

EXECUTIVE COMMITTEE MEETING MINUTES

American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
Hyatt Regency Minneapolis, Minneapolis, MN
4:30 – 6:00 PM, Sunday, June 9, 2019
Location: Lake Bemidji

Attendees:

Yassin Hassan (EC Member), Fan-Bill Cheung (EC Member), Bao-Wen Yang (EC Member), Zhibin Chen, Brian Woods, Lane Carasik (EC Member), Igor Bolotnov (EC Member), Rui Hu, Subash Sharma, Chul-Hwa Song (Vice Chair), Dave Pointer (Chair), Dillon Shaver (EC Member), Matt Zimmer, Jun Wang, Guillaume Mignot, Xiaodong Sun (EC Member), Kurshad Muftuoglu (EC Member), Elia Merzari (Treasurer), Wade Marcum (Secretary).

A scanned copy of the list of attendees is provided in APPENDIX A

1. **Opening** (Pointer)

Dr. Dave Pointer called the meeting to order at 4:30 pm.

2. **Approval of Meeting Agenda** (All)

MOTION: to approve agenda (Elia Merzari)

SECOND: (Xiaodong Sun)

VOTE: No opposed

MOTION APPROVED

3. **Approval of Minutes** from 2018 Winter Meeting (All)

MOTION: to approve minutes (Elia Merzari)

SECOND: (Xiaodong Sun)

VOTE: No opposed

MOTION APPROVED

4. **Remarks from ANS Executive Committee** (Pointer)

President John Kelly provided an update to the division as both the president, and the board liaison. President Kelly acknowledged that he's following up with some of the outcomes from the possible changes come from the divisions. He and the board are looking for input from the divisions and

committees through direction and implementation on ways of improve upon outcomes for members which streamlining the fiscal state. Requests that the divisions to make use of their respective board liaisons. President Kelly talked to the local sections who were worried about revenue sharing because of the connection related to the revenue and volunteer effort to the local sections themselves. The rhetoric question that was posed was “How do we give motives to volunteers to continue to do this should we move to this shared budget model?”.

Dr. Dave Pointer provided a discussion around his motives for voting to pass the conference revenue redistribution that is being implemented across The Society. At present the spend-level is 10M\$/yr, and revenue is 8M\$/yr. Dr. Pointer stated that in five years the ANS would spend down its unrestricted funds along with Division funds to the point that it wouldn’t be solvent if changes aren’t made.

Dr. Dave Pointer and the members of the committee thanked John from his presence.

5. Action Items from 2018 Winter Meeting

- a. **Draft proposal that considers the limit on packages for the TAA to be resubmitted and coordinate this effort with the H&A Committee (Lee)**

Dr. Dave Pointer acknowledged that there has been activity on this action item. Prof. Fan-Bill Cheung provided an update on the status of the TAA. The committee has converged on the following motion:

“A nomination for TAA rejected for the first time may be resubmitted for re-evaluation within two years from the original submission date. Nominators should update the nomination package before it is resubmitted for re-evaluation. If the nomination for re-evaluation is rejected the second time, a new nomination may not be submitted for evaluation again in less than five years from the resubmission date”

MOTION: Refer to quote above for motion (subcommittee)

SECOND: Not needed

VOTE: No opposed

MOTION APPROVED

ACTION: H&A Committee to include language on all TAA nomination packages which are not awarded on the basis for lack of award.

- b. **Nominate NURETH Fellows for NURETH-18 (H&A Committee)**

Thirty fellows have been recognized as NURETH Fellows at previous NURETH meetings. Two recommendations have been put forth by the H&A committee to be recognized at NURETH-18 to take place in Portland Oregon from August 18-23, 2019. These individuals are Dr. Bao-Wen Yang, Dr. Xiaodong Sun.

Dave pointer asked for the recommendations be confirmed by all members of the EC with a nod. All members nod to confirm the recommendations.

Virginia Common Wealth University presented and thanked the division for the 500\$ support for the student conference in 2019.

North Carolina State University provided an introduction for their conference organizational efforts. A summary of their conference can be found in the APPENDIX C.

6. Action Items from Email Discussion Prior to the 2019 Annual Meeting

a. Endorsement of NURETH-19 Selection [motion from CSC] (Pointer/Luxat)

MOTION: to endorse the selection of NURETH-19 from SCK in Brussels Belgium (conference selection committee)

SECOND: (NA)

VOTE: No opposed

MOTION APPROVED

7. Report from Professional Divisions Workshop (Pointer)

Dr. Dave Pointer acknowledged the content from this section has already been discussed under item number 4 above ("Remarks from ANS Executive Committee").

8. Report from President's Meeting with Division Chairs (Pointer)

Dr. Dave Pointer acknowledged the content from this section has already been discussed under item number 4 above ("Remarks from ANS Executive Committee").

9. Finance

a. Treasurer's Report (Merzari)

Dr. Elia Merzari stated to the members of the Executive Committee that a new scholarship account was created, for the Lawrence Hochrieter Scholarship award.

Dr. Merzari stated that Investment loss was counted in the awards account (found in the treasure report in Appendix D) based on stock market changes.

i. **Prepare Service Award Proposal (Merzari)**

ACTION: Dr. Elia Merzari had an action item that he requested carry forward with respect to the identification of a 1000\$ service award which requires a 20k\$ base to create and to better understand the revenue outcomes from NURETH-18.

ii. **Develop 2020 Budget Before Next Meeting (Merzari)**

Budget proposed for next year which is effectively unchanged from this year, with only a few exceptions and can be found in appendix D.

