

Minutes from Executive Committee Meeting

American Nuclear Society – Thermal Hydraulics Division

Executive Committee Meeting

Hyatt Regency Atlanta, Atlanta, GA

4:30 – 6:00 PM, Sunday, June 16, 2013

Location: Greenbriar

Attendees: David Aumiller (Vice chair), Igor Bolotnov, Piyush Sabharwall, Baowen Yang, Lane Carasik, Jong Kim, Hisashi Ninokata, Steven Arndt, Philippe Bardet, Elia Merzari, Seungjin Kim, F. Bill Cheung, Kurshad Muftuoglu, Chul-Hwa Song, Francesco D’Auria, Emilio Baglietto, DuWayne Schubring (Treasurer), John Luxat, Takashi Hibiki, Paolo Ferroni, Rui Hu, Fatih Aydogan, Yassin Hassan, Xiaodong Sun (Chair), Si Young Lee (Secretary) (Same order as in the sign-in sheets, which are included as Attachment A.)

1. Opening

Chair Sun called the THD Executive Committee (EC) meeting to order at 4:30 p.m.

2. Approval of Agenda

The proposed meeting agenda was introduced and reviewed. The following item was amended to the proposed agenda: 11.e. IT Support (Pending time permitting)

A motion was made and seconded to approve the amended agenda (Attachment B). The motion passed unanimously.

3. Action Items from 2012 Winter Meeting and Follow-Up Items After 2012 Winter Meeting

a. Current and prospective PC membership (Muftuoglu/Sun)

PC Chair Muftuoglu provided background information about the increased level of THD program activities, including more meeting support, larger number of papers, and therefore more reviews from THD members. As the Division and programmatic activities grow, it becomes necessary to expand the THD PC. He therefore proposed a motion to increase the maximum number of THD PC members to no more than 50 members. The motion was seconded. The motion passed unanimously.

Per a charge by the EC at the 2012 Winter Meeting, PC Chair Muftuoglu then proposed a list of 40 active THD members to be considered as THD PC members. The motion was amended by adding one active member and including four current EC members to the proposed PC member list. The amended motion was then seconded and voted. The amended motion passed unanimously. A list of approved PC members is included in Attachment C.

b. Selection report of NURETH-16 host (J. Kim)

Prof. J. Kim, chair of the THD Conference Selection Committee, reported that three domestic proposals were received to host the NURETH-16 conference in 2015. The Committee evaluated the proposals and based on the evaluation (both the total scores and the scores with the lowest and highest scored excluded for each proposal), a recommendation was forwarded to division chair that the ANS Chicago local section host NURETH-16.

Electronic Approval Prior to 2013 EC Meeting in Atlanta, GA

After 2012 ANS Winter Meeting in San Diego, CA, (and prior to this scheduled 2013 EC meeting on June 16, 2013 at the 2013 ANS Annual Meeting in Atlanta, GA), there were three matters that needed THD EC’s immediate attention. Three motions were made, seconded, and voted by the EC in the spring of 2013 via e-mail. The following provides a record of the voting.

1. Motion: "To request that NURETH-14 organizers designate their \$10,000 donation to ANS for use in the THD-TAA fund."

The motion was moved by Treasurer DuWayne Schubring and seconded by Vice Chair Dave Aumiller. Out of the EC 16 members eligible to vote, 14 members voted to approve the motion with no response from the other two EC members. The motion passed on March 7, 2013.

2. Motion: "To accept the recommendation from the THD Conference Selection Committee to award the NURETH-16 conference to the Chicago local Section"

The recommendation from the THD Conference Selection Committee (or any subcommittee) is considered as a motion that has been seconded. Out of the EC 16 members eligible to vote, 10 members voted to approve the motion, one abstained, and the other 5 members did not respond. The motion passed on March 13, 2013.

3. Motion: "To allocate 2/3 of the CY2013 THD-directed student travel money in 10 slots, each valued at \$150:
1). 5 slots allocated for ANS Annual Meeting -- will be allocated in order of request except for considering all < 24 hours simultaneously. If undersubscribed, remainder of slots go into the NURETH-15 funds (below)
2). 5 slots allocated for NURETH-15 -- will be allocated to oral presentation in order of request except for considering all < 24 hours simultaneously. If undersubscribed, will be allocated to posters in order of request except for considering all < 24 hours simultaneously. If still undersubscribed, remainder of slots go into the ANS Annual Meeting funds (above).
3). A student may only receive a single \$150 unit of support for ANS Annual Meeting and NURETH-15 combined.
4). Treasurer Schubring to draft letter to THD membership based on letter pertaining to ANS Winter Meeting (2012) funding for review and distribution by Chair Sun."

The motion was moved by Treasurer DuWayne Schubring and seconded by Dr. Dave Pointer. Out of the EC 16 members eligible to vote, 13 members voted to approve the motion with no response from the other three members. The motion passed on May 16, 2013.

4. Treasurer's Report

Treasurer Prof. Schubring provided the following THD Treasurer's report as of May 2013.

2013 Income

THD expects to reserve a membership allocation of \$2 per division member during CY2013. Based on the 2012 membership of 1,112, income of \$2,224 is anticipated.

