\$0		0	\$510	\$0		1	\$510	\$510	
7 ONE-DAY NONMEMBER, early reg.	0	\$540	\$0		0	\$550		See #C	0	\$550	\$0	
8 ONE-DAY NONMEMBER, late reg 9 SPOUSE/GUEST	0	\$600	\$0		0	\$610		See #D	0	\$610	\$0	
10 STUDENT	5	\$75	\$375		5	\$100	\$500	See #E	0	\$100	\$0	
	5	\$200	\$1,000		5	\$200	\$1,000	See #A	3	\$200	\$600	
11 EMERITUS MEMBER	5	\$150	\$750		5	\$200	\$1,000	See #B	6	\$200	\$1,200	
EMERITUS MEMBER, late reg						\$300			2	\$300	\$600	
YOUNG MEMBERS, early regist.						\$600			12	\$600	\$7,200	
YOUNG MEMBERS, late reg						\$700			4	\$700	\$2,800	
STUDENT, late reg						\$300			2	\$300	\$600	
SUB TOTAL	125		\$81,625		125		\$82,000		99	*	\$71,560	
SPECIAL EVENTS												
12 LUNCHEON	0	SO	S0		0	SO	SO		0	SO	\$0	
13 RECEPTION	0	\$0	SO.		0	\$0	SO.		4	\$25	\$100	
14 BANQUET	0	SO	SO		0	SO	\$0		4	\$50	\$200	
15 SPOUSE/GUEST TOURS	0	S0	SO		٥	\$0	\$0		2	\$25	+	
16 TECHNICAL TOURS	0	\$0	S0		0	\$0	\$0 \$0		0		\$50	
17 OTHER EVENTS	10	\$50	\$500		10	\$50	\$500		2	\$0 \$50	\$0	0 "
SUB TOTAL	"	000	\$500		10	330	\$500		4	\$50	\$100 \$450	See #J
OTHER REVENUE												
18 EXHIBITS	0	S0	SO		1	\$2.500	60.500	C #C		40 =0-	440.05-	
19 CONTRIBUTIONS	10	\$1.000				. ,		See #G	4	\$2,500	\$10,000	
20 PROCEEDINGS SALES	0	\$1,000	\$10,000 \$0	i	10	\$1,000	\$10,000		10	\$1,000	\$10,000	See #K
21 WORKSHOPS	0	\$0 \$0	\$0 \$0		0	\$250		See #H	0	\$250	\$0	
SUB TOTAL	"	30	-		0	\$0	S0		29 \$	40 or \$15	\$1,035	
- CONTRACTOR			\$10,000				\$12,500				\$21,035	
OTAL REVENUE			\$92,125				\$95,000				\$93,045	

REGISTRATION FEES INCLUDE: (List Items for each category)

Full Registration One-Day Registration Spouse/Guest Registration Student Registration Emeritus Registration

registration, reception, banquet, proceedings, tour what is provided with full registration that day reception, banquet, Carlsbad Caverns excursion registration, reception, banquet, proceedings, tour registration, reception, banquet, proceedings tour

COMPLIMENTARY REGISTRATIONS PROVIDED: (List all that will be provided) registration, reception, banquet, proceedings, tour or excursion

COMPLIMENTARY HOTEL ROOMS (Define your policy for the use and distribution) none

#### NOTES:

LANL grant #A

#B

was \$150 in previous budget exercise - Goes up to \$300 for standard/onsite registration after Aug.15 (same for Students)

#C was \$540 in previous budget exercise

#D was \$600 in previous budget exercise #E was \$75 in previous budget exercise

#F Achieved (Navarro \$5,000; NWP \$2,500; NMSU/CEMRC: \$2,500 )

#G One (LANL) received

updated, to match the final Publication Plan #H

Contribution from Blue House Bakery #J

LANL grant to invite Keynote Speakers and Students #K

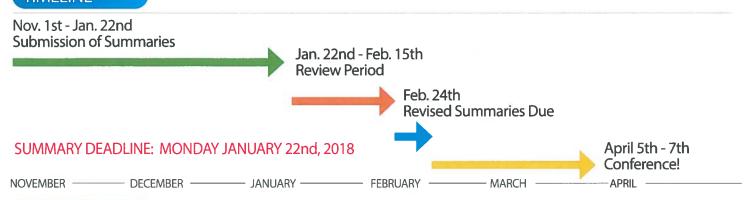




### **CALL FOR PAPERS**

NUCLEAR EQUALITY: Nuclear Equality in Policy, Energy Access, & the Engineering Community

#### TIMELINE



#### **FORMAT**

Scope of summaries include research results, internship projects, senior design posters or an interesting take on nuclear policy. Authors are REQUIRED to use the ANS Template provided on the ANS Web site. See www.ans.org/ pubs/transactions or www.ansstudentconference2018.com to find the proper paper templates.