MOTION: to approve (Dillon Shaver)

SECOND: (Xiaodong Sun)

VOTE: no opposed

MOTION APPROVED

b. **ANS Meeting Profit Sharing (Merzari)**

A discussion was already had at the PC and referral can be made to the program committee meeting.

10. Program Committee Report

a. **2019 ANS Annual Meeting Program in Minneapolis (Merzari)**

Refer to PC minutes

b. **NURETH-18 Report (Woods/Marcum)**

Refer to PC minutes

c. **ATH'20 Report (Merzari)**

Refer to PC minutes

d. **Motions from the PC Meeting (Merzari)**

MOTION: Carried forward with vote and approval from the PC for the Executive Committee to put together a special committee to celebrate NURETH's 40th anniversary at the ANS winter meeting in 2020.

DISCUSSION: No Discussion

VOTE: No opposed

MOTION APPROVED

ACTION: Nomination Committee to put together a subcommittee on a special event to support NURETH's 40th anniversary.

MOTION: Carried forward with vote and approval from the PC for the Executive Committee to allow the conference screening committee to consider bids for NURETH-20 from multiple regions.

DISCUSSION: No Discussion

VOTE: no opposed

MOTION APPROVED

11. Membership Committee Report (Song)

Refer to APPENDIX E

12. Division Website

- a. **Status Report** (Shaver)
- b. **Search for New Webmaster** (Pointer)

Dr. Shaver reported that the website is up to date and reiterate the need to search for a new webmaster. Both Dr. Shaver and Dr. Pointer reiterated that candidates have expressed interest in the position and a nomination will be made soon.

13. Honors and Awards Committee Report (Sun)

Dr. Sun reported on H&A activities on behalf of Dr. Lee. Dr. Sun mentioned that the selection of the NURETH fellows was conducted (see item 5) and a winner was selected for the "Excellence in Review" award.

14. Nomination Committee Report (Muftuoglu)

Refer to APPENDIX F

15. New Business

- a. **Actions from Professional Divisions Workshop** (Pointer)
- b. **Actions from President's Meeting with Division Chairs** (Pointer)

Nothing to Report.

MOTION TO ADJOURN

DISCUSSION: No Discussion

VOTE: No opposed

MOTION APPROVED

APPENDIX A
Executive Committee Meeting List of Attendees

LIST OF ATTENDEES

American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
Hyatt Regency Minneapolis
4:30 – 6:00 PM, Sunday June 9, 2019

Name	Organization	Email
Yassin Hassan	Texas A&M Univ	y-hassan@tamu.edu
FAN-BILL CHEUNG	PSU	FXCF@psu.edu
BIAOWEN YANG	DE&D / KITU	bwyd@deltaenergygroup.com
Zhibin Chen	ZNBS	zhibin.chen@invest.cas.cn
Brian Woods	OREGON STATE	brian.woods@oregonstate.edu
LANE CARASIK	USNC / VCU	Lane.Carasik@gmail.com
Igor Bolotnov	NCSU	iboloth@ncsu.edu
Rui Hu	ANL	rhu@anl.gov
SUBASH SHARMA	PURDUE UNIVERSITY	sharma55@purdue.edu
Chieh-Hwa SONG	KAERZ	chsong@kaeri.re.kr
DAVE POINTER	ORNL	pointerwd@ornl.gov
Dillon Shaver	ANL	dshaver@anl.gov
Matt Zimmer	NCSU	mzimmer@ncsu.edu
Jun Wang	UW-Madison	jwang564@wisc.edu
Guillaume Mignot	OREGON STATE UNIVERSITY	guillaume.mignot@oregonstate.edu
Xiaodong Sun	Univ. of Michigan	xdsun@umich.edu
Kurshad Muftuoglu	Global Nuclear Fuel Americas, LLC	kurshad.muftuoglu@ge.com
ELIA MERZARI	ANL	emerzari@anl.gov
Wade Marcum	Oregon State University	wade.marcum@oregonstate.edu

APPENDIX B
EC Meeting Agenda (Proposed)

PROPOSED AGENDA

American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
Hyatt Regency Minneapolis, Minneapolis, MN
4:30 – 6:00 PM, Sunday, June 9, 2019
Location: Lake Bemidji

1. **Opening** (Pointer)
2. **Approval of Meeting Agenda** (All)
3. **Approval of Minutes** from 2018 Winter Meeting (All)
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5. **Action Items from 2018 Winter Meeting**
 - a. **Prepare Service Award Proposal** (Merzari)
 - b. **Develop 2020 Budget Before Next Meeting** (Merzari)
 - c. **Draft proposal that considers the limit on packages for the TAA to be resubmitted and coordinate this effort with the H&A Committee** (Lee)
 - d. **Nominate NURETH Fellows for NURETH-18** (H&A Committee)
6. **Action Items from Email Discussion Prior to the 2019 Annual Meeting**
 - a. **Endorsement of NURETH-18 Selection [motion from CSC]** (Pointer/Luxat)
7. **Report from Professional Divisions Workshop** (Pointer)
8. **Report from President's Meeting with Division Chairs** (Pointer)
9. **Finance**
 - a. **Treasurer's Report** (Merzari)
 - b. **ANS Meeting Profit Sharing** (Merzari)
10. **Program Committee Report**
 - a. **2019 ANS Annual Meeting Program in Minneapolis** (Merzari)
 - b. **NURETH-18 Report** (Woods/Marcum)
 - c. **ATH'20 Report** (Merzari)
 - d. **Motions from the PC Meeting** (Merzari)
11. **Membership Committee Report** (Song)
12. **Division Website**
 - a. **Status Report** (Shaver)
 - b. **Search for New Webmaster** (Pointer)
13. **Honors and Awards Committee Report** (Sun)
14. **Nomination Committee Report** (Muftuoglu)
15. **New Business**
 - a. **Actions from Professional Divisions Workshop** (Pointer)
 - b. **Actions from President's Meeting with Division Chairs** (Pointer)

