

Thermal Hydraulics

Professional Division

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Donna P. Guillen

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Terms expiring 2027:

Rui Hu

Elia Merzari

Subash Sharma

Sierra Tutwiler

Xu Wu

Terms expiring 2028:

Maria Avramova

Marilyn Delgado

Trevor Howard

Jun Liao

Bao-Wen Yang



A Message from the Chair

Dear colleagues,

Spring has returned. Not only in the change of weather seasons, but also in the state of nuclear technology and the important role of thermal-hydraulics. Over the past few months, activity associated with new and advanced reactors has only increased. Conventional light-water reactors are seeking power uprates, extended burnup, and lifetime extensions. Reactors once moth-balled are being returned to service and nuclear technology is being developed for “new” applications such as space nuclear

propulsion and civilian marine propulsion. Fusion reactors are being proposed for near-term operation. These have all been subjects of investigation in the past but are now coming back into serious consideration. The future is promising and thermal-hydraulics is vital to its success.

For all of these advancements and new opportunities there are challenges. Most of the proposed advanced non-light water reactors involve “multiphysics” and phenomena that are not well understood. Conventional reactors and the proposed power uprates challenge safety margins and require higher resolution in our thermal-hydraulic models and higher certainty in our simulations.

As Craig Percy pointed out in a recent edition of *Nuclear News*, we have considerable responsibility to the public and investors in nuclear technology. It must remain safe, and it must be economically competitive with other approaches for power generation. Our research and application of thermal-hydraulic principles must satisfy both.

It has been a busy but productive year for THD. We’ve updated our operational plan and have planned succession in our subcommittees for the next few years. We’ve stood up our Industrial Engagement Subcommittee and specified its membership under the leadership of Dr. Jun Liao. We look forward to this subcommittee assisting in increasing interactions with our members working in industry and helping to identify how THD can assist industry in addressing industry’s thermal-hydraulic needs.

Standing CommitteesTechnical Program Chair: Izabela GutowskaHonor & Awards Chair: Fan-Bill CheungScholarship Chair: W. David PointerNomination Chair: Igor BolotnovSocial Media: Carolina Bourdot DutraMembership Chair: Subash SharmaConference Screening Chair: Bao-Wen YangIndustrial Engagement Chair: Jun LiaoYMG Liaison: Robert Kile

Membership remains strong and the THD has well over 1000 members. Our Membership Subcommittee, led by Dr. Subash Sharma has investigated ways to maintain and increase membership keeping in mind that as interest in nuclear technology expands, we may have more interaction with organizations such as ASME (American Society of Mechanical Engineers) and AIChE (American Institute of Chemical Engineers). One of the high priority objectives of ANS is workforce development. By welcoming participation by those from other organizations we help support this ANS goal. The subcommittee also recently prepared a flyer for the 2026 Student Conference that may hopefully generate more student interest.

Membership is important, but active membership is even more important to success of the THD. Get involved! Participating in THD activities is a career booster as I noted in a recent ANS webinar on THD. We encourage our younger members to serve as reviewers, session chairs, track chairs and serving as members on our subcommittees. Support is always appreciated in our ANS meetings and THD organized conferences such as the upcoming NUTHOS-15 (September 2026), the Advances in Thermal-Hydraulics embedded topical (October 2026) and NURETH-22 (August 2027). Our Technical Program Committee chairs (Drew Ryan and Iza Gutowska) are doing great job of organizing our technical sessions but there is always room for more to participate. I hope you can get involved.

The following sections of this newsletter provide updates on recent and upcoming THD activities. Our next Executive Committee meeting will be held at the ANS Summer meeting in Denver, CO on Sunday May 31 from 3:30 to 5:00 pm. We will

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also have a (virtual) Technical Program Committee meeting on Friday May 29 starting at 10 am EDT. I hope you can attend the ANS Summer meeting in-person and look forward to seeing you there. Otherwise, until we meet again, please keep doing the great job you are doing for ANS and the THD.

Respectfully yours,

Stephen M. Bajorek
Chair, ANS Thermal-Hydraulics Division
stephenbajorek@gmail.com or
Stephen.Bajorek@nrc.gov

THD Strategic Plan

The THD Strategic Plan is a document that helps the Division focus on its mission and provides guidance to our thermal-hydraulic community. One of our activities this past year has been to update the plan so that it conforms to our bylaws (recently revised) and to changes in the nuclear industry. The mission of the THD remains to establish, stimulate, and maintain quality technical and professional approaches in all areas of nuclear thermal hydraulics. In furtherance of this mission, the Division shall devote itself specifically to:

- The advancement and dissemination of knowledge of thermal and hydraulic

phenomena as they pertain to the steady-state design or transient performance of equipment in nuclear power plants and other segments of the nuclear fuel cycle.

