

ANS – THD Division

Executive Committee Virtual Meeting

June 5th, 2022

Attendees (EC Members): Elia Merzari (PSU), Bao Wen Yang (DEQD, Delta Energy Group), Annalisa Manera (UM/ETHZ), Igor Bolotnov (NCSU), Yassin Hassan (TAMU), Robert Martin (BWXT), Yang Liu (VTU), Lane Carasik (VCU), Hisashi Ninokata (PoliMi), Xiaodong Sun (UM), Dillon Shaver (ANL), Musa Moussaoui (OSU), Dave Pointer (ORNL), Marilyn Delgado (BWXT).

Absents: Fatih Aydogan, John Luxat, Caleb Brooks, Hyoung Kyu Cho, Maria Abramova

Attendees (Other): Subash Sharma (UML), Matt Zimmer (FMP), Izabela Gutowska (OSU), Trevor Kent Howard (OSU), Jun Liao (Westinghouse), Wade Marcum (OSU)

Proxies: Xiaodong Sun (UM) for Piyush Sabharwall (INL)

1. Opening

Dr. Merzari opened the meeting. Roll call and quorum met.

2. Approval of meeting agenda

A DRAFT agenda was provided for approval (APPENDIX A)

MOTION: Dr. Shaver moved to approve the agenda

SECOND: Dr. Pointer

NO DISCUSSION

10 votes in favor.

Agenda is APPROVED.

3. Approval of minutes from 2021 ANS Annual Meeting

The DRAFT minutes of the 2021 ANS Annual Meeting have been provided for review and approval.

MOTION: Dr. Sun motioned to approve the minutes

SECOND: Dr. Bolotnov

11 votes in favor.

Minutes are APPROVED with proposed changes.

4. Action items from 2021 ANS Winter Meeting

Action closed.

5. Chair report

a. Updates from HQ

There was no specific update from Head Quarters, other than they are moving the headquarter to Chicago. Dr. Pointer mentioned that last year was very good financially because of the stock market

performance. The same cannot be expected for this year, on the contrary a deficit in performance is expected.

b. Webinars

Three more webinars are planned, one before the winter meeting and two after the annual meeting. One of the webinars will be given by Dr. Shaver and one by Dr. Manera. These are open only to ANS members (the idea is to provide added value for membership).

There were over 200 attendees in the last two webinars. Therefore, this is an activity that should be continued. ANS has the participant lists.

These webinars are promoted by sending emails a month and one week before the webinar, respectively. They are also promoted through social media (Linkedin, Twitter).

Dr. Merzari proposed to add the organization of the webinars under the PC duties. Dr. Carasik mentioned that the recording of the past webinars are available online.

Dr. Manera proposes to have young members propose topics that are interesting to them. Dr. Carasik proposed to reach out also to people in industry for potential topics.

Dr. Yang proposed the following as action item:

- form organizing committee for webinars.

Dr. Merzari assigned the **ACTION** to Dr. Yang Baowen to provide a proposal on how to handle the webinars in the future

Dr. Merzari mentioned that the TH Division is fairly small (about 1000 members) and raised the question whether the webinars should be open to ANS members at large or only to THD members, as it is important to have a strategy about providing added value to THD members only.

ACTION: Dr. Merzari will check the list of participants of past webinars, to see how many of them belong to the THD division.

c. Discussion on Strategic Plan

Dr. Merzari mentioned that that the strategic plan has been submitted to the EC several times and that, with no comments, the current version will be taken as final. The idea is then to revise the strategic plan every year.

NO DISCUSSION

MOTION: Bob Martin moved to approve the strategic plan

SECOND: Xiaodong Sun

13 votes. MOTION PASSES

6. Treasurer's report

Dr. Bolotnov mentioned that the TH Division has currently several awards accounts, which is very positive. He then asked clarifications to the spending limit on the account depending on the returning rate. Dr. Pointer clarified that this is calculated based on the return of past 3 years.

Currently there are \$57k in the TAA account, \$91k in the Hochreiter award account, \$86k in the Esposito account and \$23.7k in Sehgal memorial award account.

For the proposed budget, the projected membership income is \$1536.

For student support there are \$2,500 available, but since there was only one in-person meeting in 2021, only \$1000 were used. Dr. Bolotnov mentioned that because of this, the budget for next year could be increased.

Dr. Merzari pointed out that rather than spend the funds on another award account, we could use them to improve our memberships.

Dr. Marcum mentioned that now that a strategic plan has been drafted, it should be looked at how to allocate resources to support the implementation of the strategic plan.

Dr. Pointer suggested that it might be worthwhile to start a fundraising to endow best paper awards and graduate scholarships, so that there is a separate budget for these items, rather than having to allocate portions from the operating budget.

ACTION item for Dr. Bajorek: put together a proposal and a plan on how to achieve what Dr. Pointer has suggested.

Dr. Carasik asked whether an undergraduate scholarship could also be added. Dr. Pointer however reminded that it was decided to prioritize the graduate scholarships, given that there is already a number of ANS UG scholarships available.