APPENDIX C
ANS Student Conference Summary

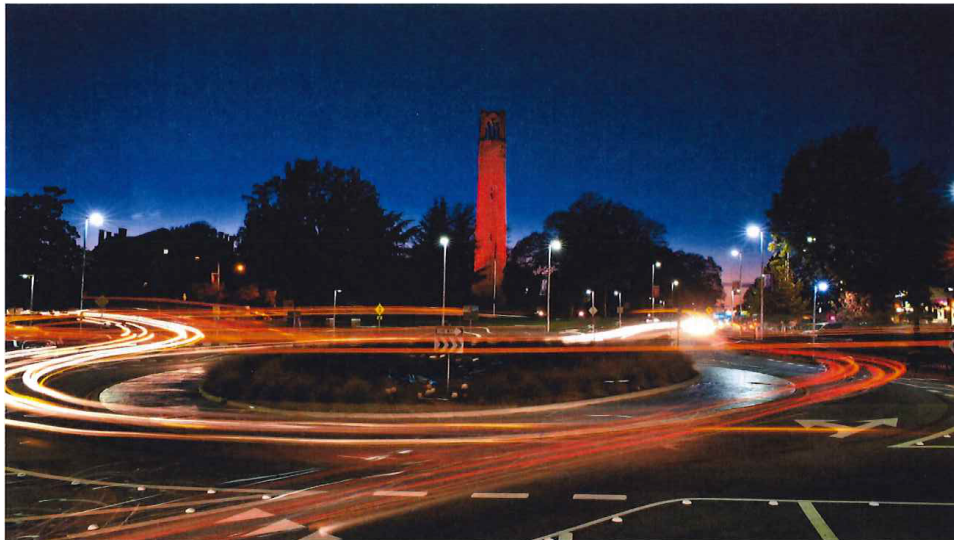
ENLIGHTEN | EMBRACE | EMPOWER



Nuclear
Engineering



American Nuclear Society Student Conference 2020



Sponsorship & Exhibition Prospectus



American Nuclear Society
North Carolina State University

April 2-4th, 2020

Raleigh Convention Center and Raleigh Marriot City Center

Raleigh, North Carolina

Greetings from the 2020 Planning Committee

Dear Prospective Sponsors and Exhibitors,

We in the Department of Nuclear Engineering and American Nuclear Society at North Carolina State University are eagerly looking forward to April 5th – 7th, 2020 when we will host students, professionals, and the future leaders in nuclear science and technology at the 2020 ANS Student Conference in Raleigh, North Carolina.

At North Carolina State University, we aim to...

... **ENLIGHTEN** ourselves about nuclear science and technology as we share and contribute to the field. This student conference brings us together to share insight from student and expert researches on theories, applications, and innovations. Nuclear science and engineering is ubiquitous in society – from energy, health, defense, non-proliferation, to name a few. In such a widespread field, this conference provides the perfect platform for experts and students to come together and learn about the various ongoing cutting-edge research in different areas of nuclear science and engineering. In the year 2020, we aim to take stock of what we know, what we still need to know, what opportunities are present, and what the future holds.

... **EMBRACE** nuclear science and technology. As we learn, we must support our industry by contributing knowledge and impacting the next frontiers. We hold tight innovations to advance science and engineering across every existing and new industry that nuclear will transform.


... **EMPOWER** ourselves and others with knowledge and enthusiasm for the impact made by nuclear technologies of the past, present, and future. We will change the “not in my backyard” mantra to one of “in my backyard” because of the benefits it provides to societies near and far.

This theme allows us to see our collective role in active learning, living, and sharing of the science engineering and technologies associated with nuclear energy, health physics, plasmas for the life sciences, nuclear non-proliferation, nuclear materials, nuclear computational science, reactor engineering, and nuclear waste management to name a few broad areas. It also arms us with information to share with students and the larger public about the benefits we receive from nuclear science and engineering. We’re nuclear engineers, we’re innovators, and we’re ambassadors for the continued use of an awesome technology in our backyards!

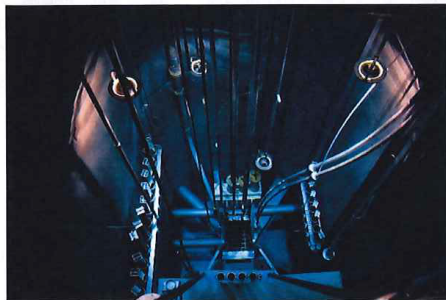
NC State’s nuclear program will be 70 years old in the year 2020; which, further emphasizes the significance of hosting the ANS Student Conference on-campus to help celebrate this milestone. We enlighten ourselves with our history, embrace our present and empower ourselves as we move ahead.

We ask you to review our sponsorship and exhibitor packages to determine if any options fit your organization's needs to Enlighten, Embrace, and Empower the next generation of nuclear science and technology leaders. We look forward to working with our sponsors and exhibitors to make the 2020 ANS Student Conference the best in the department's history!