2013 Division Budget (\$5,550)

The following CY2013 budget was approved at the THD Executive Committee meeting at the 2012 Winter Meeting:

- \$1,800 – Awards and Plaques
 - \$1,000 – Technical Achievement Award (cash award)
 - \$500 – Best Paper Award (cash award)
 - \$300 – Plaques
- \$500 – Scholarship (NEED) Funding
- \$3,250 – Student Support
 - \$500 – ANS-directed Student Support for Annual and Winter Meetings
 - \$500 – Donation to the 2013 ANS Student Conference
 - \$2,250 – THD-directed Student Support for Annual and Winter Meetings and NURETH-15

2013 Expenses (\$1,564 as of May 7, 2013)

As of May 7, 2013, the following funds have been distributed (including distributions in process):

- \$64 – Awards and plaques (award for 2012 Young Professional Thermal Hydraulics Research Competition)
- \$500 – Scholarship (NEED) Funding
- \$500 – ANS-directed Student Support for Annual and Winter Meetings
- \$500 – Donation to the 2013 ANS Student Conference

THD Award Account Update

The organizers of NURETH-14 have generously donated \$10,000 to the THD Award Account, bringing the total to **\$25,742**.

Chair Sun thanked the NURETH-14 organizers, Prof. John Luxat, General Chair and his organizing team for the generous support. Per the motion approved by the EC, the funds had been transferred to the ANS TAA account.

After Treasurer’s report, two motions were passed:

Motion 1: Treasurer, Prof. Schubring, proposed that travel support funding for 10 students be allocated to the 2013 Winter Meeting since there was no funding request from the THD student members for the NURETH-15 Conference. A motion was made to change the funding allocation and seconded. The motion passed unanimously.

Motion 2: Donations from the international conferences were requested to deposit into the ANS TAA Award Account, till the account reaches a value of \$40,000 and the value of the TAA is raised to \$2,000. An amendment was proposed and seconded to limit the formal action to just NURETH-15 conference after NURETH-15 financial report becomes available, which Treasurer Schubring accepted as a friendly amendment (modification to his original motion). The amended motion passed unanimously.

Chair Sun thanked the NURETH-15 organizers, Prof. Francesco D’Auria, General Chair and his organizing team for the generous support. Per the motion approved by the EC, the donated funds will be requested to be transferred to the ANS TAA account.

(Note – Following the meeting, the money from NURETH-15 was transferred to THD.)

5. Program Committee Report

a. NURETH-15 Report (D’Auria)

Dr. Francesco D’Auria provided a brief summary on NURETH-15 held in Pisa, Italy, May 12-17, 2013. He provided a brief report about the conference. There were a total of about 460 papers presented and 27 NURETH fellows awarded in the conference. The NURETH fellow award is expected to be continued.

b. 2013 ANS Annual Meeting Program in Atlanta, GA (Muftuoglu)

Program Committee Chair Dr. Muftuoglu provided paper statistics for the 2013 ANS Annual Meeting in Atlanta, GA. There were 7 THD-sponsored sessions. A total of 50 summaries were submitted to these sessions and 10 out of these summaries were rated as “Rejected Unless Revised” based on the reviewer recommendations. A total of 41 summaries are expected to be presented at this Annual Meeting.

c. 2013 ANS Winter Meeting Program in Washington, DC (Muftuoglu)

Program Committee Chair Dr. Muftuoglu reported that the upcoming 2013 ANS Winter Meeting would have 11 technical sessions, including a Panel session on “Highlights of NURETH-15”. The website is open for submission of summary papers, and the deadline for submission has been extended to July 1, 2013.

d. 2014 ANS Annual Meeting Program in Reno, NV (Muftuoglu)

A proposal was made to hold an embedded topical meeting “Advances in Thermal Hydraulics 2014 (ATH’ 14)” at the 2014 ANS Annual Meeting in Reno, NV. The paper format for this meeting will be summary and full-length paper. A motion to the effect of this proposal was made and seconded. The motion passed. Dr. Muftuoglu will propose the ATH’ 14 meeting to the NPC for approval at the Wednesday’s NPC meeting.

Note: At the the Wednesday’s NPC meeting on June 19, the proposal was accepted by the NPC.

e. NUTHOS-10 Report (Ninokata)

Dr. Ninokata mentioned that NUTHOS-10 meeting would be held in Okinawa, Japan (December 10 – 14, 2014). A website for this meeting will be made available soon.

f. NURETH-16 Report (Merzari/Sun)

NURETH-16 Conference was awarded to the Chicago local section. The motion for the conference selection was electronically seconded and voted as mentioned earlier. It was pointed out that the recommendation from the Conference Selection Committee would need to be approved by the EC. NURETH-16 website will be established soon and the conference will be held at Chicago, IL, August 30 – September 4, 2015.

- g. Delegates from MIT made a presentation to the Executive Committee concerning the successful 2013 ANS Student Conference. Student representatives from Penn State University provided a brief plan of the upcoming 2014 ANS Student Conference, to be held April 3 - 6, 2014. Chair Sun congratulated the MIT delegates on the successful meeting and indicated to the Penn State Representatives that THD had always been a strong supporter to the ANS Student Conferences and that the EC would consider supporting the 2014 ANS Student Conference when it approves the budget for CY2014 at the winter meeting.

6. Honors and Awards Committee Report

Dr. Chang Oh, Chair of the HAC, did not attend this meeting. Chair Sun gave the report on his behalf. The recipients of the 2011 and 2012 Technical Achievement Award (TAA) were selected as follows:

2011: Professor John Luxat and 2012: Professor Hisashi Ninokata

Prof. Luxat delivered his TAA lecture at the ATH’ 12 in November 2012. Chair Sun reported that Prof. Ninokata would deliver his TAA lecture at 4:30 pm Tuesday in Room Baker.

Prof. Karen Vierow will be the new HAC Chair at the conclusion of the 2013 ANS Annual Meeting.