#### **SUBMISSION**

Summaries must be submitted electronically using Adobe Acrobat (PDF) files or original Microsoft Word documents.

Find our submission portal via ANS's Electronic Paper Submission (EPSR) and Review System at http://

\*Detailed instructions on submissions may be found at www.ansstudentconference2018.com\*

On http://epsr.ans.org/ scroll to find the link to our submission portal or use QR



Scan for submission portal

2018 ANS Student Conference

http://www.ans.org/meetings/

Nuclear Criticality Safety \$, NCSD

Nuclear Installations Safety \$, NISD

Radiation Protection & Shielding \$, RPSD

"NUCLEAR EQUALITY Nuclear Equality in Policy Energy Access, & the Engineering Community"

Gainesville, FL Reitz Union

Operations and Power

Reactor Physics \$, RPD

Robotics & Remote Systems

April 5-7, 2018

#### TRACKS

Advanced Reactors

**Accelerator Applications** 

Aerospace Nuclear Science and Tech

Decomissioning & Environ. Sciences **Detection and Measurement** 

Biology and Medicine \$, BMD

Fuel Cycle & Waste Management \$, FCWMD

Fusion Energy & Plasmas \$, \*FED

Human Factor, Instrumentation & Controls \$, HFICD

Isotopes and Radiation \$, IRD

Materials Science & Technology \$, MSTD

Mathematics and Computation

Thermal Hydraulics & Fluids Special Session: Nuclear Policy \$, UF

\$ = Cash prize available for best paper or presentation. Up to \$250 per award! Sponsored by professional ANS divisions and the conference.

★= Additional funding given to winner to present paper at next ANS Winter Meeting.

Additional information about ANS professional divisions may be found at: http://www.ans.org/const/divisions/

#### **OFFICIALS**

Hosted by:

Nuclear Nonproliferation

Pat Moo

pat@ansstudentconference2018.com

Zander Mausolff

Technical Program Chair zander@ansstudentconference2018.com Rae Bruenderman

Logistics Chair

rae@ansstudentconference2018.com







General Program Chair



#### American Nuclear Society Nuclear Criticality Safety Division Program Committee Agenda (Version 3)

2017 Winter Meeting
Washington, DC – Marriott Wardman Park; Washington 3
Sunday 29th October
2:00 – 3:00 pm
Chair: Theresa Cutler

- 1. Welcome, Sign in Sheet
- 2. Administrative Aspects
  - a. Confirmation of Current Program Committee Membership
     Chair: Theresa Cutler
     Members Division Chair (Deborah Hill); Division Vice-Chair (Kevin Reynolds); Immediate Past Division Chair
     (John Miller); Katherin Goluoglu; Peter Angelo; John Bess; Jerry Hicks; Brad Rearden; Margaret Marshall;
     Kristan Wessels; Catherine Percher; Natasha Glazener; Zachary Weems; Vladimir Sobes; Larry Berg; Forrest
     Shriver; Kelsey Amundson; Luiz Leal
  - b. Paper Reviewers
- 3. Summarize Details for 2017 ANS Winter Meeting (Washington, DC; 29th October 2nd November 2017)
- 4. Finalize Details for 2018 ANS Annual Meeting (Philadelphia, PA; 17<sup>th</sup> 21<sup>st</sup> June 2018)
- 5. Develop Sessions for 2018 ANS Winter Meeting (Orlando, FL; 11<sup>th</sup> 15<sup>th</sup> November 2018)
  - a. Address high priority ideas from Education Committee Meeting
  - b. Discuss Membership Activity for next year
- 6. Any Other Business
  - a. Attendance Sheets
  - b. Best Paper
  - c. 1 Year and 5 Year Goals
  - d. Program Committee Charter



#### American Nuclear Society Nuclear Criticality Safety Division Program Committee Minutes

2017 Winter Meeting
Washington, DC – Marriott Wardman Park; Washington 3
Sunday 29<sup>th</sup> October
2:00 – 3:00 pm
Chair: Theresa Cutler