Sincerely,


Jonathan Crozier
Undergraduate Co-Chair


Ishita Trivedi
Graduate Co-Chair



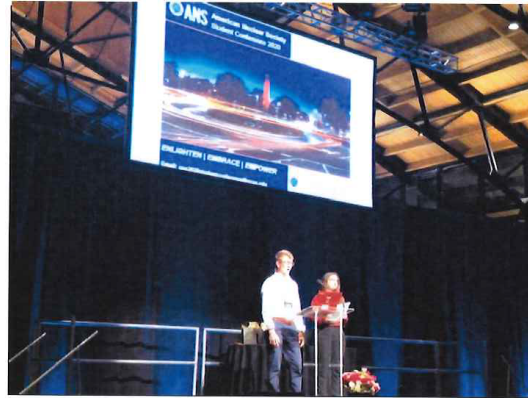
"#1 Online Master of Nuclear Engineering in 2018"
- Best College Reviews

"#3 Nuclear Engineering Graduate Program in 2019"
- US News and World Report



Benefits of Sponsorship

The ANS student is the largest single gathering of students studying fields of nuclear science and technology. The ANS student conference provides an opportunity for students to enlighten their peers by showcasing their research results. Additionally, it provides a chance for students to embrace the capabilities of nuclear science and technology through tours of nuclear reactors, fuel fabrication facilities, and more. Finally, it empowers students through invaluable professional development opportunities for students to meet and network with other students, future colleagues, and current industry professionals.



These wonderful opportunities for students attending the conference would not be possible without the generous assistance of conference sponsors. As thanks, our conference provides as much exposure and networking opportunities as possible for sponsors to interact with the best and brightest aspiring scientists and engineers. Sponsorship options are tailored towards each individual company's needs while maximizing company visibility and networking opportunities. Sponsors should pride themselves on the fact that they are supporting the next generation of scientists and engineers by helping students exchange ideas and forge friendships that last a lifetime.

For your company's or organization's investment in the future of nuclear science and technology, we offer several sponsorship options various benefits. Benefits include a booth at the conference career fair, waived registrations ad space, lunch and learn recruiting talks, and for our Platinum Leaders of the Pack, the opportunity to deliver the keynote address at one of the nightly conference dinners. For those organizations looking to participate in the conference without being a sponsor, we offer several different exhibition packages as well.



Platinum Leader of the Wolfpack
\$35,000

**Bronze Leader
of the Wolfpack**
\$10,000

**Gold Leader of the
Wolfpack** **\$20,000**

**Silver Leader of the
Wolfpack** **\$15,000**

**Registration Tote
Bags**
\$7,500

Logo on T-Shirt
\$2,500

**Conference
Notepads**
\$4,500

**Conference
Lanyards** **\$3,500**

**Companion of the
Pack** **\$2,500**

**Member of the
Pack** **\$5,000**

Red Wolf Exhibitor
\$10,000

Arctic Wolf Exhibitor
\$5,000

**Grey Wolf
Exhibitor** **\$2,500**

Sponsorship Packages

Platinum Leader of the Wolfpack (\$35,000)

- Recognition as the alpha sponsor of the conference
- Opportunity to deliver keynote address at a conference dinner of preference
- Full page advertisement in program inside front page or back cover
- Entire tech. section sponsorship
- Two full career fair booths,
- Five waived full-meeting registrations
- Award ceremony sponsorship
- One tour or social sponsorship
- Advertisement via giveaways

Gold Leader of the Wolfpack (\$20,000)

- Opportunity to deliver keynote address at a conference dinner
- Full page ad in conference program
- Entire tech. section sponsorship
- 1 Career Fair booth
- Three waived registrations
- Advertisement via giveaways
- Sponsor Recognition

Silver Leader of the Wolfpack (\$15,000)

- Half page advertisement in conference program
- Sponsorship of lunch & learn session or two tours
- 1 social or technical sponsorship
- 1 Career Fair booth
- Two waived registrations
- Advertisement via giveaways
- Sponsor Recognition

Bronze Leader of the Wolfpack (\$10,000)

- Advertisement in conf. program
- Panel or workshop sponsor
- Breakfast or tech. session sponsor
- Career Fair booth
- Two waived registrations
- Sponsor Recognition

Member of the Wolfpack (\$5,000)

- Coffee break, panel, or workshop sponsor
- Career Fair booth
- One waived registration
- Sponsor Recognition

Companion of the Wolfpack (\$2,500)

- Two tables at conference networking dinner
- Sponsor Recognition

Supporter of the Wolfpack (\$1,000)

- Sponsor Recognition

Red Wolf Exhibitor (\$10,000)

- Participation in the career fair
- Fees waived for two full conference registrations
- Table at the networking dinner
- Recognition as a conference exhibitor

Arctic Wolf Exhibitor (\$5,000)

- Participation in the career fair
- Fees waived for two career fair only registrations
- Table at the networking dinner
- Recognition as a conference exhibitor

Grey Wolf Exhibitor (\$2,500)

- Participation in the career fair
- Fees waived for one career fair only registration
- Recognition as a conference exhibitor

Add-on Packages





American Nuclear Society Student Conference 2020

SPONSOR & EXHIBITOR INTEREST FORM

Invoice Information

Company/Organization: _____

Contact Name: _____

Contact Email: _____ Phone: _____

Street/PO Address: _____

City: _____ State: _____ Zip Code: _____

Sponsorship and Exhibitor Packages

☐ Platinum Leader of the Pack (\$35,000)