- Aid in the integration and dissemination of thermal hydraulics information developed in research and design programs and from experience with operating nuclear reactors.
- Promote effective interchange of thermal hydraulics information among the many professional groups and organizations participating in the development and application of nuclear reactor technology.
- Provide a mechanism for interaction between the nuclear industry and regulatory groups.
- Enhance nuclear industry workforce development through support of student conferences and scholarships.

The key addition is that enhancing the nuclear industry workforce becomes part of our scope and mission. To this end we've set up an additional fund that will eventually support another student scholarship and we intend to continue our support of student conferences. I encourage everyone to attend student conferences if they can, and to serve as mentors to those new to the nuclear workforce.

Stephen M. Bajorek
Chair, ANS Thermal-Hydraulics Division

2025 THD Best Paper Award

The Honors and Awards Committee received candidate papers from NURETH-21 held in Busan, Korea, for the 2025 THD Best Paper Award. After careful evaluation and deliberations, the Committee selected the following paper as the 2025 THD Best Paper in recognition of its exceptional quality and archival value: Kyung Mo Kim, Joseph Kelly, Stephen Bajorek, Xiaodong Sun, "Development of Wall Convective Heat Transfer Model for the Dispersed Flow Film Boiling Regime Based on Quasi-steady-state Experiments," presented at the 21st International Topical Meeting on Nuclear Reactor Thermal-Hydraulics (NURETH-21) in Busan, Korea, August 31 - September 5, 2025.

Congratulations to all the authors!

Special Issue of NE&D: The History of Nuclear Technology through protagonists and their achievements

Since its birth, nuclear fission technology for energy production has been on the edge of exponential growth or ending-up into the museum of discoveries. Despite of this, nuclear electricity production contributed to technological progress and economic stability all over the world, avoiding huge amounts of polluting materials in the environment. Today, nuclear electricity production is declining in the countries that contributed to the technology development and growing in countries needing the adjustment of social welfare.

Key motivations to propose the History of Nuclear Technology through protagonists (or prominent scientists and technologists) and their achievements after the first quarter of the 21st century are:

- The prominent scientists and technologists who contributed to the development of the present technology are at the end of their active life, or recently overpassed this boundary, but the memory of their achievements is still alive.
- Technology innovations (i.e. small and micro reactors, transmutation, materials different from water for cooling and moderation, thermo-ionic generators, nuclear thermal propulsion) have the potential to put the expertise for design of current reactors in a grave.

Nuclear Engineering and Design will devote a series of six virtual special issues to the History of Nuclear Technology. The sixth virtual special issue will be completely devoted to thermal hydraulics. Several prominent thermal hydraulics colleagues have been invited to contribute. Publication is expected end of 2026 or beginning of 2027. Something to look out for!

Guest editors: Piero Ravetto, Chul-Hwa Song, Mohammad Modarres, Hamid Sadegh-Azar, Arno Heeren Oliveira, Elia Merzari

Data Preservation Whitepaper (Update)

Since completion of the initial draft, the white paper has been discussed at multiple THD Executive

Committee meetings, where members provided comments and recommendations. These are currently being incorporated into the document. The goal is to finalize the white paper before the 2026 ANS Annual Meeting. The revised draft now includes more detail on a shared data framework that would integrate open-source thermal-hydraulic data from publicly available sources and make it available in an AI-ready format. The division still needs to decide which priority areas should be organized first.