1. Welcome, Sign in Sheet

#### 2. Administrative Aspects

a. Confirmation of Current Program Committee Membership

Chair: Theresa Cutler

<u>Members</u> – Division Chair (Deborah Hill); Division Vice-Chair (Kevin Reynolds); Immediate Past Division Chair (John Miller); Katherin Goluoglu; Peter Angelo; John Bess; Jerry Hicks; Brad Rearden; Margaret Marshall; Kristan Wessels; Catherine Percher; Natasha Glazener; Zachary Weems; Vladimir Sobes; Larry Berg; Forrest Shriver; Kelsey Amundson; Luiz Leal

- b. <u>Paper Reviewers-</u> Thanks to all paper reviewers. People willing to be paper reviewers should indicate their intent on the sign-up sheet for the program committee.
- 3. Summarize Details for 2017 ANS Winter Meeting (Washington, DC; 29<sup>th</sup> October 2<sup>nd</sup> November 2017)
  - a. Went over NCSD sessions for this meeting, finalized session chairs
  - b. T. Cutler will have presenter agreements, background slide, extra NCSD postcards, including panel sessions and will put up slide about NCSD. D. Hill will present at the beginning of each session about NCSD.
  - c. J. Hicks: Kudos to T.Cutler for putting 9 sessions together for this meeting
- 4. Finalize Details for 2018 ANS Annual Meeting (Philadelphia, PA; 17<sup>th</sup> 21<sup>st</sup> June 2018)
  - a. Went over NCSD sessions for next meeting to determine session chairs and confirm status of all planned sessions
- 5. Develop Sessions for 2018 ANS Winter Meeting (Orlando, FL; 11<sup>th</sup> 15<sup>th</sup> November 2018)
  - a. Four routine annual sessions
  - b. ENDF-B/VIII Evaluation Mike Zerkle postponed this from Annual 2018; volunteered to chair since he is organizer
  - c. Sharing of Good Industry Practices considered as a possibility/ backup, but enough sessions suggested, so not necessary
  - d. Advanced Session on Impact of Chemistry for NCS Evaluations- possible ICNC presentation? **ACTION** for D. Hill to discuss with T. Ivanova
    - i. D.Hill- Original session was difficult to put together
  - e. Technical communication- J. Hicks suggested, had to qualify on technical communication as a federal employee, potentially better as a workshop
  - f. Panel on Impacts to Criticality Safety from Recent Revision of DOE-STD-3007. J. Miller, K. Kimball and Andy Prichard to co-organize
  - g. New code development for criticality safety contributed paper session, V. Sobes and L. Leal to organize
- 6. Address High Priority ideas from Education Committee Meeting
  - a. Theresa and Alyse need to discuss potential sessions at Student Conference, possible future panel sessions

- 7. Discuss membership activity for next year
  - a. M. Gorham- want to see how current activity goes. Might want to incorporate senior members talking to junior members

#### 8. Any Other Business

- a. Attendance Sheets- make sure attendees sign in as it affects the size of our future rooms
- b. Best Paper- be sure to fill out the best paper forms. H&A Committee led by T. Henson have revised the criteria and would like feedback from NCSD members
- c. 1 Year and 5 Year Goals
  - i. Start using collaborate more, but probably too difficult to do paper reviews via collaborate. Collaborate does work on cellphones.
  - ii. Add list of previous sessions on website, will be done soon
  - iii. Paper reviewer involvement is very good, more people involved in coming up with session ideas
  - iv. Want guidance on tutorials, workshops, and panels
    - 1. C. Percher- ANS might have something to start from, perhaps a history of panels and workshops given at previous ANS meetings
- d. Program Committee Charter
  - i. Working on the charter keeps getting postponed, but it does need work. Updating the Program Committee Handbook is a big goal.
- e. Looking for a new Vice-Chair
  - i. Vlad Sobes volunteered

