

ANS – THD Division
Executive Committee Meeting
Annual Meeting
Chicago, IL
15 June, 2025

Attendees (EC Members):

Leadership

- Chair: Igor Bolotnov
- Vice Chair: Steve Bajorek
- Secretary: Ferry Roelofs
- Treasurer: Dillon Shaver (+ proxy from Ling Zou and Sierra Tutwiller)
- Ex Officio: Annalisa Manera (not present)

Appointments

Webmaster: Trevor Kent Howard

Members with Terms:

Term Ending 2025

- Yassin Hassan
- Maria Avramova
- Jun Liao
- Bob Martin (not present)
- Marilyn Delgado

Term Ending 2026

- Fan-Bill Cheung
- Chul-Hwa Song
- Izabela Gutowska (not present)
- Donna P. Guillen
- Ling Zou (not present, proxy to Dillon Shaver)

Term Ending 2027

- Rui Hu
- Elia Merzari
- Subash Sharma
- Sierra Tutwiler (late arrival, proxy to Dillon Shaver)
- Xu Wu

Absent: Annalisa Manera, Bob Martin, Izabela Gutowska

Attendees (Other):

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

1. Opening

Dr. Bolotnov called the meeting to order. The quorum is met. Igor reminds all fathers in the EC of Fathers Day.

2. Approval of Meetings Agenda

A DRAFT agenda was provided for approval (APPENDIX A)

MOTION: Dr. Dillon Shaver moved to approve the agenda

SECOND: Dr. Maria Abramova

NO DISCUSSION

All in favor.

Agenda is APPROVED.

3. Approval of Minutes from 2024 ANS Annual Meeting

The DRAFT minutes of the 2025 ANS Winter Meeting have been provided for review and approval.

MOTION: Dr. Elia Merzari moved to approve the minutes.

SECOND: Dr. Maria Abramova

NO DISCUSSION

All in favor.

Minutes are APPROVED.

4. Action Items from 2024 ANS Winter Meeting

a. Update of the Membership Rules

Subash Sharma explains that the membership committee has drafted rules and provided the draft rules to the task force on the bylaws update. It is proposed to further discuss the topic under 4c.

b. Proposal to initiate a new fund for student and young member support

Dillon Shaver explains that a fund needs a minimum of \$45000 initial funds. The \$5000 fee to install the fund will be waived. It should be noted that probably the first time the fund can be used will be in 2027.

MOTION: Dr. Marilyn Delgado moves to approve to create a student fund with a start amount of \$60000.

SECOND: Dr. Elia Merzari

NO DISCUSSION

All in favor, MOTION CARRIES.

c. Bylaws update

Elia Merzari explains the final few changes that had to be made to the bylaws reflecting the latest updates from the ANS headquarters and including the latest updates from the THD and especially the Membership Committee.

MOTION: Dr. Steven Bajorek moves to approve the bylaws and rules as currently stated.

SECOND: Dr. Marilyn Delgado

NO DISCUSSION

All in favor, MOTION CARRIES

5. Chair report

Igor Bolotnov explains that ANS had prepared a new draft strategic plan with an outlook to 2035 (see Appendix C). The strategic plan encompasses 4 strategic pillars:

- 1) Enhance Technical Exchange within a More Connected Nuclear Professional Community
- 2) Enabling a Significant Expansion of the Nuclear Workforce
- 3) Promoting Better Understanding of Nuclear Technology and Shaping Public Dialogue
- 4) Informing Policymakers to Enable Better Decisions and Stronger Policies

Feedback on the strategic plan can be channeled through the THD chair. If any, please send the feedback within the coming weeks. A short discussion highlight the concern that a 10 year outlook might seem too long. A five year outlook might be more appropriate.

Elia Merzari mentions that this update of the strategic plan will be a good starting point to also update the strategic plan of the THD and ensure consistency with ANS strategic plan. **Action: Steve Bajorek.**

6. Treasurer's report

Dillon Shaver explains that the THD remains to have a very strong financial position and that the scholarship funds are all in good shape. On top of that, it is expected that the THD social planned for Monday evening will provide a small net income. He mentions, like last time, that the Hochreiter and Esposito funds have enough principal balance to increase the awards from \$3000 to \$4000. Another option is to wait and erect a new scholarship if the funds allow to.