Anna Iskhakova
Kansas State University

NEA Advanced Thermal Hydraulic Experiment for Nuclear Analysis and Safety (ATHENA)

ATHENA aims to be the premier international framework for performing joint, international, thermal-hydraulic experiments to acquire data in support of safety analysis of current and future NPPs. ATHENA should serve developing, organizing and supporting collaborative thermal-hydraulic research capabilities, providing continuity and sustainability through the gathering of a large multinational community with several stakeholders that will share goals, resources and results to define and implement joint experimental projects and cross-cutting activities such as codes benchmarking, knowledge dissemination, training and data bases development. ATHENA should create and provide the necessary conditions, including the due identification and prioritization of research needs, funding, and access to core research capabilities with scalable integral and separate effects experimental infrastructures able to generate high-quality data for the development and validation of state-of-the-art codes used in the thermal-hydraulic safety analyses of NPPs, including large and small modular advanced reactors. ATHENA should cover advanced LWR reactor designs, characterized by features common with the current generation of LWR reactors (e.g., large-scale BWRs, PWRs, PHWRs and VVERs) and by new specific features (e.g. passive safety systems) with new extended operating conditions and new phenomena. It will address in priority reactor coolant system and containment thermal-hydraulic phenomena for current and advanced LWR-cooled reactor including SMRs and should

also assess opportunities to address thermal-hydraulic safety gaps for non-LWR reactor technologies.

A workshop will take place on 10–11 September 2026 at the Nuclear Energy Agency (46, quai Alphonse Le Gallo, 92100 Boulogne-Billancourt, France).

The workshop will focus on the organisational and implementation aspects of the ATHENA framework, in coordination with ongoing NEA thermal-hydraulic joint projects and related CSNI initiatives. It will provide a forum to discuss strategic context, identify synergies within NEA activities, capture industry expectations, and outline initial steps towards framework implementation.

The workshop will bring together regulators, TSOs, industry, research organisations and academia to discuss strategic priorities, synergies with NEA activities, industry expectations, and the next steps towards implementing the ATHENA framework. Participation is free of charge, with registration open until 30 June 2026.

https://www.oecd-nea.org/jcms/pl_116224/building-the-athena-framework

Dr. Martina Adorni (OECD/NEA)
Dr. Stephen Bajorek (US NRC)

NENE 2026

The New Energy for New Europe conference of the Nuclear Society of Slovenia is an international annual meeting of professionals dealing with different aspects of nuclear energy from all around Europe and worldwide. The primary objective of the meeting is to foster international cooperation amongst professionals active in nuclear research and educational institutions, nuclear vendors, utilities, and regulatory bodies.



The NENE 2026 conference venue is located between the towns of Portorož and Piran (photo)

The 35th Nuclear Energy for New Europe - NENE2026 conference will be held in Grand Hotel Bernardin in Portorož, Slovenia, from September 7 to 10, 2026.

The year 2026 marks the 60th anniversary of the JSI TRIGA Mark II research reactor, highlighting the enduring role of research reactors in advancing nuclear science, technology, and education.

NUTHOS-15

NUTHOS-15, Sept.26-30, 2026, Kashiwa-no-ha (Tokyo area), JAPAN.

<https://www.nuthos.org/>



The 15th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation, and Safety (NUTHOS-15) will be held September 26–30, 2026, in Kashiwa-no-ha (Tokyo area), Japan. With more than 300 draft papers received, the conference promises to be a success. For details on the program and updates, please visit www.nuthos.org. We look forward to your contributions and to a successful and engaging workshop.

Prof. Koji OKAMOTO (Chair of NUTHOS-15)
okamoto@n.t.u-tokyo.ac.jp

ATH 2026

The Advances in Thermal Hydraulics conference (ATH 2026), hosted by the Thermal Hydraulics Division, will take place November 15–18, 2026, in Phoenix, Arizona embedded in the ANS Winter Meeting. ATH2026 brings together researchers, engineers, and industry leaders to share the latest advances in nuclear thermal hydraulics. As part of a growing series of topical meetings, ATH 2026 will feature peer-reviewed technical papers and presentations highlighting

new developments across reactor analysis, modeling, and system performance.

We encourage the submission of original, high-impact work that advances the state of the art in thermal-hydraulics, with contributions spanning computational methods, experimental studies, and applications to current and advanced reactor systems. For ATH 2026 we have added technical tracks focused on fusion energy and AI/ML methods compared to previous years. We will accept full (10-page) papers, standard 4-page summaries, and 1-page abstracts for inclusion in the technical program. Any young member lead author and presenter is strongly encouraged to submit a full paper to our Young Professionals Thermal Hydraulics Research competition. See <https://www.ans.org/meetings/ath2026> for details.



In addition to the expanded technical tracks, ATH 2026 will feature an opening plenary session that sets the stage for the meeting's major themes and will be complemented by the keynote presentations. Planned panels sessions will further engage participants in discussions on timely issues relevant to the nuclear industry, encouraging dialogue between academia, national laboratories, and industry stakeholders on the future of nuclear technology and safety.