7. Nominating Committee Report

Committee Chair Prof. Woods could not attend the meeting, but send his report to Chair Sun prior to the meeting. Prof. Woods proposed some changes to the THD Rule 9.2 and an addition of Rule 9.5.

a. Rule 9.2: Program Committee

Prof. Woods proposed a motion to create a new position within the PC, Assistant Chair/Chair-elect, to help the succession plan of the PC. The Assistant Chair will fill in for the Chair if necessary. The term of the Assistant PC Chair will be three years. The motion was amended by removing “Chair-elect” since there would be no election involved. The amended motion was seconded and voted. The amended motion passed unanimously.

b. Adding Rule 9.5: Conference Selection Committee

Prof. Woods proposed to add the following rule to formalize the THD Conference Selection Committee:

9.5 Conference Selection Committee - Shall be composed of not fewer than eight (8) members who shall be responsible for recommending to the Executive Committee, host organizations for meetings sponsored or co-sponsored by the division.

a. Responsibilities

1. The Conference Selection Committee shall be responsible for soliciting technical meeting proposals and recommending host organizations for division sponsored and co-sponsored technical meetings.

b. Membership

- 1. Members are appointed by the Executive Committee at the recommendation of the Nominating Committee.*
- 2. Members shall serve 4-year terms. At least 2 members shall be added each year to the Committee.*
- 3. The Conference Selection committee will include a minimum of two (2) international members.*

c. Officers

- 1. A Chair shall be appointed by the Executive Committee at the recommendation of the Nominating Committee. To be eligible for appointment as Chair, the member shall have served at least 2 years on the Conference Selection Committee prior.*
- 2. The Chair of the Conference Selection Committee shall serve a two-year term.*

d. Eligibility and Appointment

- 1. Any member of the THD is eligible for Conference Selection Committee membership.*

Two amendments were subsequently proposed to Prof. Woods' motion: 1. Remove "not fewer than" in front of "not fewer than eight (8)..." and 2. Change "Members are appointed" to "Each of the members is appointed." The amendments were seconded and voted to pass unanimously. The amended motion was voted and passed unanimously.

The EC-approved rule changes are attached in Attachment D, which was later forwarded to the ANS National Bylaw and Rules Committee for approval.

c. Nomination of PC Chair and Vice Chair

Prof. Woods on behalf of the Nominating Committee nominated Dr. Xiaodong Sun be PC Chair and Dr. Elia Merzari be PC Vice Chair. The motion was voted and passed unanimously. The PC officer terms and responsibilities are provided in THD Rules Item 9.2. Outgoing PC Chair Muftuoglu was acknowledged by all the THD EC members for his dedicated service to the Division for the past eight years.

d. Nomination of HAC member

Prof. Woods on behalf of the Nominating Committee proposed to nominate Dr. Mujid Kazimi as a new HAC member. The motion was amended by changing the nominee to Prof. John Luxat considering the level of participation in THD programs and activities. A motion was made and seconded to the amendment. The amendment passed with one abstention. The amended motion was voted and passed with one abstention. Prof. Luxat will serve on the HAC for a three-year term.

e. Confirming the Conference Selection Committee members

Prof. Woods on behalf of the Nominating Committee proposed seven members for the THD Conference Selection Committee. They are the current members of the committee. The eighth member will be added at the next EC meeting. The motion was voted and passed with one abstention.

The following is a list of the new officers and members of some committees:

Nominating Committee

Xiaodong Sun (Chair)
David Aumiller
Si Young Lee

Honors and Awards Committee

Karen Vierow (Chair)	2014
Hisashi Ninokata	2015
Brian Woods	2016
Xiaodong Sun	2017
Yassin Hassan	2014

Jong Kim 2015
John Luxat 2016

Program Committee

Xiaodong Sun (Chair) 2016
Assistant Program Committee Chair
Elia Merzari 2016

Conference Selection Committee

Jong Kim (Chair)
Steven Arndt
Qiao Wu
Bob Martin
Randall Gaunt
Yassin Hassan
Mike Podowski

8. Division Website Report.

Dr. Elia Merzari, THD Webmaster, reported that the official website of the ANS Thermal Hydraulics Division is located at <http://thd.ans.org>. The THD committee membership and meeting minutes, conference announcements, newsletters, and awards are all updated as they change throughout each year. All THD members are invited to contact him with any suggestions for improvements, additions, or general comments.

9. Membership Committee Report

EC Chair Sun reported that the Thermal Hydraulics Division had a total of 1,175 paid members as of December 2012. This is up by 63 members (5.7% increase) when compared to the Division's 2011 membership number.

10. Old Business

- a. Reminder of THD special events at this meeting
EC Chair Sun reminded the EC members of "2012 TAA Recipient Lecture" at 4:30 pm Tuesday in Room Baker.
- b. THD Strategic, Tactical and Succession Plans:
EC Chair Sun provided a copy of the updated plan to the EC members for comment (See Attachment E).

11. New Business

- a. 2013 Young Members Advancement Award (Sun)
Chair Sun reported that he had the honor to accept the award on behalf of the Division at the Plenary session of the 2012 Winter meeting. A copy of the plaque was included in the THD 2013 Spring Newsletter. He thanked all the members for supporting young members in the Division.
- b. President Corradini's Major Efforts (Sun)
Chair Sun reported that President Corradini will: 1. Continue to refine the ANS Strategic Plan so that the ANS would be better serve its members; 2. Continue to make the financial planning more transparent and align the resources available to the society's strategic goals; and 3. Enhancing the activities for the ANS Center for Nuclear Science and Technology to better communicate with the public, the media and national leaders and pre-college students.
- c. Discussions on PDC's Young Member Support Task Force Recommendation
A copy of the proposed metrics by the PDC's Young Member Support Task Force was distributed by Chair Sun (Attachment F). It is clear that the THD has been doing most of the proposed activities and will score very well on these metrics. A motion was moved and seconded to authorize Chair Sun to vote yes at Wednesday's PDC meeting on these metrics. The motion passed unanimously.