7. THD Initiatives

a. THD Benchmark Competition Initiative

Trevor Howard has no update.

b. THD Social Event

Carolina Dutra provides an update on the social event organization. Currently there are about 60 confirmed participants, amongst which approximately 30 students. Igor Bolotnov asks whether the

venue size demands a cap. This doesn't seem the case. Everybody is very curious how the event will turn out and everybody acknowledges the tremendous amount of work done by Carolina while also defending her thesis.

8. International TH

a. Conference scheduling

Ferry Roelofs provides the proposal of the task force on conference scheduling. In short, the proposal is to keep the scheduling of NURETH the same and not to approach the NUTHOS organization to request changes. With the restructuring of the ANS meetings, it will be appropriate to reconsider the scheduling of ATH. The proposal is to make ATH rotating between the US and Europe (or other locations like middle east, Africa or South America). The US meetings will probably be either embedded with other meetings (ANS, ICAPP) or collocated. The meetings in other continents would be standalone.

DISCUSSION

Yassin Hassan reminds the EC of the historic origin of the ATH, providing opportunities for US colleagues to publish full papers rather than extended abstracts. Fan-Bill Cheung asks to consider the fact that ATH might start a competition to NUTHOS. However, this has always been the case, since both conferences use the same year for organization. Ferry Roelofs reminds the EC that Europe hasn't seen a TH conference since NURETH 2013 in Pisa, while the next one is scheduled to be in 2029.

MOTION: Ir. Ferry Roelofs moves to organize ATH 2028 in Europe

SECOND: Dr. Elia Merzari

All in favor, **MOTION CARRIES**

As a result of this motion, the Screening Committee is asked to prepare a call for ATH2028 as soon as possible. **Action Bao-Wen Yang.**

b. International TH Societies Collaboration

Ferry Roelofs provides an update on the initiative to bring together the international TH societies. Several societies have been contacted and tracked down. It would be nice to also have the contacts from China and Taiwan. The intention is to have a short meeting during NURETH-21 in Busan. Ferry will contact the local organization to find a room and time slot.

9. Industrial Engagement Task Force

Jun Liao explains that the bylaws have been drafted and provided to the task force on the bylaws update. The bylaws have not been approved yet. Therefore, the task force is still appointed by the EC/Chair. Once the bylaws are approved, nomination will be handled as usual by the Nominating Committee.

10. Program Committee report (see newsletter and PC minutes)

Dillon Shaver, Hyong Kyu Cho, and Elia Merzari refer to the PC report (Appendix D), gives a few explanations, and is open for questions.

a. Update on THD Program 2025 Annual Meeting

No discussion

b. Update THD Program 2025 Winter meeting planning

No discussion

c. Summary of the 2026 Annual meeting planning

No discussion

d. NURETH-21 Update

To date 656 papers have been accepted. A discussion on the possible remote participation will follow tomorrow during the International Advisory Committee meeting.

e. NURETH-22 Update

NURETH-22 has preliminary approval for the publication plan and the budget. The conference is scheduled for August 2027 in Denver to be organized by INL colleagues and gearing up for sponsorship. The Call for Papers is expected in 2026.

f. NUTHOS-15 Update

No discussion

g. Update on ATH'26

Dillon Shaver mentions that ATH'26 will be embedded in the ANS Phoenix meeting and will be coordinated with ARS and ICAPP. The Call for Papers is to be expected end of 2025 with deadlines aligned with the ANS meeting.

11. Membership Committee Report (see newsletter)

No discussion

12. Division Website Report (see newsletter)

No discussion.

13. Honors and Awards Committee Report (see newsletter)

No discussion.

14. Scholarship Committee Report (see newsletter)

No discussion.

