

**ANS – THD Division**  
**Executive Committee Meeting**  
**Summer Annual Meeting**  
**Las Vegas, NV**  
**June 16, 2024**

**Attendees (EC Members):**

Leadership

Chair: Annalisa Manera (Not present) – proxy to Igor Bolotnov

Vice Chair: Igor Bolotnov (+ proxies from Annalisa Manera and Maria Avramova)

Secretary: Steve Bajorek

Treasurer: Ferry Roelofs

Ex Officio: Bao-Wen Yang

Appointments

Webmaster: Trevor Kent Howard

Members with Terms:

2024

Xiaodong Sun (Not present)

Dillon Shaver

W. David Pointer (Not present)

Hyoung Kyu Cho

Musa Moussaoui (Not present) – proxy to Izabela Gutowska

2025

Yassin Hassan

Maria Avramova (Not present) – proxy to Igor Bolotnov

Jun Liao

Bob Martin

Marilyn Delgado (Not present)

2026

Fan-Bill Cheung

Chul-Hwa Song

Izabela Gutowska + proxy from Musa Moussaoui

Donna P. Guillen (Not present)

Ling Zou (Not present)

Absent: Annalisa Manera, Musa Moussaoui, Maria Avramova, Xiaodong Sun, W. David Pointer, Marilyn Delgado, Donna P. Guillen, Ling Zou

**Attendees (Other):**

*(Refer to sign-up sheets in Appendix B.)*

**1. Opening**

Dr. Bolotnov called the meeting to order. Roll call and quorum met.

**2. Approval of meeting agenda**

A DRAFT agenda (amended during the meeting) was provided for approval (APPENDIX A)

MOTION: Dr. Jun Liao moved to approve the agenda

SECOND: Dr. Dillon Shaver

NO DISCUSSION

All in favor.

Agenda is APPROVED.

**2A. Welcome by new ANS vice president/president elect:** “Hash” Hashemain attended part of the meeting and bid welcome to the THD attendees.

**3. Approval of minutes from 2023 ANS Winter EC Meeting**

The DRAFT minutes of the 2023 ANS Summer Meeting have been provided for review and approval.

MOTION: Dr. BWY moved to approve the minutes.

SECOND: Dr. Ferry

NO DISCUSSION

All in favor.

Minutes are APPROVED.

**4. ANS Certification Effort**

a. The ANS Certification program was presented by Rebecca Steinman. ANS to improve on professional development. Two-prong approach. Try to get larger target audience. Broad audience. One for early career with basics of nuclear. Individual certificate(s) for broad level of understanding. There will be two courses initiated in 2024. The first will be in October and it will be on-line presentation on the Regulatory Process (16-hour). Nuclear Essentials will be the second course to be at the WAM. The courses are introductory in nature and intended for those without degrees in Nuclear Engineering.

The next level of courses is a question for the divisions. If the Division has a webinar of interest, they are welcome to develop that into a course.

#### **5. Action items from 2023 ANS Winter meeting:**

a. Bylaws/Rules Change. Action: Send revised bylaws to the Bylaws and Rules Committee. See Chair Report.

#### **6. Chair Report**

##### **a. Updates from HQ (Igor Bolotnov for Annalisa Manera):**

Annalisa Manera reported that ANS is very pleased with number of registrations for ANS meeting (931 registered so far). Sponsoring is also in good shape.

ANS has moved to its new office and on Wednesday July 10 there will be a open-house in new headquarters in Chicago.

There has been some displeasure with the editorial quality of Nuclear News Daily (previous company).

Importance of working together and demonstrated by an issue with a facility in Nevada that was used for rocket testing. The facility was slated for demolition by DOE. People were worried that to rebuild a similar facility would cost millions of USD to restart tests for nuclear space applications. ANS wrote to the US secretary of Energy and others resulting in a pause on demolition.

Update on committees. Two main subcommittees:

- 1) On-going strategic planning process. Subcommittee working on ANS core values (board to vote on this in June)
- 2) national meeting subcommittee: historically, the performance of ANS annual meetings has not been consistently solid as the winter meetings (losses seen in past annual meetings). The subcommittee is going to propose a change in the bylaw to make the November meeting the annual meeting. In this way, there is more flexibility on what to do with the summer meeting. The June meeting will become a "Summer meeting" and we are thinking what the focus of the summer meeting would be to make it more profitable (or whether it should be even cancelled). One implication is there will be a 18-month term instead of a 12-month term in the transition period.