Through ATH, the Thermal Hydraulics Division aims to foster collaboration and knowledge exchange across organizations, creating opportunities for attendees to build partnerships and address pressing challenges facing the nuclear energy sector. We sincerely hope you will join us in Phoenix!

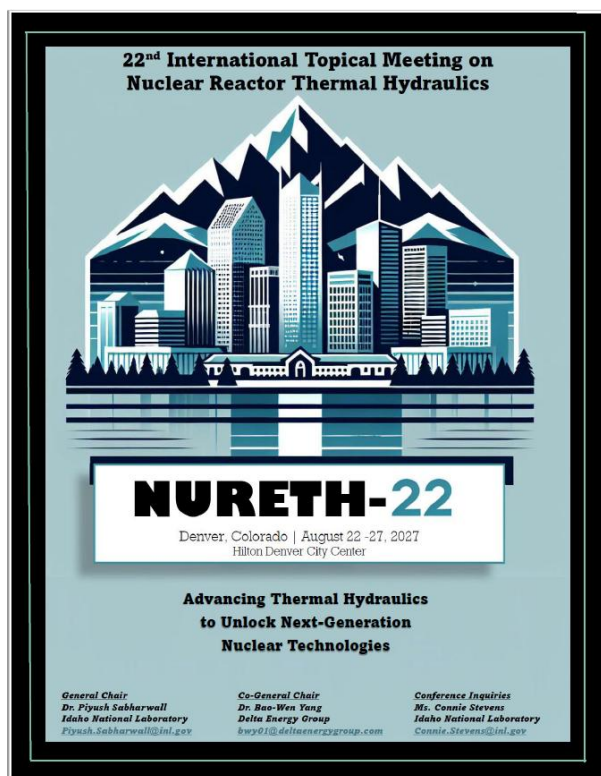
General Chair: Igor Bolotnov (NCSU)
General Chair: Ferry Roelofs (NRG PALLAS)
Technical Program Chair: Dillon Shaver (ANL)

NURETH-22

The 22nd edition of the NURETH conference series is scheduled to take place from 22-27 August 2027 in Denver, Colorado. The theme of the conference is 'Advancing Thermal-Hydraulics to Unlock Next-Generation Nuclear Technologies'.

NURETH-22 will showcase the latest technological advancements in thermal-hydraulics, including state-of-the-art computational methods, innovative experimental setups, and the application of artificial intelligence (AI) and machine learning in thermal-hydraulic analysis, while encouraging global partnerships in these emerging research topics.

Dr. Piyush Sabharwall (INL) General Chair
Dr. Bao-Wen Yang (Delta Energy Group) Co-general Chair



Conference Screening Committee

At the Spring 2025 meeting, the Conference Screening Committee (CSC) was charged by the ANS THD Executive Committee (EC) with soliciting, evaluating, and selecting the most suitable proposal to host ATH-2028 as a standalone meeting in Europe. To support this effort, a Call for

Proposals (CFP) was drafted, reviewed, approved, and distributed through ANS and ANS-THD communication channels. The CFP was also shared directly with numerous organizations and individuals who might be interested in hosting the event.

The CSC carefully reviewed and evaluated the single proposal submitted for ATH-2028 using the established ATH Conference Selection Criteria for Proposal Evaluation. Several recommendations for improvement were provided to the proposing organization, and these suggestions were incorporated into the revised final submission. Based on the evaluation results, the proposal from the Društvo jedrskih strokovnjakov Slovenije (Nuclear Society of Slovenia, DJS) in collaboration with Jožef Stefan Institute has been selected to host ATH-2028 in Portorož, Slovenia, for a three-day meeting planned for 12–15 June 2028 at the Grand Hotel Bernardin, a premier Mediterranean congress venue offering full meeting, exhibition, and hospitality facilities. Portorož and the neighboring historic town of Piran are located on the Istrian peninsula along a unique stretch of the Adriatic coast. Portorož is a well-known Mediterranean destination with a wide range of accommodations, from luxury hotels to more economical options.

Conference preparation activities are now underway. As this will be the first standalone ATH conference held outside the United States, the CSC strongly encourages all THD members to participate actively in the organization, preparation, and paper-review processes to help ensure a successful ATH-2028.