15. Conference Screening Committee Report (NURETH-22)

Fan-Bill Cheung reminds that two of the current members will rotate out. There is a mistake in newsletter. Bao-Wen is the incoming chair. It is recommended to him to arrange to include two members to complete the committee with terms 2025-2028.

16. Nominating Committee Report

No discussion.

17. Old Business

- a. Carolina Dutra asks to follow ANS THD on LinkedIn and reminds on reposting messages
- b. Dillon Shaver reminds on the Award session to be organized on Monday afternoon
- c. Anna Iskhakova brings up the discussion which started in the PC on preservation of data.

DISCUSSION

Everybody recognizes the need for such an action but also understands the difficulties in achieving it. Elia Merzari proposes to setup a task force to prepare a position paper in which the history will be summarized and the needs of THD and the industry explained. The task force will be lead by Anna Iskhakova supported by Marilyn Delgado, Dave Pointer, Yu-Jou Wang, and Bao-Wen Yang. It is also proposed to engage Bob Martin and Yassin Hassan.

- d. Plaques were handed to Dillon Shaver for his PC services and Igor Bolotnov for his EC services.

18. Adjourn

MOTION to Adjourn: Dr. Elia Merzari

SECOND: Dr. Dillon Shaver

All in favor: MOTION CARRIES.

APPENDIX A: Proposed agenda

PROPOSED AGENDA

American Nuclear Society – Thermal Hydraulics Division

2025 Annual Meeting,

Executive Committee Meeting:

3:30 PM - 5:15 PM US Central Time, Sunday June 15th, 2025 (location TBD)

1. Opening	Bolotnov
2. Approval of Agenda	All
3. Approval of Minutes from 2024 Winter meeting	All
4. Action items from 2024 Winter meeting	
a. Update of Membership Committee rules	Sharma
b. Proposal to initiate a new fund for student and young member support	Shaver
c. Bylaws update	Merzari/Martin/Sun
5. Chair report	Bolotnov
a. Update from HQ	
6. Treasurers report	Shaver
7. THD Initiatives	
b. THD benchmark initiative	Howard
c. THD social event	Bourdot Dutra
8. International TH Conference scheduling	Roelofs
a. International TH Societies collaboration	Roelofs
9. Program Committee report	
a. Update THD Sessions 2025 Annual Meeting	Shaver
b. Update THD Program 2025 Winter Meeting	Shaver
c. Summary of 2026 Annual Meeting planning	Shaver
d. NURETH-21 Update	Lee

e. NURETH-22 Update	Sabharwall
f. NUTHOS-15 Update	Shaver
g. ATH 2026 Update	Shaver
10. Membership Committee Report (see newsletter)	Sharma
11. Division Website Report (see newsletter)	Howard
12. Honors and Awards Committee Report (see newsletter)	Sun
13. Scholarship Committee Report (see newsletter)	Pointer
14. Conference Screening Committee Report	Cheung
15. Nominating Committee Report (see newsletter)	Manera/Bolotnov
16. Old Business	All
17. Adjourn	Bolotnov

APPENDIX B: Attendees list (EC Meeting)

Removed in the web-version

APPENDIX C: ANS Strategic Plan

DISCUSSION DRAFT: American Nuclear Society Strategic Plan (2025–2035)

June 5, 2025

Foreword

The American Nuclear Society (ANS) Board of Directors has undertaken a comprehensive strategic planning process to align the Society's direction with the realities of a rapidly changing energy and technology landscape. This process began in 2022 with a rethink of our mission and vision statements. It continued with the adoption of a set of core values that now guide ANS work. Now, it culminates with the strategic plan below.

The Nuclear Environment and the strategic vision for 2035

After decades of relative stagnation, nuclear is surging again. The global transition toward digital infrastructure—fueled by artificial intelligence, high-density data centers, electrification of transportation, and reshoring of advanced manufacturing—is increasing the urgency of need for reliable, clean baseload energy. Nuclear energy is ideally suited to meet these demands, given its overall energy density, reliability, and safety record.