- Recognition as the alpha sponsor of the conf.
- Choice dinner sponsor with keynote speaker
- Full page ad front/back cover
- Entire tech. section sponsorship
- Two full career fair booths
- Award ceremony sponsorship
- One tour or social sponsorship
- Five Waived full-meeting registrations
- Advertisement via giveaways

☐ Silver Leader of the Pack (\$15,000)

- Half page advertisement in conference program
- Sponsorship of lunch & learn session or two tours
- 1 social or technical sponsorship
- Career Fair booth
- Two waived registrations
- Advertisement via giveaways
- Recognition as a sponsor

☐ Member of the Pack (\$5,000)

- Coffee break, panel, or workshop sponsorship
- Career Fair booth
- One waived registration
- Recognition as a sponsor

☐ Gold Leader of the Pack (\$20,000)

- Opportunity to deliver keynote address at a conference dinner
- Full page advertisement in conference program
- Entire technical section sponsorship
- Career Fair booth
- Three waived registrations
- Advertisement via giveaways
- Recognition as a sponsor

☐ Bronze Leader of the Pack (\$10,000)

- Advertisement in conference program
- Panel or workshop sponsorship
- Breakfast or technical session sponsorship
- Career Fair booth
- Two waived registrations
- Recognition as a sponsor

☐ Companion of the Pack (\$2,500)

- Two tables at conference networking dinner
- Recognition as a sponsor

☐ Supporter of the Pack (\$1,000)

- Recognition as a sponsor

☐ Red Wolf Exhibitor (\$10,000)

- Participation in the career fair
- Fees waived for two full conference registrations
- Table at the networking dinner
- Recognition as a conference exhibitor

☐ Arctic Wolf Exhibitor (\$5,000)

- Participation in the career fair
- Fees waived for two career fair only registrations
- Table at the networking dinner
- Recognition as a conference exhibitor

☐ Grey Wolf Exhibitor (\$2,500)

- Participation in the career fair
- Fees waived for one career fair only registration
- Recognition as a conference exhibitor

Please fill out form and return to Finance Chair – Cameron Maras - ans2020studentconference@ncsu.edu



American Nuclear Society
Student Conference 2020

SPONSOR & EXHIBITOR
INTEREST FORM Cont.

Add-On Packages

☐ **Registration Tote Bags (\$7,500)**

- Opportunity to sponsor tote bags for conference
- Company logo featured on bag
- Excellent exposure for brand
- Any inserts provided by organization can be included inside

☐ **Conference Notepad (\$4,500)**

- Sponsor of conference notepads included with every registration packet
- Features company logo and name

☐ **Conference Lanyards (\$3,500)**

- Full sponsorship of conference lanyards included in every registration packet
- Company logo and name featured on front

☐ **Conference T-Shirt Logo (\$2,500)**

- Advertisement of company logo and name on conference t-shirts

☐ **Registration Bag Insert (\$1,500)**

- Ability to include flyer or other piece of advertisement in registration tote bag

Please fill out form and return to Finance Chair – Cameron Maras
ans2020studentconference@ncsu.edu



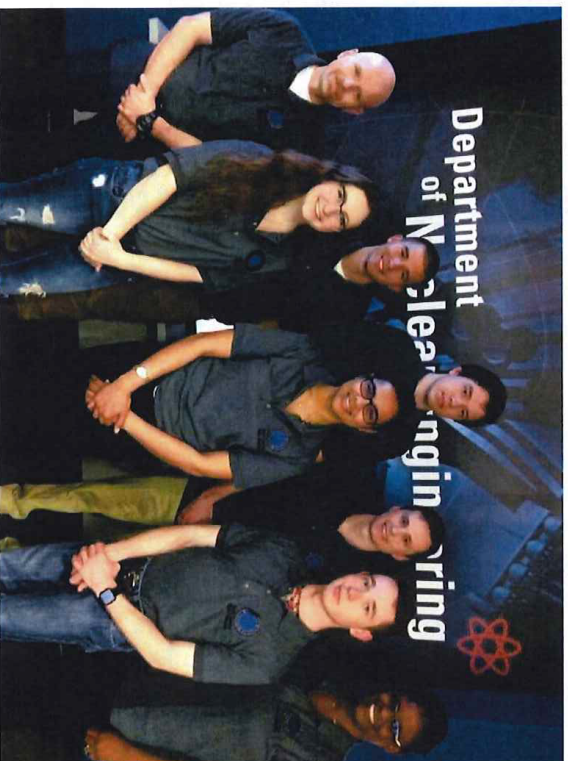
**Nuclear
Engineering**

“#1 Online Master of Nuclear Engineering in 2018”

- *Best College Reviews*

“#3 Nuclear Engineering Graduate Program in 2019”