With preparations for NURETH-22 - to be held in Denver, USA, on August 22–27, 2027 - well underway, the CSC is now initiating the solicitation and selection process for the next conference in the series, NURETH-23, planned for 2029 in Europe. Tentatively, the CSC plans to issue a Call for Proposals, along with the evaluation criteria, between June and July 2026.

The RFP and evaluation criteria will be distributed via ANS/THD in July 2026, with proposal submissions due by November 15 to 30, 2026. Selection of the NURETH-23 host is anticipated by February 2027.

Dr. Bao-Wen Yang, October 3, 2025
Chair, Conference Screening Committee (CSC)

ATH 2028

Mark your calendars for the Advances in Thermal Hydraulics (ATH) 2028 topical meeting! Organised by the ANS Thermal Hydraulics Division, this biennial event is the gold standard for peer-reviewed research in the field.

- When: 12–15 June 2028
- Where: Portorož, Slovenia
- Host: Nuclear Society of Slovenia

As a standalone meeting, ATH 2028 will offer an intensive focus on the latest full-length technical publications and innovations in nuclear thermal hydraulics.

Dr. Iztok Tiselj (JSI)



Social Media Report

Over the past several months, our division's online presence has continued to grow, strengthening connections across academia, industry, and national laboratories. I am excited to share that the ANS THD LinkedIn page has now surpassed **1,000 followers!**

This milestone reflects strong engagement across a broad professional audience, with a healthy mix of entry-level (~38%) and senior (~28%) professionals. It is encouraging to see participation across career stages as we continue to connect with both current and future members of the thermal hydraulics community.

We have also launched a new **Media** page on the THD website to showcase photos from past conferences and division activities. The page will continue to expand as additional highlights from our

events are collected and shared. If you have photos you would like to contribute, please send them via email with "[ANS THD]" in the subject line.

Thermal Hydraulics Division

Professional Division

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Conference Photo Gallery

A look back at highlights from our past conferences. Explore photos from each year to see keynote moments, sessions, networking events, and behind-the-scenes snapshots from our community.

2025 ANS Annual Conference

Highlights included a packed executive meeting, engaging presentations and sessions, and our first-ever THD Networking Mixer!

In addition, we are seeking volunteers to support the Division's social media presence, particularly on LinkedIn and Instagram. This is an excellent opportunity for students and early-career members to become involved and help promote division activities while strengthening community engagement. If you are interested in contributing, please do not hesitate to reach out. Be sure to follow us on **LinkedIn**, **Instagram**, and visit our **website** for updates on events, news, and opportunities to get involved with the THD community!



[ANS Thermal Hydraulics Division](#)



[@ans_thd](#)



<https://thd.ans.org/>

Carolina Bourdot Dutra (Kairos Power)
ANS THD Social Media Master

Technical Program Committee

The ANS Thermal Hydraulic Division Program Committee (ANS THD PC) is pleased to welcome everyone to Denver, CO, for the **2026 ANS Annual Conference**. The technical program for THD will include a total of 62 summary presentations in 12 technical sessions and 3 panel sessions. All sessions are listed in the table on the right. We are still looking for volunteers to serve as session chairs or co-chairs, so if you are planning to attend and wish to volunteer, please contact us!

2026 ANS Annual Conference THD Technical Sessions

May 31–June 3

Session	# of papers	Time Slot (MDT)
Advanced Reactor Thermal Hydraulics: I	5	Mon, 1:00-2:45pm
Computational Thermal Hydraulics: I	5	Mon, 1:00-2:45pm
Thermal Hydraulics: General	6	Mon, 3:15-5:00 pm
Thermal Hydraulics for LWR High Burnup Fuel and Extended Operation	Panel	Mon, 3:15-5:00 pm
Experimental Thermal Hydraulics: I	5	Tue, 10:00-11:45 am
AI / ML Applications for Thermal Hydraulics: I	5	Tue, 10:00-11:45 am
Advanced Reactor Thermal Hydraulics: II	5	Tue, 1:00-2:45 pm
Computational Thermal Hydraulics: II	5	Tue, 1:00-2:45 pm
Computational Multiphase Flow	6	Tue, 3:15-5:00 pm
Upcoming Advanced Reactor Demonstrations	Panel	Tue, 3:15-5:00 pm
AI / ML Applications for Thermal Hydraulics: II	4	Wed, 8:00-9:45 am
Strengthening the Role of Thermal Hydraulics for Future Nuclear Engineers: Retaining Talent	Panel	Wed, 8:00-9:45 am
Experimental Thermal Hydraulics: II	5	Wed, 10:15-11:45 am
High Temperature Test Facility Thermal Hydraulics Benchmark	6	Wed, 10:15-11:45 am
Experimental Multiphase Flow	5	Wed, 1:15-3:00 pm