After a brief discussion, an additional **ACTION** item was defined for Dr. Bajorek, to put together a proposal and a plan for an UG scholarship as well.

Dr. Bolotnov reported that there is a slight deficit for the end of the year budget.

MOTION: Dr. Bolotnov moved to approve the budget

SECOND: Dr. Yang

DISCUSSION

Dr. Sun pointed out that there will be some contributions from ANS ATH22. Dr. Merzari clarified that this will appear in the 2022 year budget. Also the NURETH donation will be in 2022. What is budgeted by ANS is the NURETH-20 (\$24,746) that should be added to 2023. The motion by Dr. Bolotnov is removed to be able to correct the budget.

MOTION: Dr. Merzari motioned to approve the budget after correction

SECOND: Dr. Pointer

11 in favor, 1 against

MOTION: Dr. Carsik proposed an amendment to increase the student scholarship from \$500 to \$100

SECOND: Dr. Shaver

Comments on amendment: NONE

Vote on the amended motion.

12 in favor

Dr. Bolotnov mentioned that in the future we could consider increase the number of awards for Esposito and Hochreiter, considering the available budget.

No further discussion.

7. Technical Program committee

Dr. Shaver reported that everything is moving forward without issues and referred to the minutes of the PC meeting for details.

Dr. Merzari thanked Dr. Bolotnov for his service as chair.

8. Membership committee report

A committee report was given by Matt Zimmer. A slight increase in membership was observed. 90% of the members are from the US. No big demographic changes from the past year have been recorded. A visible trend is a 100 members drop in April. This is caused by the fact that students register for membership in correspondence of the student conference and then drop the following year.

The least retention is observed among the 20 years old. Matt Zimmer mentioned that there was not a lot of traction among this age group for the webinars. A potential idea is to target some of the webinars toward this age group.

It was further reported that only 2 submissions were registered for the Instagram picture competition. Therefore Dr. Delgado suggested that we should assess how we advertise among our own groups, since there are many professors members of the EC committee, who could solicit more students participation.

Dr. Pointer proposed to extend the deadline and advertise more during the meeting. Dr. Merzari agreed that Dr. Delgado had a very valid point and recommended to readvertise with a strict deadline for submission (in the first announcement there was no deadline).

Based on the discussion, it was decided to extend the deadline till the end of June. The **ACTION** item for announcement and deadline was assigned to Matt Zimmer and Dr. Delgado.

Dr. Merzari mentioned also that LinkedIn is a powerful platform and that there is a need for a strategy to develop regular posts and comments. He recognized that a team is needed to take care of this.

ACTION: Matt Zimmer should put together a strategy for LinkedIn posting.

It was also recognized that we lack knowledge on the amount of THD members on LinkedIn and was suggested to launch a survey.

Dr. Merzari will add an ACTION for members to request access to the THD LinkedIn group.

Dr. Liao proposed to have a specific account for the LinkedIn ANS THD. It was however recognized that the downside of this is that only the owner of this account would be able to post.

9. Division website report

Dr. Howard reported on the progress with the division website.

He mentioned that it is important to add more content specifically targeted to students and young members, to increase younger audience, as the THD website could be overwhelming for new members. The following changes were made:

- the front page was extended with a “what is new” item, showing deadlines for conferences, timeline for events, etc.;
- recognizing that the past website was mostly targeting existing members who were very actively involved in the division, the webpage was modified to appeal to new members and give them relevant information not readily accessible on the main ANS website. The new webpage features also instructions on how new members can get more involved in the division’s activities;
- the page layout was modified, without radically changing the format of the old page, so that past members can still orient easily in the new webpage.

10. Honors and award committee

Dr. Sun reported on the honors and award committee.

2020 TAA Recipient: received by Dr. Podowski, who delivered the TAA lecture at the NURETH19 conference

2021 TAA Recipients: received by Dr. D’Auria and Dr. Chul-Hwa Song, who will deliver their lecture at the ATH22 conference.

2021 Sehgal Memorial Award: received by Dr. Merzari, who delivered his lecture at the NURETH20 conference

Nominations for the next round of awards are due on August 1, 2022.

New NURETH Fellows inducted at the NURETH-19 conference:

Awardees – Horst-Michael Prasser, Jose’ Reyes, Chul-Hwa Song

2020 THD Excellence in Review Award: nominations were made by the THD PC Chair and vice-chair.

Awardee – Robert P. Martin
Honorable Mention – Jun Wang

2022 THD Meritorious Service Award

Awardee – Kurshad Muftuoglu

The next nominations are due in March 2023.

2021 THD Best Paper Award:

Julio Pacio, Shih-Kuei Chen, Yu-Min Chen, and Neil E. Todreas, "Identification of Open Issues in the UCTD Model and Proposed Improvements for Uses in Licensing," NURETH-19

Candidate papers for the 2022 BPA will be selected by the ATH-22 Technical Program Committee.

The Honors and Award Session is scheduled on June 13, during the ATH'22 conference.