- *US News and World Report*

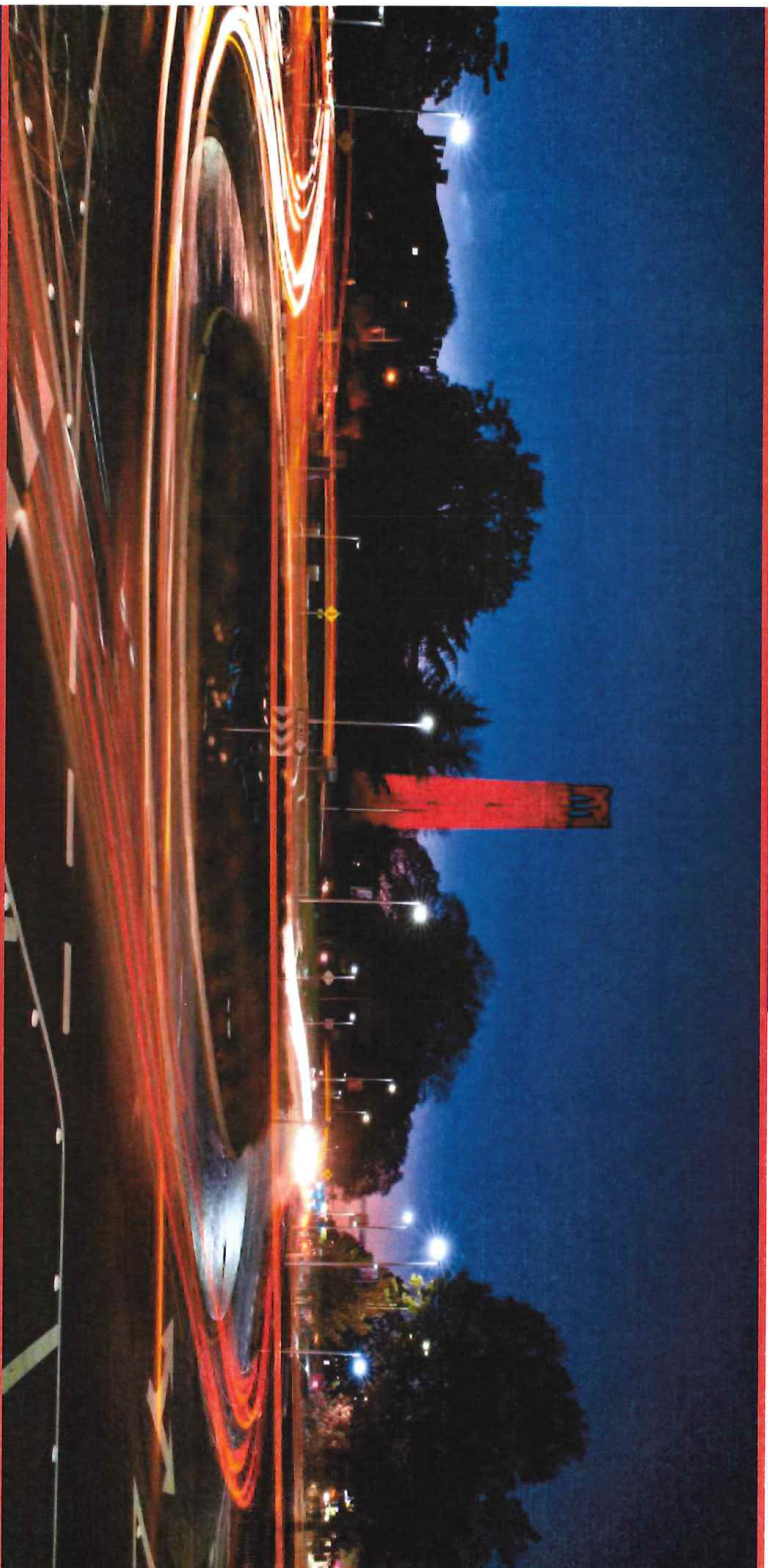




ANS

American Nuclear Society
Student Conference 2020

April 2 – 4, 2020
Raleigh, NC



ENLIGHTEN | EMBRACE | EMPOWER

Email: ans2020studentconference@ncsu.edu



American Nuclear Society
North Carolina State University

APPENDIX D

Treasurer's Report

Treasurer Report – Annual Meeting 2019

2018 has been a very healthy financial year for THD thanks to generous contributions from the NURTEH-17 organizers (\$31,180) and healthy meeting participation in ICAPP and ATH (\$12,175). We note the substantial health of the finances of the division, which has led to the desire of investing funds toward the creation of scholarships and awards.

A proposal to this end has been prepared by the treasurer and approved by the THD executive committee as well as the relevant ANS committee in November 2018. As a result, \$48,000 dollars from the general account and \$15,000 from the award account have been allocated to a new scholarship account. The Lawrence Hochreiter memorial graduate scholarship will be allocated starting in the 2020/2021 cycle.

Our division holds now three separate accounts: one general account, an award account and a scholarship account. Spending from the general account is unrestricted up to the total value of the account, as long as the transactions are approved by the division executive committee. Spending from the other accounts is restricted to ensure the long term availability of the fund to support the THD awards and scholarships. The general fund is supported by membership dues (referred as the Dues Revenue Allocation) and income from conferences hosted by the division (referred as the Meeting Revenue). The scholarship/awards accounts have primarily been funded by generous donations from the organizers of conferences supported by the division (referred as the Contribution Revenue).

The balance of the award fund account as of January 2019 is \$35,881 due to a investment loss of 6.78%. The spending limit for the restricted account is \$1,780. The balance of the scholarship account is \$63,000. The balance for the unrestricted account is \$48,720 as of March 31st 2019, not reflective of additional \$1,000 in expenses already incurred (NEED and student conference support). A summary of the current status of the division is provided in Table 1. Note that we expect a significant meeting revenue from NURETH-18 in Portland. This revenue will very be reduced (less than half) due to recent changes in ANS society-wide policies. Combined with slight lower than expected numbers for papers, the meeting revenue is in fact likely to be much lower.