A total of 76 summaries and abstracts were submitted to THD with 214 reviews completed by 49 reviewers (out of 246 reviewers pool). We had an average of 1.5 reviews per submission with reviewers contributing on average 4.4 reviews each of those who participated. Notably, 8 reviewers contributed 10 or more reviews and we would like to take this opportunity to thank the session organizers and reviewers for their efforts.

Papers, summaries, and lightning talk abstracts are solicited for the [2026 ANS Winter Conference and Expo](#), to be held November 15–18, 2026, in Phoenix, AZ. The conference will feature the embedded [Advances in Thermal Hydraulics \(ATH\)](#) topical meeting, organized by the American Nuclear Society Thermal Hydraulics Division. This eighteenth event in an ongoing series will include peer-reviewed, full-length technical papers, summaries, and abstracts covering recent advances in thermal hydraulics. We anticipate an

exciting program with contributions in the following subject areas:

- Fundamental Thermal Hydraulics
- Code Development and Applications
- Thermal Hydraulics of Operating LWRs
- Severe Accidents, Phenomena, Modeling and Experiments
- Thermal Hydraulics of Advanced Reactors
- Thermal Hydraulics of Nuclear Installations
- Thermal Hydraulics for Fusion Systems and Components
- AI & ML for Nuclear Thermal Hydraulics
- Special Sessions
- Young Professionals Research Competition
- Thermal Hydraulics Summaries
- Thermal Hydraulics Abstracts

The [2026 International Conference on Advances in Nuclear Power Plants \(ICAPP\)](#) will be held as an international embedded topical meeting during the 2026 ANS Winter Meeting, and the registration fee will give access to both conferences.

The other upcoming conference is the 15th International Topical Meeting on Nuclear Reactor Thermal-Hydraulics, Operation, and Safety ([NUTHOS-15](#)).

Proceeding the 2026 ANS Annual Meeting, the THD PC meeting will be held online on Friday May 29th from 9:00am – 11:00am (CT). It can be accessed [here](#) via Teams.

As always, we would like to encourage our members to actively participate by attending our meetings, submitting paper summaries, volunteering to organize sessions, and supporting the peer-review of the papers.

Thank You,
Izabela Gutowska (Oregon State University)
THD PC Chair
Drew Ryan (Naval Nuclear Laboratory)
THD PC Assistant Chair

Honors and Awards Committee 2025 THD Technical Achievement Award

The Technical Achievement Award is the highest award given by the THD, presented annually to a member of the THD in recognition of outstanding technical achievements.

On November 9, 2025, the Thermal Hydraulics Division held a brief award ceremony at the ANS 2025 Winter Meeting in Washington, DC to present the THD's 2025 Technical Achievement Award (TAA) to Dr. Stephen M. Bajorek in recognition of his outstanding technical contributions in advancing the field of nuclear reactor thermal hydraulics and safety, particularly in enhancing the US NRC's licensing code capabilities for LWRs, and for his vision of the NRC licensing strategy for advanced nuclear reactors.



Dr. Stephen M. Bajorek (left) and Prof. Fan-Bill Cheung

An official recognition of Dr. Bajorek will be held at the ATH (Advances in Thermal Hydraulics) embedded meeting at the 2026 ANS Winter Conference & Expo in Phoenix, AZ, during which Dr. Bajorek will deliver a TAA lecture at the Conference.

Congratulations, Dr. Bajorek, on receiving this highly prestigious award!

2026 THD Meritorious Service Award

The THD Meritorious Service Award recognizes an individual for sustained and exemplary service to the nuclear thermal-hydraulic profession.

The THD Honors and Awards Committee selected Dr. Robert P. Martin, Independent Industry Consultant and Member of the Advisory Committee

on Reactor Safeguard, US Nuclear Regulatory Commission, Washington, DC, as the recipient of 2026 THD Meritorious Service Award in recognition of his long-standing and exceptional service and contributions, devoted leadership within the nuclear thermal-hydraulics community and profession, and unwavering support of the nuclear industry and students.