Note: Due to the lack of quorum and unfavorable comments to the proposed metrics at Wednesday's PDC meeting, no vote was taken on the proposed metrics.

d. Proposed changes to the THD rules (Woods/Aumiller)

See Item 7 above.

e. IT support (Pending time permitting)

This was tabled to the next EC meeting since the meeting overrun.

A motion was moved and seconded to charge the Division's NPC Representative to suggest to the NPC that the paper submission deadlines for the ANS national meetings (Annual and Winter) be extended for one month from the current deadlines. The motion passed unanimously.

The meeting was adjourned at 6:30 pm.

American Nuclear Society – Thermal Hydraulics Division
 Executive Committee Meeting
 Hyatt Regency Atlanta, Atlanta, GA
 4:30 – 6:00 PM, Sunday, June 16, 2013
 Location: Greenbriar

Sign In Sheet

Name	Affiliation	E-Mail	Phone Number
David Ameller	BNPL	David.ameller@empg.co.uk	412-476-6687
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Elis Merzari	ANL	burdet@gwu.edu	415-401-5562
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FERNANDO JAVARI	VMU PISA	deur.ia@ing.unipi.it	734-050-2210-359
EMILIO BAGLIETTO	MIT	emilj@mit.edu	631-327-2965
Dwayne Schubring	Florida	dschubring@uf.edu	352-392-1401x319
Jonas Luxon (observer)	McMaster University	luxonj@mcmaster.ca	905-525-9140 ext 24630
TAKASHI HIBIKI	Purdue University	hibiki@purdue.edu	(765) 496-9033
PAOLO FERRONI	WFSINGHOUSE	ferrop@wfsinghouse.com	357-222-3331
Rui Hui	ANL	ruihui@anl.gov	630-252-1461
Fatih Aydogan	University of Idaho	fatih@uidaho.edu	412-818-2067
Yassin Hassan	Texas A&M Univ.	Y.hassan@tamu.edu	979-845-7990
Xiaodong Sun	Ohio State Univ.	Sun.2.dp@osu.edu	(614) 247-7646
Si Young Lee	Savannah River National Lab	si.lee@srnl.doe.gov	(803) 795-8862

PROPOSED AGENDA
American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
Hyatt Regency Atlanta, Atlanta, GA
4:30 – 6:00 PM, Sunday, June 16, 2013
Location: Greenbriar

1. Opening (Sun)
2. Approval of Meeting Agenda (All)
3. Action Items from 2012 Winter Meeting
 - a. Current and prospective PC membership (Muftuoglu/Sun)
 - b. Selection report of NURETH-16 host (J. Kim)
4. Treasurer's Report (Schubring)
 - a. 2013 Division Financial Status: Update
 - b. Student Support Expenditures
5. Program Committee Report
 - a. NURETH-15 Report (D'Auria)
 - b. 2013 ANS Annual Meeting Program in Atlanta, GA (Muftuoglu)
 - c. 2013 ANS Winter Meeting Program in Washington, DC (Muftuoglu)
 - d. 2014 ANS Annual Meeting Program in Reno, NV (Muftuoglu)
 - e. NUTHOS-10 Report (Ninokata)
 - f. NURETH-16 Report (Merzari/Sun)
6. Honors and Awards Committee Report
 - a. Committee Membership (Woods/Aumiller)
 - b. Status of THD Honors and Awards
7. Division Website Report (Merzari)
8. Nominating Committee Report (Woods)
 - a. Nomination and confirmation of the next PC chair and assistant chair
9. Membership Committee Report (Woods)
10. Old Business (All)
 - a. Reminder of THD special events at this meeting
 - b. THD Strategic, Tactical and Succession Plans (Sun)
11. New Business (All)
 - a. 2013 Young Members Advancement Award (Sun)
 - b. President Corradini's Major Efforts (Sun)
 - c. Discussions on PDC's Young Member Support Task Force Recommendation
 - d. Proposed changes to the THD rules (Woods/Aumiller)
 - e. IT support (Pending time permitting)
12. Others

Thermal Hydraulics Division – Program Committee

Current membership is as follows (At the conclusion of the 2013 ANS Annual Meeting):

Chair: Xiaodong Sun (term begins in June 2013, ends June 2016)
Vice-chair: Elia Merzari (term begins in June 2013, ends June 2016)
Secretary: same as EC secretary

Membership (The following 45 individuals were approved by the THD EC at its June 2013 meeting):

Arndt, S. (2016)	Marcum, W. (2016)
Aumiller, D. (2016)	Martin, R. (2016)
Baglietto, E. (2016)	Merzari, E. (2017)
Bajorek, S. (2016)	Muftuoglu, K. (2016)
Bilbao y Leon, S. (2016)	Ninokata, H. (2016)
Cheng, Xu (2016)	Oh, C. (2016)
Cheung, F. B. (2016)	Podowski, M. (2016)
Choe, W. (2016)	Pointer, D. (2016)
Collins, B. (2016)	Rempe, J. (2016)
D'Auria, F. (2016)	Revankar, S. T. (2016)
Ferroni, P. (2016)	Riznic, J. (2016)
Frepoli, C. (2016)	Sabharwall, P. (2016)
Gauntt, R. (2016)	Saha, P. (2016)
Guillen, D. (2016)	Schubring, DW (2016)
Hassan, Y. A. (2016)	Song, C.H. (2016)
Hibiki, H. (2016)	Suh, K. Y. (2016)
Hu, R. (2016)	Sun, X. (2016)
Kim, J. H. (2016)	Todd, D. R. (2017)
Kim, S. (2016)	Tzanos, C. (2016)
Lane, J. (2016)	Vierow, K. (2016)
LeCorre, J-M (2016)	Woods, B. (2016)
Lee, S. Y. (2016)	Yang, B-W (2016)
Luxat, J. (2016)	

Appendix D

The following changes/additions to the THD Rules have been approved by the THD EC at the June 15, 2013 meeting.