# NCSD Session Chairs and Alternate Chairs for 2017 ANS Winter Meeting Washington, DC

NCSD Sponsor – "Past, Present and Future Validation Methods in International Criticality Safety  Assessment"- Panel						
Monday 1:00 P.M.; Delaware B						
Session Organizer(s)	Chair Alternate Chair					
Tatiana Ivanova (OECD NEA)	Tatiana Ivanova (OECD NEA) Theresa Cutler (LANL)					
NCSD Co-Sponsor "Critical and Subcritical Experiments" **						
Tuesday 8:00 A.M.; Virginia B						
Session Organizer(s)	Chair Alternate Chair					
Jesson Hutchinson (LANL)	William Myers (LANL)	Rian Bahran (LANL)				
NCSD Sponsor - "Recent Nuclear Criticality Safety Program Technical Accomplishments"						
	Tuesday 1:00 P.M.; Delaware B					
Session Organizer(s)	Chair	Alternate Chair				
Lori Scott (NCSP)	Doug Bowen (ORNL)	*				
NCSD Sponsor "Da	ta, Analysis and Operations in Nuclear	Criticality Safety—I**				
	Wednesday 8:00 A.M.; Delaware B					
Session Organizer(s)	Chair	Alternate Chair				
Theresa Cutler (LANL)	Larry Berg (DOE) And In	-				
NCSD Sponsor - "Current Spent Fuel Pool Nuclear Criticality Safety Issues for NRC Licensees"-Panel						
Wednesday 1:00 P.M.; Delaware B						
Session Organizer(s)	Chair	Alternate Chair				
Alyse Scurlock (Duke Energy)	Alyse Scurlock (Duke Energy)	Theresa Cutler (LANL)				
NCSD Sponsor - "Membership Challenge Activity Debrief and Solution Discussion"-Panel						
Wednesday 3:05 P.M.; Delaware B						
Session Organizer(s)	Co-Chair	Co-Chair				
Mackenzie Gorham (DOE)	Mackenzie Gorham (DOE)	John Miller (SNL)				
NCSD Sponsor - "Data, Analysis, and Operations for Nuclear Criticality Safety - II" **						
	Wednesday 4:30 P.M.; Delaware B					
Session Organizer(s)	Chair	Alternate Chair				
Theresa Cutler (LANL)	Kristin Smith (UF)	Brittany Williamson (SRNL)				
NCSD Sponsor - "AN	NCSD Sponsor - "ANS-8 Standards Process, Current Revisions, and Connections to					
Wider Standards Organizations"-Panel						
	Thursday 8:00 A.M.; Delaware B					
Session Organizer(s)	Chair	Alternate Chair				
Doug Bowen (ORNL)	Doug Bowen (ORNL)	Larry Wetzel (BWXT)				
N	CSD Sponsor – "ANS-8 Standards For	um"				
Thursday 9:35 A.M.; Delaware B						
Session Organizer(s)	Chair	Alternate Chair				
Doug Bowen (ORNL)	Doug Bowen (ORNL)	Larry Wetzel (BWXT)				

<sup>\*\*</sup> sessions that will be included in the Best Paper Award Voting

#### NCSD Session Chairs and Co-Chairs for 2018 ANS Annual Meeting Philadelphia, PA

The 2018 ANS Annual Meeting will be held from 17th -21st June 2018, and the Call for Papers for the meeting is available on the ANS Website. The associated deadlines are:

➤ Submission of Summaries – 12th January 2018 {Normally extended by approx. 3-4 weeks}

Author Notification of Acceptance – 23<sup>rd</sup> February 2018

➤ Revised Summaries Due – 16th March 2018

#### Section 12a. Session Title: "ANS-8 Standards Forum"

Session Type: Discussion

Session Organizer: Doug Bowen, ORNL

Session Chair: Doug Bowen Alternate Chair: Larry Wetzel Bowendg@ornl.gov

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 12c. Session Title: "Criticality Accident Alarm System: Issues and Testing"

Session Type: Contributed Papers

Session Organizer: Catherine Percher, LLNL

Reynolds, K

Session Chair:

Alternate Chair:

Percher 1@linl.gov

Summary: This contributed paper session will focus on Criticality Accident Alarm Systems (CAAS) including testing, maintaining compliance and operability with aging systems, alarm system coverage area determinations, and impacts of changing consensus standards.

#### Section 12e. Session Title: "ANS 8.10 Criteria for Nuclear Criticality Safety Controls in operations with Shielding and Confinement. Uses and Purposes"

Session Type: Panel

Session Organizer: Andrew Prichard, PNNL

Session Chair:

Hicks, J

Alternate Chair:

Andrew.prichard@pnnl.gov

Summary: The panel will discuss the value of using ANSI/ANS-8.10-2015, Criteria for Nuclear Criticality Safety Controls in operations with Shielding and Confinement. The panel will include discussion of the risks, benefits, and concerns of using this standard in different facilities.