Congratulations, Dr. Martin, for the well-deserved recognition, and thank you for your outstanding service and contributions to the THD and the international thermal hydraulics community!

Final Remarks

The THD Honors and Awards Committee encourages and welcomes nominations for the THD awards. The details about these awards can be found at <https://thd.ans.org/awards>.

Finally, we would like to take this opportunity to thank the THD H&AC members and all the nominators as well as writers of letters of support for their dedicated work!

Congratulations to the highly deserving award recipients!

Fan-Bill Cheung
Chair, ANS/THD Honors and Award Committee
fxc4@psu.edu

Elia Merzari
Vice Chair, ANS/THD Honors and Award Committee
ebm5351@psu.edu

Scholarship Committee

The American Nuclear Society Thermal Hydraulics Division awards two annual graduate student scholarships: the Lawrence E. Hochreiter Graduate Scholarship and the Vincent J. Esposito Graduate Scholarship. Applications for both scholarships are due February 1 each year, and they are awarded for the following academic year.

The winner of the 2026 Lawrence E. Hochreiter Graduate Scholarship is Luiz Aldeia Machado of the Pennsylvania State University. The winner of the 2026 Vincent J. Esposito Graduate Scholarship is Wafaa Osman of North Carolina State University. Congratulations to both of our awardees!

In 2026, 17 eligible applications were received for the Hochreiter scholarship, and 5 eligible applications were received for the Esposito

scholarship. Applications were received from 10 universities in 10 US states. Applications are screened for eligibility and reviewed by the ANS THD scholarship committee, considering responses in 5 evaluation categories.

The **Lawrence E. Hochreiter Graduate Scholarship** was established by the ANS THD in 2019 and first awarded for the 2020-2021 academic year. The scholarship honors Dr. Lawrence E. Hochreiter, pioneer in nuclear thermal hydraulics modeling and nuclear safety analysis at Westinghouse Electric Company and the Pennsylvania State University, who was an active member of the Thermal Hydraulics Division. The scholarship is awarded to a graduate student in nuclear science and engineering who is studying topics related to nuclear thermal hydraulics.

Lawrence E. Hochreiter Graduate Scholarship Recipients

2026	Luiz Aldeia Machado
2025	Sierra Tutwiler
2024	Broderick Sieh
2023	Victor Coppo Leite
2022	Arturo Cabral
2021	Adam Kraus

The **Vincent J. Esposito Graduate Scholarship** was established by the ANS THD in 2020, with the generous support of the Esposito family, and was first awarded for the 2022-2023 academic year. The scholarship honors the ongoing contributions of Dr. Vincent J. Esposito, who is an Adjunct Professor at the University of Pittsburgh, former Vice President of the Nuclear Fuel Business Unit of Westinghouse Electric Company, and the 2013 American Nuclear Society Glenn T. Seaborg Congressional Fellow. The scholarship is awarded to a first-year graduate student in nuclear science and engineering who is studying topics related to nuclear thermal hydraulics.

Vincent J. Esposito Graduate Scholarship Recipient

2026	Wafaa Osman
2025	Lauren Kohler
2024	Carolina da Silva Bourdot Dutra
2023	Fadel Nasr
2022	Brandon Aranda

Chair: W. David Pointer (ORNL)

Nominating Committee

The THD Nominating Committee (NC) is responsible for selecting candidates for the division's Executive Committee (EC), standing committees, and division officers. The NC consists of the current Division Chair, Vice Chair, Program Committee Chair and the Immediate Past Division Chair, who serves as the Chair of the Nomination Committee.

The 2025-2026 Nominating Committee consists of the Division Chair (Dr. Steve Bajorek), Vice Chair (Ir. Ferry Roelofs), Program Committee Chair (Dr. Izabela Gutowska) while the Immediate Past Division Chair (Dr. Igor Bolotnov) serves as the Chair of the Committee.

We welcome anyone who is interested in serving the division in any capacity to contact the division leadership and actively participate in the division activities and volunteer work. We especially encourage the members of the Program Committee (PC) who have shown their dedication and contribution to the PC or other standing committees to apply for the EC positions and other senior roles.