Note: The ~~strikethrough~~ means to be deleted while the **red** means to be added.

R9 - Standing and Special Committees

9.2 Program Committee

b. Membership:

1. The Program Committee shall be composed of not less than five and no more than ~~twenty-seven~~ **(27) fifty (50)** members, of which three members shall be the Vice-Chair of the Division, the Chair of the Division and the immediate past Chair of the Division.

c. Officers:

1. The Program Committee officers include a Chair, **an Assistant Chair**, and a Secretary. The Division Secretary serves as Program Committee Secretary. The term of the Program Committee Chair is for three (3) years. **The term of the Assistant Program Committee Chair is for three (3) years.** A term extension of up to two (2) years may be granted prior to the chair's **or Assistant Chair's** term expiration.

2. The **Chair** shall have the overall supervision of the Program Committee. He/she will be responsible for an effective liaison with the Executive Committee and the Nominating Committee.

3. The ~~secretary~~ **Assistant Chair** will fill-in for the Chair as necessary **and assist the Chair in conducting the duties of the office.**

4. The ~~s~~**S**ecretary will keep a record of the proceedings of the Program Committee in each meeting, write the minutes and distribute them to Program Committee members within thirty (30) days after each meeting. A cumulative set of these minutes are posted on the THD website. The Secretary will also maintain a cumulative file (tabular form) of attendance and screen members for good standing (see THD R9 2.b.5).

d. Eligibility and Election:

1. The elections of the Program Committee Chair **and the Program Committee Assistant Chair** will be made by the Executive Committee on the basis of its Nominating Committee recommendations (see THD R9 2.b.4).

2. As noted above in (c), the ~~s~~**S**ecretary of the Executive Committee shall also serve as ~~s~~**S**ecretary of the Program Committee.

9.5 Conference Selection Committee - Shall be composed of eight (8) members who shall be responsible for recommending to the Executive Committee host organizations for meetings sponsored or co-sponsored by the division.

a. Responsibilities

1. The Conference Selection Committee shall be responsible for soliciting technical meeting proposals and recommending host organizations for division sponsored and co-sponsored technical meetings.

b. Membership

1. Each of the members is appointed by the Executive Committee at the recommendation of the Nominating Committee.

2. Members shall serve 4-year terms. At least 2 members shall be added each year to the Committee.

3. The Conference Selection committee will include a minimum of two (2) international members.

c. Officers

1. A Chair shall be appointed by the Executive Committee at the recommendation of the Nominating Committee. To be eligible for appointment as Chair, the member shall have served at least 2 years on the Conference Selection Committee prior.

2. The Chair of the Conference Selection Committee shall serve a two-year term.

d. Eligibility and Appointment

1. Any member of the THD is eligible for Conference Selection Committee membership.

~~9.5~~ 9.6 Other Standing Committees - Additional standing committees (e.g., Scholarship Committee, Public Policy Committee, Education Committee, and Publications Committee) may be established by the Executive Committee. Special committees may be established from time to time by the Chair, subject to authorization by the Executive Committee; these shall be dissolved upon completion of the duties assigned to them.

ANS THERMAL HYDRAULICS DIVISION 2010-2014 Operational Plan

The primary mission of the Thermal Hydraulics Division is to advance Thermal-Hydraulic engineering and science related to the nuclear power industry. In accomplishing this mission, the THD has the goals to promote high quality technical publications and presentations relating to nuclear Thermal-Hydraulics and to establish, stimulate, and maintain quality technical and professional approaches in the areas of Nuclear Thermal Hydraulics. The 2005-2009 Operational Plan was submitted to the PDC in 2005. The succeeding 5-year plan is documented herein.

Goals:

The Division has established and approved a strategy that supports the following ANS National Goals:

- ANS will be the recognized leader for the advancement of nuclear science and technology (NS&T).
- ANS will be members' primary resource for professional development and knowledge exchange.
- ANS will be publicly recognized as a credible source of nuclear science and technology information.
- ANS will be an active contributor to, and participant in, nuclear science and technology public policy issues.
- ANS will be an organization that is flexible, responsive to members and capable of dealing with change.

Trends

- The number of Division members was 1,175 in 2012, up 5.7% from 1,112 in 2011. Membership has increased by 13.6% in the past 3 years, from 1,034 in 2009.
- THD continues to contribute high quality technical papers to both Topical and National and represents a significant fraction of the papers that are contributed to National Meetings (over 30 papers at winter and annual meetings since 2005, except in 2008).
- Non-U.S. participation in Division Topical Meetings continues to be strong with non-U.S. /non-Italian attendance of 77.9% at NURETH-15, held in Pisa, Italy (May 2013).
- The CY2012 Division Vitality Measures are included as Appendix A.

Resource Requirements

- The Division's financial requirements continue to be adequately met through 1) income from Topical Meetings and 2) the ANS Member Allocation.
- The Thermal Hydraulics Division enjoys a continuing good supply of human resources for governance and technical program activities. The Officer/Committee structure and Succession Plan are included as Appendix B.