Dr. Merzari thanked Dr. Sun for the leadership with the Award Committee and pointed out that, for the first time, all awards have been assigned.

12. Scholarship committee report

Dr. Pointer referred to the submitted report. The Hochreiter and Esposito scholarships have been awarded. The committee is going to look again at the eligibility criteria, since this year there was some confusion concerning the rules.

13. Conferences Screening committee report

Dr. Cheung reported that the NURETH-21 conference is scheduled for 2025. The finalized call for proposal will be available to the TH community before the end of June 2022, with the intention to have a final selection no later than the end of January 2023.

He pointed out that countries in Middle East (Emirates, etc.) should be considered as well, when looking at Asia. He suggested that, if there is support by the EC, the NURETH-21 conference should be held outside USA and EU, recognizing that it would depend on the proposals received.

ACTION: once the call for proposal is ready, Dr.. Cheung will send it to Dr. Yang so that it can be published.

14. Nominating Committee Report

Dr. Marcum recalled that the nominating committee is responsible for voting new members for PC and EC committees.

MOTION by the nominating committee to approve the new PC composition: Dr. Bolotnov will be rolling off, and Dr. Shaver will be rolling in as chair. Dr. Gutowska will take the position as assistant chair for the PC committee, plus the updated renewals (see APPENDIX B).

Nominating committee includes Dr. Wade, Dr. Bolotnov, Dr. Merzari, Dr. Manera, and Dr. Yang.

NO DISCUSSION
12 votes in favor
MOTION PASSES.

15. Old business

No old business to discuss.

New business: Dr. Carsik mentioned a Joint Social organized by the TOFE and Diversity & Inclusion in ANS (DIA) Committee (<https://www.ans.org/meetings/am2022/calendar/event-508/>).

The event is open to all meeting attendees.

Dr. Cheung congratulated Dr. Merzari for organizing the monthly meetings and for providing such a good leadership! Dr. Yang expressed his support and wishes that all the good traditions started under Dr. Merzari will continue.

MOTION to adjourn: Dr. Yassin

SECOND: Dr. Yang

11 votes: MOTION CARRIES.

APPENDIX A

PROPOSED AGENDA

American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
ANS Annual Meeting 2022

12:00 PM US Eastern Time, Sunday, June 5th, 2022

Zoom: <https://psu.zoom.us/j/93390391539?pwd=UTJSc3crVStWTTZKWkVFYVBibXVOQT09>

Password: ANSTHD2022

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|---|------------------|
| 1. Opening | Merzari |
| 2. Approval of Meeting Agenda | All |
| 3. Approval of Minutes from 2021 ANS Winter Meeting | All |
| 4. Action Items from 2021 ANS Winter meeting | All |
| 5. Chair Report | Merzari |
| a. Updates from HQ | |
| b. Webinars | |
| c. Discussion on Strategic Plan | |
| 6. Treasurer's Report | Bolotnov |
| a. Budget for 2023 | |
| 7. Program Committee Report | |
| a. THD Sessions for 2022 ANS Winter Meeting (ATH'22 included) | Bolotnov/Pointer |
| b. THD Planning for 2023 ANS Annual Meeting | Bolotnov/Shaver |
| c. NURETH-19 Update | Roelofs |
| d. NUTHOS-13 Update | Sun/Yang |
| e. NURETH-20 Update | Bajorek |
| f. ATH'2024 Embedded Topical meeting | Bolotnov/Shaver |
| 8. Membership Committee Report | Zimmer |
| 9. Division Website Report | Howard |
| 10. Honors and Awards Committee Report | Sun/Muftuoglu |
| 11. Scholarship Committee Report | Pointer |
| 12. Conference Screening Committee Report Call for proposals – NURETH-21 | Cheung |
| 13. Nominating Committee Report | Marcum |
| 14. Old Business | All |
| 15. New Business | All |
| 16. Adjournment | Merzari |

APPENDIX B

Program Committee Nominations 2022

Officers

- Chair: Dillon Shaver (ANL) [2022-2025]
- Vice Chair: Izabela Gutowska (OSU) [2022-2025]

Due to continued service, we recommend that the Program Committee memberships of the following be renewed through 2025:

| | | |
|-----------------|-------------------|---------------|
| Steven Arndt | Yong Hoon Jeong | Chul-Hwa Song |
| Steven Bajorek | Seungjin Kim | Dillon Shaver |
| Philippe Bardet | Wade Marcum | Xiadong Sun |
| Xu Cheng | Kurshad Muftuoglu | Brian Woods |
| Fan-Bill Cheung | W. David Pointer | Ling Zou |
| Rui Hu | Jovica Riznic | |

We recommend the following be move to the advisory council for a term to expire in 2027:

| | | |
|--------------------|---------------|------------------|
| Sama Bilbao y Leon | Randall Gaunt | Shripad Revankar |
| H. Chang | Jong Kim | |
| Cesar Frepoli | Si Young Lee | |

Finally, we recommend the following be added to the Program Committee for a term expiring in 2025:

Nadish Saini