### <u>Section 12f. Session Title: "Sharing of Good Industry Practices and/or Lessons Learned in Nuclear Criticality Safety"</u>

Session Type: Panel

Session Organizer: Deborah Hill, UK National Nuclear Labs

Deborah.a.hill@nnl.co.uk

Session Chair: Buysen, J

Alternate Chair:

<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 specific good practices and/or lessons learned at their site, following which an audience discussion will be initiated on alternative good practices and experiences in these areas.

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

Session Type: Contributed Papers

Session Organizer: Theresa Cutler, LANL

Session Chair(s): Arielle Miller,

Alternate Chair(s): Briffang Williamson

Toutler@lanl.gov
John Bess, Margaret Marshell

<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 2018 ANS Winter Meeting Orlando, FL

#### **ROUTINE ANNUAL SESSIONS**

- 1. Data, Analysis and Operations in Nuclear Criticality Safety
- 2. ANS 8 Standards Forum
- 3. Recent Nuclear Criticality Safety Program Technical Accomplishments
- 4. Critical and Subcritical Experiments (led by NNPD)

#### SUGGESTIONS FROM NCSD PROGRAM / EDUCATION COMMITTEE

- 5. Sharing of Good Industry Practices and/or Lessons Learned in Nuclear Criticality Safety [DAH]
  - This is a standing item at the Annual Meeting, but there is also an option to include it at Winter Meeting.
- 6. ENDF-B/VIII Evaluation and Validation [MZ]

Postponed from 2018 Annual Meeting

- 7. NCS Aspects of In-Line Solution Components [KG]
- 8. Criticality Safety Officer Programs [CH]
- 9. Advanced Session on Impact of Chemistry on Nuclear Criticality Safety Evaluations? [DAH]
- 10. "Technical Communication" Session? [JH] {Potential Co-Sponsor YMG?}
- 11. "Day in the Life of ...." [ZW] {Potential Co-Sponsor YMG?}

#### **OTHER SUGGESTIONS FROM PREVIOUS MEETINGS**

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

#### NCSD Paper Reviewers for 2017 Winter Meeting

Katherin Goluoglu

Arielle Miller

Doug Bowen

Catherine Percher

John Miller

Tom McLaughlin

Larry Berg

Deb Hill

Tracy Stover

Kristan Wessels

Tony Nelson

Derek Putley

Jim Baker

John Bess

Tamara Baldwin

Andy Prichard

Dale Lancaster

Richard Taylor

Jim Mormon

Jerry Hicks

Bob Wilson

Peter Angelo

Margaret Marshall

Larry Wetzel

Theresa Cutler

Mike Dunn

#### NCSD Paper Reviewers for NCSD Topical Meeting

Kaushik Baneriee

John Bess

Doug Bowen

Theresa Cutler

Sedat Goluoglu

Deb Hill

Jesson Hutchinson

Margaret Marshall

William Marshall

Thomas Miller

Catherine Percher

Kevin Reynolds

Chris Tripp

Bob Wilson

Larry Wetzel

Mike Zerkle

IVIIKC ZCIKI

Larry Berg

David Erickson

Julie Ezold

Ian Hill

John Scaglione

Thank you for all of your amazing support!!!

NCSD couldn't be successful without all of you.

#### **AMERICAN NUCLEAR SOCIETY**



#### **Nuclear Criticality Safety Division**

Education Committee Meeting Sunday 29<sup>th</sup> October 2017 1:00pm – 2:00pm Washington 3 Marriott Wardman Park Washington DC