THD One-Year Tactical Plan for 2013 (July 2012 through June 2013)

<u>Initiative</u>	<u>Status</u>
1. Nominate a THD representative for ANS Young Member Group.	Complete. THD YMG representative nominated (Dr. Brian Collins).
2. Organize at least five sessions at each national meeting	Complete. Exceeded by organizing 5 sessions at the 2010 Annual Meeting, 12 sessions at the 2010 Winter Meeting, 9 sessions at the 2011 Annual Meeting, 9 sessions at the 2011 Winter Meeting, 7 sessions at the 2012 Annual Meeting, 6 sessions at the 2012 Winter Meeting, and 7 sessions at the 2013 Annual Meeting. Proposed 11 for Nov. 2013.
3. Support NURETH-14 topical meeting in 2011 as a Class II meeting	Complete. NURETH-14 was held in Toronto, Canada in Sept. 2011.
4. Support NURETH-15 topical meeting in 2013 as a Class II meeting	Complete. NURETH-15 was held in Pisa, Italy in May 2013.
5. Support NURETH-16 topical meeting in 2015 as a Class I meeting	In progress. NURETH-16 will be held in Chicago, IL in Aug.-Sept. 2015.
6. Support NUTHOS-9 topical meeting in 2012 as a Class IV meeting	Complete. NUTHOS-9 was held in Kaohsiung, Taiwan in September 2012.
7. Support NUTHOS-10 topical meeting in 2014 as a Class IV meeting	In progress. NUTHOS-10 will be held in Okinawa, Japan in December 2014.
8. Support embedded Advances in Thermal Hydraulics at the ANS 2012 Winter Meeting as a Class III topical	Complete. ATH'12 was held in November 2012 in San Diego, CA.
9. Implement spending plan budget plan for sustainable THD operation	Complete. 5-year budget plan was proposed in 2008 by an ad hoc committee chaired by Dr. Vierow and was approved by THD EC.
10. Encourage publication of THD member's papers in Nuclear Technology and other journals devoted to TH topics or a recent THD co-sponsored topical meeting	In Progress. Nuclear Engineering and Design (NED), Journal of

	Computational Multiphase Flows, etc., featured NURETH-14 papers in 2012. Nuclear Technology, NED, etc., will feature NURETH-15 papers in 2013/2014.
11. Contribute to ANS National Student Conference	Complete. Donated \$500 to 2013 Student Conference.
12. Contribute to NEED/ANS scholarships	Complete. Donated \$250 to each fund in 2012 (\$500 total).
13. Contribute to ANS for student travel support to national meetings	Complete. Donated \$250 each to the 2012 Annual and Winter Meetings (\$500 total). Donated \$250 each to the 2013 Annual and Winter Meetings (\$500 total).
14. Cover ANS THD Honors and Awards costs	Complete. Paid \$1000 for TAA award and \$500 for Best Paper award.
15. Sponsor at least one THD member selection to ANS Fellow grade	Ongoing.
16. Nominate THD member as Board of Directors candidate	Complete. Nomination submitted to ANS
17. Select the recipient of the THD Technical Achievement Award	Complete. 2011 and 2012 TAA recipients were selected and presented at the 2012 ANS Winter Meeting.
18. Present THD Best Paper Award to deserving candidate from past year	Complete. Presented at the 2012 ANS Winter Meeting.
19. Issue two THD newsletters	Complete. 2012 Spring and Fall Newsletters were submitted.
20. Use broadcast e-mail to communicate upcoming THD special sessions and topical meetings	Continuous.
21. Update succession plan for THD governance	Completed. (issued in 2005 and updated in 2012, see Appendix B)
22. Update THD web page.	Ongoing. Website currently up to date.

THD Five-Year Strategic Plan for 2010-2014

The Division has established and approved a 5-year Goals document with strategies to support the ANS National Goals. As needed, each strategy is assigned a Division member (usually a Division officer or Executive Committee member), and the status is reviewed at each National Meeting. The following is a summary of these strategies:

- Increase international collaboration by nominating foreign members to the THD Executive Committee and by appointing non-U.S. members to the THD Technical Program Committee.
- Maintain at least 40% non-U.S. participation in THD Topical Meetings and increase non-U.S. participation in ANS National Meetings.
- Support ANS national meetings by organizing three standard sessions and at least two special sessions (including panel sessions) per national meeting and by sponsoring a THD Best Paper Award.
- Sponsor a Thermal Hydraulics Topical Meeting every 2-3 years with an international host at least every other meeting.
- Co-sponsor other Topical Meetings with compatible Divisions as appropriate.
- Interface with the ANS Local Sections during the ANS national meetings to ensure high quality of Topical Meetings.
- Improve the ability of the Division to serve students in thermal hydraulics by contributing from THD funds (NEED/ANS Scholarships).
- Support ANS Student National Conferences and student attendance at National and Topical Meetings by making contributions from THD funds.
- Encourage student participation in THD activities.
- Nominate one student members to THD Executive Committee.
- Encourage Young Member participation in THD activities.
- Support the Young Member Group by serving as Technical Division sponsor of YMG-organized technical sessions.
- Honor ANS members for outstanding achievements in thermal hydraulics by encouraging application submittal, supporting application review, nominating candidates, and selecting the recipient of the THD Technical Achievement Award.
- Encourage nominations to ANS Fellow by preparing a list of potential candidates and reviewing it annually.
- Announce all awards available to THD members in the THD Newsletter.
- Increase the use of electronic communications in order to improve information exchange among members and reduce costs of carrying out THD activities.
- Establish and maintain a current, relevant and responsive THD web site that encourages communication among THD members.
- Encourage publication of ANS journal articles based on appropriate presentations at ANS Topical and National Meetings.
- Maintain a high technical standard for the quality of ANS publications.
- Provide thermal hydraulics technical expertise as needed to support the ANS National Goals.