In addition to EC and division officer nominations presented in the last newsletter THD Nomination committee in coordination of respective committee chairs proposed the following new members to be appointed by the EC to each committee with starting terms in June 2026:

Conference Screening Committee, chair: Dr. Bao-Wen Yang:

Chul-Hwa Song (term ends 2030)
Yassin Hassan (term ends 2030)

Membership Committee, chair: Dr. Subash Sharma

Guani Wang (term ends 2030)
Baris Sarikaya (term ends 2030)

Scholarship Committee, chair Dr. Dave Pointer

Donn Todd (term ends 2029)
Piyush Sabharwal (term ends 2029)

Industrial Engagement Committee, chair Dr. Jun Liao

Next chair: Kurshad Muftuoglu (term ends 2029)
Bob Martin (term ends 2027)
Giacomo Busco (term ends 2027)
Bao-wen Yang (term ends 2028)
Baris Sarikaya (term ends 2028)
Jun Liao (term ends 2029)
Jon McWhirter (term ends 2029)

Program Committee, chair Dr. Izabela Gutowska

New members (intended start June 2025):

Adam Dix (term ends 2028)
 Jeong-Ik Lee (term ends 2028)
 Arsen Iskhakov (term ends 2028)
 Anna Iskhakova (term ends 2028)
 Marco Delchini (term ends 2028)

New members to start June 2026:

Yu-Jou Wang (term ends 2029)
 Ki Yong Choi (term ends 2029)
 Carolina Bourdot Dutra (term ends 2029)
 Jean-Marie LeCorre (term ends 2029)

Term renewals (set to expire in 2026, proposal to extend till 2029):

Maria Avramova	Katrien van Tichelen
Igor Bolotnov	Jun Liao
Lane Carasik	Bob Martin
Marilyn Delgado	Guillaume Mignot
Tatli Emre	Jain Prashant
Yassin Hassan	Shanbin Shi
Trevor Howard	Sunming Qin
Lander Ibarra	Rao Vivek
Jon McWhirter	Su-Jong Yoon
Juliana Duarte	Yue Jin
Jun Fang	

We consistently invite and encourage robust participation in division activities. Those eager to contribute to the division in any role are urged to reach out to the division leadership. We particularly advocate for member involvement in activities spearheaded by the Program Committee, as well as other standing committees, webinars, and task forces.

Igor Bolotnov, Professor (NCSU)
 Chair ANS THD Nomination Committee (2025-2026)

Financial Report

Calendar year 2025 concluded with THD in a strong financial position, largely due to a significant contribution from the Nureth-21 meeting. Student support costs include a one-time debit of \$60,000, approved by the THD Executive Committee, to establish a dedicated student support fund. The THD mixer held during the 2025 ANS Annual Meeting in

Chicago essentially broke even financially. Additional revenue came from the Division membership allocation and proceeds from the Annual Meeting.

01/01/2025 Through 12/31/2025		
	Actual	Budget
Revenues		
Revenue - Dues	1421	1442
Revenue - Contributions	28581	0
Revenue - Division Meetings	1580	0
Total Revenues	\$31,582	\$1,442
Expenditures		
Division, Awards/Plaques	1417	1250
Division, National Meeting Costs	887	0
Div. Student Support	64500	3000
Div. Scholarship/NEED	0	1000
Div. Other Expenses	1549	0
Total Expenditures	68353	5250
Total Net Operating Surplus (Deficit)	-36771	-3808
Total Net Surplus (Deficit)	\$(36,771)	\$(3,808)
Fund Balance		
Fund Balance - Beginning	96459	0
Change in Fund Balance	-36771	-3808
Fund Balance - Ending	\$59,688	\$(3,808)

The budget for 2026 assumes similar revenues and expenses as in the previous year, except for Student Support which is increased to \$5500.

2026 Budget for Thermal Hydraulics Division	
	2026 Budget
Balance Forward from Previous Year	\$59,688
Budget Revenue	
Member Dues Allocation	\$1,442
Division Income	\$1,500
Other	
Total Income	\$2,942
Budget Expenses	
Newsletters, Website	
Awards & Plaques	\$1,250
National Meeting Costs	\$1,000
Topical Meeting Costs	
Division Officer Expenses	
Student Support	\$5,500
Future Activity	
Scholarship/NEED Funding	\$1,000
YMG Support	
Other Expenses	\$1,500
Total Expenses	\$10,250
Net	\$(7,308)
Total Year End Funds	\$52,380

Donna P. Guillen (Idaho National Laboratory)
 ANS THD Treasurer