By 2035, the future of nuclear energy technology hinges on making tangible progress in three critical areas: the demonstration and deployment of new-generation nuclear fission and fusion technologies; preservation of the existing reactor fleet via extension and modernization; and, separately from energy, the expanded use of nuclear technology to produce life-saving isotopes, power space nuclear energy and propulsion systems, and adopt advanced materials. This expansion of nuclear technology applications is essential to solving some of humanity's toughest challenges: climate change, energy poverty, cancer and other diseases, and space exploration. If we fail it, the world will no doubt find itself in a hotter, darker, less peaceful place.

The ANS Role in a Nuclear Resurgence

As the professional home for nuclear scientists, engineers, technologists, healthcare providers, skilled workers, educators, and supporters, ANS plays a critical role in building a strong, thriving workforce capable of turning today's dreams into tomorrow's realities. The Society connects professionals across sectors, disseminates cutting-edge research, educates the public, and supports the workforce pipeline. Our commitment to independence, technical rigor, and a strong professional community empowers ANS to be a trusted voice in the nuclear arena.

4 Strategic Pillars of Action

1. **Enhance Technical Exchange within a More Connected Nuclear Professional Community**

ANS will solidify its position as the “town square” of the nuclear community by broadening its publication and collaboration platforms and updating conference formats to give members better access to high-quality technical content.

1.1. ANS will reimagine its portfolio of national and topical conferences to better serve both its core membership and the larger nuclear workforce and will increase the availability of online content, such as webinars and technology briefings, to support more inclusive and timely knowledge sharing.

1.2. ANS, through its publications function, will continue to expand its coverage of nuclear-related news and deliver insights to not only its members but also investors, policymakers, and the broader public. The ultimate goal is for ANS to be the premier hub for technical communication in the nuclear sector and beyond.

1.3. ANS will leverage its publisher partnerships to support the continued growth in circulation and reputation of ANS journals. There is potential for ANS to add to its collection of technical content with the goal of providing the best, most complete technical portfolio for the nuclear community.

1.4. ANS must continue to develop and maintain high-quality domestic and international consensus standards and other approved standards-related products that meet the current and anticipated future needs of the nuclear industry and promote their broad acceptance, endorsement, and use.

2. **Enabling a Significant Expansion of the Nuclear Workforce** The nuclear industry is undergoing a significant resurgence. Organizations are working to relicense and extend the life of existing nuclear plants, restart previously decommissioned facilities, and design, develop, and build advanced reactors—including both fission and fusion technologies. The underlying key to solving all these challenges is a strong, growing community of nuclear professionals. We don’t just need more nuclear engineers and scientists, we need technicians, tradespeople, cyber specialists, and people in finance, law, policy, and business operations – people at every skill level. Meeting this challenge will require sustained investment in education, training, and workforce development at every level of education and career advancement. As the current workforce approaches a generational shift, ANS is uniquely positioned to lead efforts that will ensure a new generation of nuclear professionals is prepared to meet the industry’s long-term needs.

- 2.1. ANS will continue to support traditional engineering and professional roles through online programs and certificate courses, in-person courses, our Certified Nuclear Professional (CNP) Program, and by helping support the professional engineering exam for nuclear engineers. It will also expand its focus by partnering with other organizations to support workforce development across a broader set of disciplines, including radiation technicians, welders, instrumentation specialists, and construction workers.
- 2.2. ANS will continue to expand its mentoring opportunities for ANS members to build meaningful connections, give and receive career guidance, and expand their networks.
- 2.3. ANS will continue to support the needs of our core of highly skilled technical members, but we will also expand program offerings to meet the needs of nuclear professionals who do not have a technical degree. We need to be open to all.
- 2.4. ANS will continue supporting and growing student sections at U.S. universities open to any student with an interest in applied nuclear technology. By offering scholarships and grants, and conference student programs, the Society will help support students as they begin their careers. And through our Accelerators high school program, ANS will help generate interest in pursuing careers in nuclear.
- 2.5. ANS will serve as a central hub for nuclear education by supporting entities seeking guidance on training, credentials, and standards. This includes continuing and growing its K–12 education and outreach initiatives. ANS may also create a comprehensive repository of nuclear education resources to further support workforce development.