APPENDIX A
Professional Division Metrics
THD Vitality Measures – 2013

Division Meetings	Division Governance	Division Contributions to Society	Division Services to Membership
National Meeting Participation 2012 Annual: 7 sessions 2012 Winter: 6 sessions 2013 Annual: 7 sessions	Succession Planning Plan updated 2009 Reviewed and updated 2010, 2011, 2012	ANS Position Statements THD is not responsible for Position Statements	Professional Development Conducted 7 pre- and post-conference workshops at NURETH-15 in Pisa, Italy (May 2012)
Class I, Class II Topicals NURETH-13 Topical Oct. 2009 NURETH-14 Topical, Sep. 2011 NURETH-15 Topical, May 2013 NURETH-16 Topical, Aug. - Sept. 2015	Membership Trends 925/962 mbrs +4.0% change 2006 962/993 mbrs +3.2% change 2007 993/1022 mbrs +2.9% change 2008 1022/1034 mbrs +1.2% change 2009 1034/1129 mbrs +9.2 change 2010 1129/1112 mbrs -1.5% change 2011 1112/1175 mbrs +5.7% change 2012	Participation with Outside Professional Societies NURETH-13 with Atomic Energy Society of Japan (2009) ASME Liaison maintained Int'l Heat Transfer Conf w/ASME (2010) NURETH-14 with Canadian Nuclear Society (2011) NUTHOS-9 with Chung-Hwa Nuclear Society, Taiwan (2012) NURETH-15 with	Scholarships Supported ANS NEED and Scholarship Funds in 2012
Class III Topicals ATH'12 Embedded Topical, Nov. 2012	Communications 2 newsletters in 2012 Website updated in 2012	Society Leadership 4 of 4 PDC & NPC Both Mtgs.: 100% Exec Comm. Presentation to BOD Nov. 2011	Peer Recognition/Awards Awarded Tech Achievement, Best Paper awards, Fellow nominations
	Division Planning Strategic Plan reviewed and	Non-Meeting Publications NURETH-13 papers published in special editions of NT, NED, and	Student Support 2012 Student Conference 2012 Annual Mtg Student Travel

	<p>updated in 2012 for 2010-2014. Tactical Plan updated in 2012</p>	<p>NET in 2010/2011.</p> <p>NURETH-14 papers published in special editions of NED and Int. J. of Comp. Multiphase Flow in 2012. THD members served as guest editors</p>	<p>2012 Winter Mtg Student Travel</p> <p>ATH'12 Topical Student Travel</p>
		<p>Division's Commitment to YMG</p> <p>Sponsored Technical Division for session in Young Professionals Congress (2009).</p> <p>Conducted "Young Professional T-H Research Competition" in 2012.</p> <p>Co-Sponsoring three technical sessions with YMG for 2013 Winter Meeting.</p> <p>Awarded Young Members Advancement Award by ANS</p>	

APPENDIX B

THD Office/Committee Structure and Succession Plan

<u>Office</u> ⁽¹⁾	<u>2008-2009</u>	<u>2009-2010</u>	<u>2010-2011</u>	<u>2011-2012</u>	<u>2012-2013</u>
Chair	C. Oh	K. Vierow	H. Ninokata	B. Woods	X. Sun
Vice-Chair	K. Vierow	H. Ninokata	B. Woods	X. Sun	D. Aumiller
Treasurer	K. Suh	X. Sun	D. Aumiller	S. Y. Lee	D. Schubring
Secretary	H. Ninokata	B. Woods	X. Sun	D. Aumiller	S. Y. Lee
<u>Committee</u>					
Technical Program					
Chair	K. Muftuoglu	K. Muftuoglu	K. Muftuoglu	K. Muftuoglu	K. Muftuoglu
Secretary	H. Ninokata	B. Woods	X. Sun	D. Aumiller	S. Y. Lee
Honors & Awards ⁽²⁾					
Chair	Y. Hassan	R. Martin	J. Rempe	S. Revankar	C. Oh
Web Page	R. Martin	D. Schubring	D. Schubring	D. Schubring	D. Schubring / E. Merzari
Newsletter	H. Ninokata	B. Woods	X. Sun	D. Aumiller	S. Y. Lee
Nominating ⁽³⁾	S. Revankar	C. Oh	K. Vierow	H. Ninokata	B. Woods
Membership	R. Martin	C. Oh	K. Vierow	H. Ninokata	B. Woods

(1) Candidates selected by Nominating Committee, preferably selected from the then current Executive Committee or Technical Program Committee.

(2) This committee includes the last four chairs of the THD and three members that are elected by this subcommittee. It is chaired by the least immediate past division chair.

(3) This committee includes the immediate past division chair, the current chair and the current vice-chair of the THD. It is chaired by the immediate past division chair.

APPENDIX C PRIOR YEAR'S ONE-YEAR TACTICAL PLAN

THD One-Year Tactical Plan for 2012 (July 2011 through June 2012)