The treasurer was tasked with preparing a proposal for a service award. However ANS tends to frown upon in recent years to scholarships and awards that are not fully funded. The following is stated in the requirements for award proposals:

- a. *A sound financial plan to maintain the award in perpetuity:*
 - i. *\$15,000 is necessary to fully-fund a \$500 annual monetary award component;*
 - ii. *\$20,000 is necessary to fully-fund a \$1,000 annual monetary award component; or, a \$2,000 bi-annual monetary award component;*
 - iii. *\$40,000 is necessary to fully-fund a \$2,000 annual monetary award component.*

A service award would require at least \$20000 for a \$1000 award, which would bring down the budget to ~\$28,0000 which would give THD 10 years of spending at the current rate before running out of money. Fortunately, the award balance greatly exceeds the \$20000 needed for the TAA. An addition of just \$7000 to the award fund would be sufficient to fund both the TAA and the service award at \$1000. However, the stock market has been volatile and last year ANS posted a significant loss and we may have to add additional funds to fully fund the newly established scholarship.

At this point in time the treasurer advises caution since the meeting revenue has been greatly reduced by ANS (1/2 of previous revenue). Before instituting a new award or scholarship, the treasurer recommends to wait until the picture for the revenue of NURETH-18 is clear. A revenue exceeding \$7000 should be sufficient to establish the award given the remaining balance in the award fund.

The budget proposal for 2020 is almost unchanged with regards to 2019 in terms of expenses. I propose a reduction to ANS meeting student support program contribution from \$3000 to \$2000. In fact, no meeting revenue is expected in 2020 since both ICAPP'20 and ATH'20 will be held overseas.

Elia Merzari
THD Treasurer 2018-2019

	Actual 3/31/2019	Budget 12/31/2019
Revenues		
Dues Revenue Allocation	\$335	\$2,300
Meeting Revenue		39,173
Total Revenue	335	41,473
Expenditures		
Awards, Plaques	74	1,250
Student Support	3,000	3,500
Scholarship & NEED Funding		500
Total Expenditures	3,074	5,250
Net Surplus/(Deficit)	(2,739)	36,233
 Fund Balance at 1/1/19	 51,459	 51,459
 Fund Balance at 3/31/19	 48,720	 87,682

Table 1. Budget and actual financial statement as of March 2019.

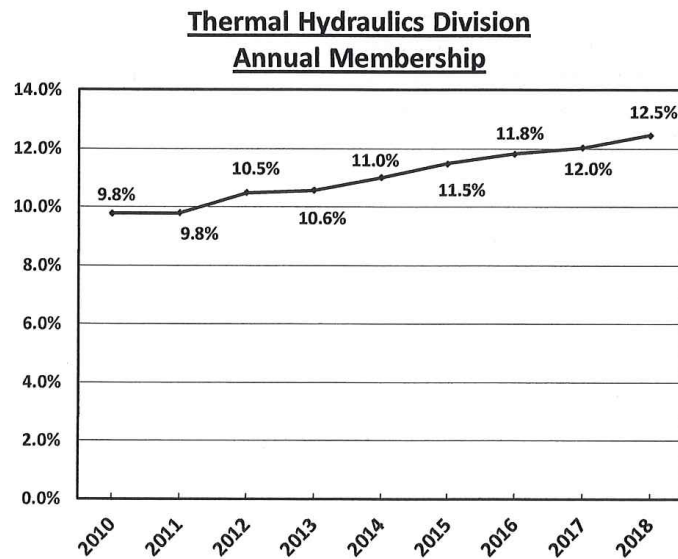
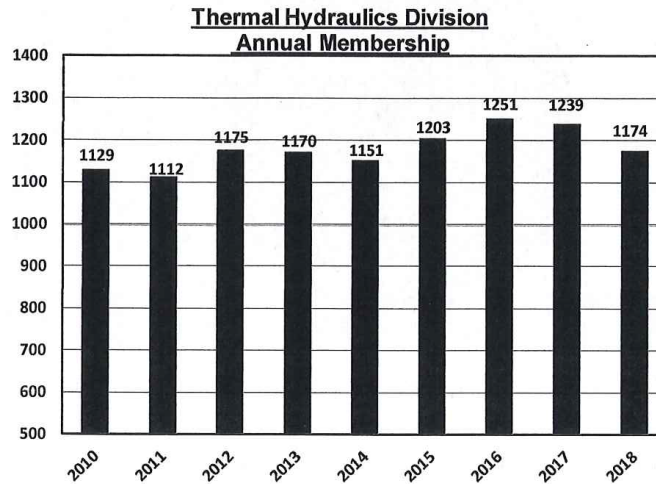
	Actual	Budget	Actual through 3/31/2019	Proposed	
Balance Forward from Previous Year	\$50,018	\$51,459	\$51,459	\$87,682	based on 2018 year end actual, likely much lower
Budget Funds					
Member Dues Allocation (\$2 full dues member, \$1 reduced dues member)	\$2,298	\$2,300	\$335	\$2,300	based on member count as of Dec 2018
Division Income	\$43,355	\$39,173			1/4 yr member count as of Dec 2018
Total Income	\$45,653	\$41,473	\$335	\$2,300	
Budget Expenses					
Newsletters, Website					
Awards & Plaques	\$1,710	\$1,250	\$74	\$1,250	
National Meeting Costs					
Topical Meeting Costs					
Division Officer Expenses					
Student Support	\$3,000	\$3,500	\$3,000	\$2,500	\$1000 annual meeting, \$1000 winter meeting, \$500 student conference
Future Activity					
Scholarship/NEED Funding	\$48,500	\$500		\$500	NEED
YMCA Support					
Other Expenses	\$2				
Total Expenses	\$53,212	\$5,250	\$3,074	\$4,250	
Net	(\$7,559)	\$38,223	(\$2,739)	(\$1,950)	
Total Year End Funds	\$51,459	\$87,682	\$48,720	\$85,732	

Table 2. Proposed budget for 2020.