**b. Webinars (Delgado).** No update (Delgado not present)

**c. Bylaws/Rule Change (Bolotnov)** Nominated Elia, Bob Martin, and Xiaodong Sun to be a working group to address comments by Hans Gauger on bylaw comments.

#### **DISCUSSION**

On what to pass along to the next set of officers so things don't fall through the crack. Suggestion was that Division leaders meet periodically.

## **7. Treasurer' Report** (Dr. Roelofs):

Dr. Roelofs gave the THD financial report, noting that the division finances are in good shape. See newsletter for details.

## **8. Program Committee Report**

**a. Action Items from the 2024 Program Committee Meeting :** Dillon Shaver reported that the Program Committee report came out a couple weeks prior to the EC meeting.

**b. Update on THD Sessions for ANS 2024 Annual Meeting:** The technical program for THD here in Las Vegas will include a total of 45 summary presentations in 9 technical sessions. There are 3 panel session on the CFD and System Code Validation for HTGR Applications Leveraging HTTF Data, Enabling Thermal Hydraulics Technologies for Digital Twins and Verification, Validation, and Uncertainty Quantification of Machine Learning. The total number of papers represents an increase in papers compared to recent prior meetings.

**c. Planning for the 2025 Annual Meeting Update:** To be addressed later in 2024.

**d. Special Issues for NURETH-20:** Steve Bajorek reported that the special issues for NURETH-20 are in preparation. Nuclear Science and Engineering has approximately 10 papers under review, Nuclear Technology has approximately 28 and Nuclear Engineering and Design nearly 30. Fusion Science has one paper. Reviews for each nearly complete with several papers complete and others being revised.

**e. NUTHOS-14 Update:** Bao Wen Yang reported that NUTHOS-14 planning is nearly complete and they are in the is last phase of the review. It is expected that they should finish reviews this month. Several panels are being planned.

**f. ATH 2024 Update.** The Advances in Thermal Hydraulics (ATH 2024) conference, to be held as an embedded topical meeting at the 2024 ANS Winter Conference on November 17-21, 2024, will be held at the Renaissance Orlando at SeaWorld. This upcoming ATH has over 70 papers as of June 16.

**e. NURETH-21 Update:** The preparation of the NURETH-21 conference, under the leadership of Dr. Chul-Hwa Song, is well under way. The conference is scheduled for 2025 in Busan, Korea. More information can be found on the conference website ([www.nureth-21.org](http://www.nureth-21.org)) The NURETH-21 web site is now active according to Dr. Cho. There are 8 tracks with 75 sessions. Session leaders to be assigned soon.

**9. Membership report:** Igor Bolotnov reported that THD membership currently sits at 1064. Membership has been on an upward trend so far in 2024 and currently sits at the highest number in several years. This is an encouraging growth and we hope this upward trend continues! The split between members from the American and international members has remained about the same, but it is noted that 29 different countries are represented. Our student population has grown from 19.5% of the membership to 22.1%. This is about a 13% increase.

**10. Division Website Report:** Trevor Howard provided an update of the website, which is also outlined in newsletter. There has been a factor of three times previous increase in use. Change to new content management system. Can assign access to various members. Additional information:

1. ANS has switched from WordPress to their new content management system (CMS) for the divisions. Content is almost identical, however some of the features are unavailable in the new format. New features exist with the new CMS. March - Accessed the CMS for the first time. May - website built with CMS is ready to launch.
2. The THD website is ready to make the switch, and this will be done after the ANS conference. This shouldn't have any impact on usership, but the website will look different.
3. Moving forward we will have access to the members only restriction on website content. This is useful to providing benefits to ANS registration and THD membership.
4. Now that the website is able to be configured without risk, there really should be a broader discussion on what the website should be moving forward.

#### DISCUSSION

Elia suggested a social media group and chair. We are not making good use of X, Facebook, etc. Action item is to discuss in leadership meeting. Put contact information for at least the chairs. Action item is to group a group to address outreach.

**11. Honors/Awards Committee Report:** Elia noted the conflict with ANS Fellow, nor is it a recognized by H&A. Renamed to THD NURETH Fellow Award. Goal is to promote NURETH. No change in the selection process.

**12. Scholarship Committee Report:** There was some discussion on the selection process. We get evaluation forms, but no discussion. This takes a lot of effort making it difficult to down select candidates. The Scholarship winner was present and was acknowledged. Other is from Purdue and not present.