<u>Initiative</u>	<u>Status</u>
1. Nominate a THD representative for ANS Young Member Group.	Complete. THD TMG representative nominated.
2. Organize at least five sessions at each national meeting	In progress. Exceeded by organizing 5 sessions at the 2010 Annual Meeting, 12 sessions at the 2010 Winter Meeting, and 9 sessions at the 2011 Annual Meeting. Proposed 9 for November 2011.
3. Support NURETH-14 topical meeting in 2011 as a Class II meeting	Complete. NURETH-14 was held in Toronto, Canada in Sept. 2011.
4. Support NURETH-15 topical meeting in 2013 as a Class II meeting	In progress. NURETH-15 will be held in Pisa, Italy, May 2013.
5. Prepare conference site selection for NURETH-16 in 2015	To be initiated
6. Support NUTHOS-9 topical meeting in 2012 as a Class IV meeting	In-progress. To be held in September 2012 in Taiwan.
7. Support embedded Advances in Thermal Hydraulics at the ANS 2012 Winter Meeting as a Class III topical	In-progress. To be held in November 2012 in San Diego, CA.
8. Implement spending plan budget plan for sustainable THD operation	Complete. 5-year budget plan was proposed in 2008 by an ad hoc committee chaired by Dr. Vierow and was approved by THD EC.
9. Encourage publication of THD member's papers in Nuclear Technology and other journals devoted to TH topics or a recent THD co-sponsored topical meeting	Complete. Nuclear Technology, Nuclear Engineering & Design and NET featured NURETH-13 papers in 2010/2011.
10. Contribute to NEED/ANS scholarships	Complete. Donated \$250 to each fund in 2011.
11. Contribute to ANS for student travel support to national meetings	Ongoing. Included in budget.
12. Cover ANS THD Honors and Awards costs	Ongoing. Included in budget.
13. Sponsor at least one THD member selection to ANS Fellow grade	Ongoing.
14. Nominate THD member as Board of Directors candidate.	Ongoing.
15. Select the recipient of the THD Technical Achievement Award	Ongoing. To be presented at the 2012 ANS Annual Meeting.
16. Present THD Best Paper Award to deserving candidate from past	Ongoing. To be presented

year	at the 2012 ANS Annual Meeting.
17. Issue two THD newsletters	Ongoing. Spring 2011 newsletter submitted. Fall 2011 newsletter in development.
18. Use broadcast e-mail to communicate upcoming THD special sessions and topical meetings	Continuous.
19. Update succession plan for THD governance	Completed. (issued in 2005 and updated during in 2011, see Appendix B)
20. Update THD web page.	Ongoing. Website currently up to date.

Date: June 15th 2013

**Recommendations for Metrics & Measures reflecting Division Support of Young Members (rev. 3) -
Result of YMG metric task force and subsequent discussions**

A task force composed of a subset of the Professional Divisions Committee has proposed the following criteria for evaluating Division support of ANS Young Members as one facet of overall Division Performance metrics and measures. The current measures in this area generally been deemed inflexible or otherwise do not capture the variety of ways that Young Members can contribute to, or be supported by, an individual Division. The current Division Performance metrics are

- **YMG petition**
Request that each Division and Technical Group identify means by which the YMG can support that Division's or Group's efforts to encourage young professionals to participate in the activities of the Society at all levels
- **Evaluation Scales for Indicator (4 levels):**
Green: supported at least one YMG activity within the last year
White: supported at least one YMG activity within the last two years
Yellow: supported at least one YMG activity but not within the last two years
Red: Has never supported a YMG activity
- For this measure, a YMG activity cannot be a technical session at a national meeting or topical meeting.

The Task Force identified three general areas of support with examples that Divisions can use to encourage YM involvement. Many of these were drawn from existing Division practices and have already been implemented. The three criteria to evaluate YMG support are as follows:

First Criterion: Participation of the Program Committee of the division in the YMG Executive committee meetings. The Chair of each division's Program Committee is responsible for interaction with YMG but may delegate or appoint a liaison. The Program chair, or the appropriate delegate/liaison, is to be present at the YMG executive committee meeting scheduled for each ANS annual meeting and ANS winter meeting.

Second Criterion: Support of young members in the division's program committee. Each division should provide evidence of at least two actions in the list A1-A4 in Table I.

Third Criterion: Support of young members in the division's governance. Each division should provide evidence of at least one action in the list B1-B3 in Table I.

We propose that the YMG support metric be evaluated as follows:

- **Green:** All three criteria are met;
- **White:** Two out of three criteria are met;
- **Yellow:** Only One out of three criteria is met;
- **Red:** None of the three criteria are met.

Some activities that can be counted against these criteria are shown in the following table. This list should not be construed as exhaustive.

TABLE I. Current or Proposed Activities that count as a measure of Division Support of Young Members

ID	Area	Action
A1	Program	At least 1 session or 15 % of the sessions (whichever is greater) at Division/TG-sponsored topicals or national meeting tracks held that year are chaired/co-chaired, or organized by Young Members.
A2		Conduct a competition for young members in an area appropriate to the Division.
A3		Implement at least 3 actions to encourage employers to support young members' participation at ANS national meetings .
A4		At least 5% of paper reviews at Division/TG-sponsored topical or national meeting tracks held that year are completed by young members
B1	Governance	At least one young member serves on the Executive Committee
B2		At least two young members are on the ballot for Executive Committee /Office positions
B3		Young members lead or contribute significantly to at least two governance tasks (like the newsletter), that can be documented. These may include, but are not limited to, the following: <ul style="list-style-type: none"> - Division Newsletter (articles, layout and editing) - Division website (development or maintenance) - Liaison: drafting minutes for the EC, PC, or other committees or serving as the division's ex officio liaison to the Public Information Committee - Coordinate division reviews of ANS Policy Statements (divisions should expect many more of these to be coming - the PPC is ramping up) - Coordinate reviews of ANS Communications products (these will be coming with greater frequency too – the PIC continues to modify its focus) - Maintain division specific data or databases, such as maintaining a database of division membership statistics for example. - Coordinate student engagement activities such as providing President's Reception tickets to students who submit papers

Notes:

- Item A3 refers to actions implemented by OPD. The OPD program committee sends term letter to encourage employer support. Ideally other divisions should implement similar programs. Program and Division chairs are encouraged to contact OPD for more information.
- Items B1 and B2 may seem identical. They were put separately to offer different options to current divisions to meet the third criterion. If a division has already a young member on the EC or as an officer the third criterion is met (it satisfies B1). If over this is not true the division has the option to put a young member on the ballot (option B2) for that year.
- The numerical goals described in Item A1 and A4 should be rounded up to the closest integer.
- To track item A4 it is suggested that HQ implement a young member self-identification feature in the paper review system.