3. Promoting Better Understanding of Nuclear Technology and Shaping Public Dialogue

Public support for nuclear energy has grown significantly in the U.S. and around the world. Yet, lingering concerns persist—particularly within the finance and regulatory sectors of the nuclear industry—about the fragility of public acceptance of nuclear technology and its susceptibility to adverse events. This “fear of fear of nuclear” acts as a subtle yet significant drag on nuclear innovation and commercialization. ANS will leverage its position as the independent, science-based voice of the nuclear professional community to promote a more complete appreciation of nuclear technology’s benefits and a more rational understanding of its risks to the public.

- 3.1. ANS will prepare technical experts for communicating effectively, supporting media literacy, and proactively seeking opportunities to speak at public forums, schools, and civic events, and in media interviews.

- 3.2. ANS will strengthen and expand the Rapid Response Taskforce— a dedicated network of trained nuclear professionals committed to providing timely, science-based information and shaping the narrative when nuclear issues are in the news.
- 3.3. ANS will position itself as a trusted source for information, providing accurate, accessible nuclear science content and a cadre of nuclear professionals who are trained and prepared to be public communicators.
- 4. **Informing Policymakers to Enable Better Decisions and Stronger Policies** The nuclear resurgence we envision in this strategy requires a portfolio of federal, state, and local policies that together provide adequate support for the commercial deployment of new advanced reactors, continued research and development on advanced nuclear technologies, development and expansion of the nuclear workforce, and the advancement of non-energy nuclear technologies, including isotope production and space-based systems. ANS maintains a unique position in the policy domain. While we are not a lobbying organization, ANS has a unique role as the voice of the nuclear community in helping improve policymakers’ broader contextual understanding of nuclear issues, enabling them to make better, more informed policy decisions.
 - 4.1. ANS will drive unbiased thought leadership on critical nuclear topics through detailed policy papers, informed speakers, and insightful events.
 - 4.2. ANS will lead advocacy for federal stewardship of nuclear science, engineering and technology education, and workforce development.
 - 4.3. ANS will provide rapid response for policy input (like the communications task force, comprised of experienced and trained staff and members to provide unbiased and timely input).
 - 4.4. ANS will partner with other NGOs on priority policy matters of broad interest to the nuclear community.

Conclusion

The next decade represents a turning point for nuclear energy and the American Nuclear Society. With a unified strategy and a bold vision, ANS is poised to lead the nuclear community toward a future that is cleaner, more advanced, and more secure. This strategic plan will guide our work.

To be included as text boxes in fin

Our Mission is to empower a strong, connected, and engaged professional community that cultivates nuclear science and technology for the benefit of humanity.

Our Vision is a world that unlocks the full potential of the atom to improve human lives and preserve our planet

Core Values

1. Excellence: We strive for excellence in all aspects of nuclear science, technology, and engineering, setting high standards for innovation, safety, and professionalism.
2. Transparency and Integrity: We uphold the highest ethical standards of honesty, independence, and accountability in all our communications, interactions, and endeavors.
3. Collaboration: We value collaboration and teamwork, fostering partnerships across disciplines, industries, and global borders to advance nuclear knowledge and address complex challenges.
4. Diversity and Inclusion: We embrace diversity and inclusion, recognizing the value of varied perspectives and backgrounds. We continuously seek to create a diverse and sustainable membership by actively reaching out to individuals and communities, inviting them to participate and contribute to the advancement of nuclear science and technology.
5. Education and Outreach: We are committed to education and outreach, promoting public understanding of nuclear science and technology while supporting the development of the next generation of nuclear professionals.
6. Safety and Security: We prioritize safety and security as fundamental principles, advocating for rigorous safety standards, responsible stewardship of nuclear materials, and effective safeguards to protect people and the environment.
7. Sustainability: We advocate for the responsible use of nuclear technology to meet global environmental and human development objectives while minimizing impact on communities.

APPENDIX D: PC Report

Separately available