**13. Conference Screening Committee Report:** Bill Cheung discussed NURETH-22, which is to be in the US in 2027. Proposals are due early in 2025.

**14. Nominating Committee Report:** Bao Wen Yang discussed nominations. He suggested a total of nine to be renewed on PC, with an additional nine new members. This brings the total membership of the PC to 67 out of a maximum membership of 75. Dillon Shaver is next Treasurer.

**15. Old Business**

None

**16. New Business**

None

MOTION to Adjourn: Bao Wen Yang

SECOND: Steve Bajorek

All in favor: MOTION CARRIES.

## APPENDIX A: Proposed agenda

American Nuclear Society – Thermal Hydraulics Division

Executive Committee Meeting: 3:30 PM - 5:30 PM US Pacific Time, Sunday June 16, 2024

### PROPOSED AGENDA

American Nuclear Society – Thermal Hydraulics Division

Executive Committee Meeting: 3:30 PM - 5:30 PM US Pacific Time, Sunday June 16, 2024

1. Opening Bolotnov/Manera
2. Approval of Meetings Agenda All
3. Approval of Minutes from 2023 ANS Winter Meeting All
4. ANS Certification effort Steinman
5. Action Items from 2023 ANS Winter Meeting
  - a) Bylaws/rules change / approval process from HQ (see 6(c)) Bolotnov
6. Chair Report
  - a) Update from HQ Bolotnov/Manera
  - b) Webinars Delgado
  - c) Bylaws/rules task force discussion / formation Bolotnov
7. Treasurer's report
8. Program Committee Report Roelofs
  - a) Action Items from 2024 Program Committee Annual Meeting Shaver
  - b) Update THD Sessions ANS 2024 Annual Meeting Shaver
  - c) Planning for 2025 ANS Annual Meeting update Gutowska/Shaver
  - d) Special issues for NURETH-20 Bajorek
  - e) NUTHOS-14 Update Novog/Morreale
  - f) ATH'24 Update Shaver
  - g) NURETH-21 Update Lee
9. Membership Committee Report Zimmer
10. Division Website Report Howard
11. Honors and Awards Committee Report
  - a) THD NURETH Fellow Award Proposal Song/Merzari
12. Scholarship Committee Report Pointer
13. Conference Screening Committee Report Cheung
14. Nominating Committee Report Yang
15. Old Business All

APPENDIX B: Attendees list (EC Meeting)

ANS Thermal-Hydraulics Division Summer Annual Meeting  
 June 16, 2024  
 Executive Committee Meeting

Name	Affiliation	Phone	Email	Present ?	EC Member
Annalisa Manera					
Igor Bolotnov	ACSV	516 512 1733	igor@bolotnov.com	✓	✓
Steve Bajorek					
Ferry Roelofs	NRG	313 388 4446	ferry@nrg.com	✓	✓
Bao-Wen Yang	Delaware State Univ	301 851 5118	bwyang@delawarestate.edu	✓	✓
Trevor Kent Howard					
Xiaodong Sun	ANL		xhsun@anl.gov	✓	✓
Dillon Shaver					
W. David Pointer					
Hyoung Kyu Cho					
Musa Moussaoui					
Yassin Hassan					
Maria Avramova					
Jun Liao	WERC	412 916 0340	ljiao@westinghouse.com	✓	✓
Bob Martin	MRC	434 907 4866	bmartin@consulting.com	✓	✓
Marilyn Delgado					
Fan-Bill Cheung	PSU	814 863 4661	fbcheung@psu.edu	✓	✓
Chul-Hwa Song	KAERZ		chsong@kaerz.com	✓	✓
Izabela Gutowska	OSU		igutowska@osu.edu	✓	✓
Donna P. Guillen					
Ling Zou	ANL	217 417 3397	lzou@anl.gov	✓	✓
Yong Hoan Kim	ANL	312 353 5093	ykim@anl.gov	✓	Incoming
Karshad Mufthoqul	EPR1	412 480 2067	kmufthoqul@epri.com	✓	✓
Trevor Ryan	ANL (BoB's)	(847) 340-1570	Trevor.Ryan@anl.gov	✓	✓
Wade Marziani	Oregon State	503 737 3018	wade.marziani@oregonstate.edu	✓	✓
Blair (Blair M.)	PSU/ANL	773-256-7034	blair@psu.edu	✓	Incoming
Simon Tschuler	ANL	804-955-7227	tschuler@anl.gov	✓	Incoming