- 1. Call to Order
- 2. Old Business
  - a. Status of NCSD survey- K. Gouluglu put together an education committee survey a few years ago, put it out for response, not much of a response from industry
    - a. Re-issue the survey? (A.Scurlock has ACTION)
    - b. D. Hill-need to streamline survey
    - c. Connect with universities
    - d. Ask about PE credit on the survey
  - b. NCSD Education Committee Initiatives
  - i. High Priority
    - Educational workshop or tutorial once a year-teaching NCSD basics (example: standards session at upcoming Winter Meeting)
      - 1. J. Miller-Possible co-sponsoring with YMG
      - N. Thompson- Student meetings often have workshops at the beginningpotentially pay for instructors via NCSD budget
      - 3. K. Kimball Hand calculation session
      - 4. K. Kimball workshop based on White papers
      - 5. D. Hill-ADay in the Life of Crit Engineer
      - 6. D. Hill-Presentations of overview of criticality safety at specific sites
      - 7. A. Scurlock-workshop on where to find references
      - 8. Could also create workshop for local sections
      - 9. J. Bunsen volunteers to help put together workshops
      - 10. A. Scurlock follow up on ideas listed here (ACTION)
    - ii. Single reference living bibliography
      - 1. ANS paper references
      - 2. A. Scurlock-pointer to NCSP website for references
      - 3. D. Hill-J. Baker and F. Winstanley are interested, ask them to propose what they want to do (ACTION)
    - iii. Work with membership to reach out to new generation of engineers at sites
      - 1. Work with membership committee (A.Scurlock has ACTION)
      - 2. D. Hill-understand exactly what our outreach should say
    - iv. Add a "new members" section to the NCSD website
      - 1. Add webinar once complete
      - 2. D. Hill volunteers for this (ACTION)
      - 3. Put items from 2.i.ii. in this section on website
    - v. Work with YMG to produce a "What does NCSD do?" type of webinar-
      - 1. A. Scurlock reached out to YMG webinar team will follow up (ACTION)
      - 2. Potential video?
      - 3. K. Reynolds will spearhead (ACTION)
    - vi. Before each NCSD sponsored session, chairs should provide a brief overview of NCSD
      - 1. Do this in conjunction with new slide membership put together to put on screen before each session
  - ii. Low Priority
    - i. White papers status/updates

- 1. Not much traction with white papers-reviews on a few papers has tended to bog down
- 2. Possible streamlining of the white paper process
- 3. Put list of current working papers on the ANS website (Alyse has **ACTION**)
- ii. Repeating workshops of years past
  - 1. B.Wilson-thought the Hazards Analysis workshop was useful
  - 2. T. Cutler- ANS website has the past decade workshops- ACTION for T. Cutler
- 3. New business
  - i. N. Zhang- Education committee charter- A. Scurlock will look into charter (ACTION)
  - ii. M. Gorham-Young members competition, we need mentors
  - iii. T. Cutler Reminder that Education and Program Committees need to work together to plan sessions to meet the broader needs
- 4. Adjourn



#### Please PRINT in

Name	E-mail
Jerry Hicks	Jerryhicks @ aol, com
Andrew W Prichard	Vandrew, prichard@pnn1.gov
Cotherine Percher	percher 1 @ LLNL. gov
KEIN REYNOWS	KEVIN. REYNOUS @ CNS. DOE . GOV
DEBORAH HILL	deborah. a. hill @ nnlo co. uk
Robert Wilson	robert. vilson Demobo. doe. gov
JAMES MORMAN	TAMORMANE ANL. GOV
David Ericker	DG. Erickson @ blueheron. US
Janes Bunson	Jbynsen @ LANL. gov
Chase Juneau	june chose isu. edu
MargaretMarshall	margaret. marshall Cint.gov
Roger Harsh harger	harshbrk@id.doe.gov
Rachel Bruenderman	rachelsuzan@ufi.edu
Kristin Smith	Kristinnsmith @ ufledu
Chaval Fatel	dhavalkpatel @ufl.edu
Forrest Brown	fbrown plantagov
Chris Haught	chis. haughte ens. doe. gov
Spencer Jordan	Spencer, jordan@ cns. doe.gov
Kevin Kimball	Kevin. Kimball @ cns. obe. gov
KEN ADKINS	Ken, adkins & fbports.com
John Bess	John Bes @ inl. go/ lend leal & Ersn fr britany, williamson @ srs. gov
Luiz Leal	leiz leal o Ersn. fr
Brittony Williamson	britany, williamson @ srs. gov
)	2



#### **Please PRINT in**

Name	E-mail
Vadinir Sebes	sabesvoorn, gov
Kyte Vaughn	Rylecu P, ufl. edu
Marvin Barnett	marvin, barnett @ srs, gov
Nicholas Thompson	thompa48 gmail, com
Theresa Cutter	Miller = O SANDIA, GOV
JOHN MILLER	Miller = O SANDIA, GOV
Jason M= Call	jason j mccalla ens doe gar lasonina
Cesar Pozas	CPOZasy/ EU+1.edu
Ning Zhang	Ming Zhang Clauliga
Mand Act	manitshahd @ gmail-com
Kelsey Amundson Ellen Saylor	Kanundson Sagmail.com
Ellen Saylor	Saylorein@ornl.gov
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1990 8 8 8 18 18 18	