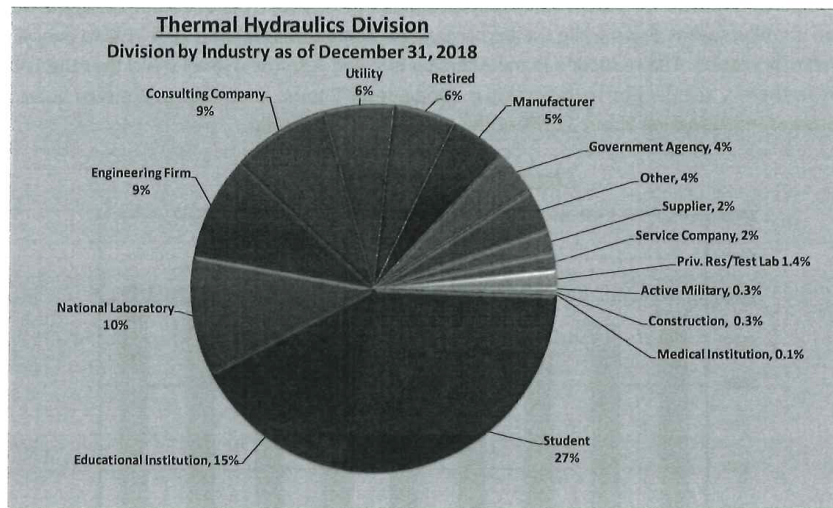
APPENDIX E
Membership Committee Report

Membership Committee Report

The membership numbers for the division is a mixed message this year. As of end of 2018, the number of division members went down while the percentage of members associated with THD to overall ANS membership increased. The reduction in membership is in line with the overall trend that the society faces. Nevertheless, the division membership is strong despite some fluctuations. We now boast around 1200 members, representing about 12.5% of the total ANS membership.



The membership is composed of quite a diverse group. Following pie chart depicts the distribution for the 2018 THD members.



The percentage of student membership grew and steadied from about 16% in 2015 to today's 27%, indicating strong future for the division.

In addition to healthy overall and student membership trends, THD members come from all aspects of the nuclear industry, representing students, universities, consulting firms, National Labs, utilities, and architects/construction firms. The THD Membership Committee (MC) cordially invites you to become a member of the Division and participate in the Division's activities. Current activities of the Division include paper review, paper presentation, organizing and chairing technical sessions, sponsoring topical meetings, serving on the various subcommittees, and supporting student conferences. If you are interested in becoming a member of THD, you can contact ANS MC directly. If you are currently a member and interested in any of the above activities, please contact any of the THD Officers.

Kurshad Muftuoglu
Global Nuclear Fuel
2018-2019 Membership Committee Chair
ANS Thermal Hydraulics Division

APPENDIX F
Nominating Committee Report

Nominating Committee Report

Current Division Officers and Executive Committee members are listed below.

Current THD Officers (June 21, 2018 – June 13, 2019)

Chair	W. David Pointer		
Vice Chair	Chul-Hwa Song		
Secretary	Wade Marcum		
Treasurer	Eliza Merzari		
Staff Liaison	Valerie Vasilievas		
Ex Officio	Kurshad Muftuoglu (Past Chair)		
Members	2019	2020	2021
	Fatih Aydogan	Yang Liu	Fan-Bill Cheung
	Lane Carasik	John c. Luxat	Yong Hoon Jeong
	Yassin Hassan	Analisa Manera	Dillon R. Shaver
	Wade R. Marcum	Hisashi Ninokata	Xiaodong Sun
	Elia Merzari	Pryush Sabharwall	Matt Zimmer
	W. David Pointer	—	—
	Chul-Hwa Song	—	—
	Bao-Wen Yang	—	—

Hans Gougar* hans.Gougar@inl.gov

* Chair of the ANS Professional Divisions Committee, ex-officio member without vote

Following new members are elected to the Executive Committee:

Vice Chair

Wade Marcum (Oregon State University)

Secretary

Elia Merzari (Argonne National Lab)

Treasurer

Bao-Wen Yang

Executive Committee (Terms ending 2022)

Fatih Aydogan

Lane B. Carasik

Yassin A. Hassan

Igor A. Bolotnov

Robert P. Martin

Committee Chairs (June 21, 2018 – June 13, 2019)

Program Committee:

Chair Elia Merzari (2019)

Vice Chair Igor Bolotnov (2019)

Nominating Committee:

Chair Kurshad Muftuoglu (2019)

Honors and Awards Committee:

Chair Si Young Lee, si.lee@srnl.doe.gov

Membership Committee:

Chair Kurshad Muftuoglu (2019)

The Nominating Committee is responsible for the nomination of THD members to leadership positions on both the Program and Executive Committees. The THD would like to encourage members interested in becoming more involved to contact one of the officers listed above. In particular, the division is usually in need of volunteers for technical meeting session organizers and paper reviewers.

Kurshad Muftuoglu

Global Nuclear Fuel

2018-2019 Membership Committee Chair

ANS Thermal Hydraulics Division