

Minutes of the Executive Committee Meeting

**Thermal Hydraulics Division
2009 American Nuclear Society Winter Meeting
Omni Shoreham Hotel, Washington, DC
5:00 – 7:00 p.m., Sunday, November 15, 2009
Congressional A**

Attendees: Jong Kim, Bob Martin, Chang Oh, Cheng Xu, John Luxat, Bill Cheung, Kune Suh, Seungjin Kim, Yassin Hassan, Joy Rempe, Theron Marshall, David Aumiller, Steve Bajorek, Steven Arndt, Brian Woods, Xiaodong Sun, Kurshad Muftuoglu, Karen Vierow (Chair), Hisashi Ninokata, Elia Merzari, DuWayne Schubring, and Randall Gauntt (same order as in Attachment A).

1. Opening

Karen Vierow called the THD Executive Committee Meeting to order at 5:20 p.m.

2. Approval of Meeting Agenda

The meeting agenda (Attachment B) was introduced and approved.

Before proceeding to Item 3, Karen Vierow invited the University of Michigan Student Conference Delegation to speak and present an update on preparations for the 2010 ANS Student Conference. As part of the discussion the student conference delegation requested the following items of support from the Thermal Hydraulic Division and its members:

1. Financial support,
2. Volunteers for technical session chairs, and
3. Technical session judges.

Following the student conference delegation presentation, Karen Vierow honored Chang Oh for his service to the division over the past year as the Chair of the Thermal Hydraulic Division and made a presentation of a plaque to him.

3. Minutes from June 2009 Annual Meeting

The meeting minutes from the June 2009 Annual Meeting in Atlanta, GA (Attachment C) were approved. A motion was passed to remove the review of previous meeting minutes from future Executive Committee Meeting Agendas since the minutes of the Executive Committee Meetings are approved via email within 30 days of each meeting.

4. Action Items from June 2009 Annual Meeting

a. Conference Selection Committee (Vierow)

The Conference Selection Committee currently consists of Jong Kim (Chair), Mike Podowski, Randall Gauntt, Steve Arndt and Qiao Wu. The benefits of additional members were discussed at the June 2009 Annual Meeting. Yassin Hassan and Bob Martin have expressed their willingness to serve on the committee. A motion to approve the addition of Yassin Hassan and Bob Martin to the Conference Selection Committee was passed unanimously. This successful motion brings the committee to seven members.

Action: Closed.

b. NURETH-14 Planning (Luxat)

Update for NURETH-14 planning was made during the Program Committee Meeting.

c. NUTHOS-8 Planning (Xu)

Update for NUTHOS-8 planning was made during the Program Committee Meeting.

d. NURETH-15 and beyond (Vierow)

Although NURETH-15 is not until 2013, the division is already being approached by potential host organizations and thus it is not too early to get the call out for soliciting the host organization. Any call should go out to all ANS sections. There was some discussion that the future host should be an organization that is active in the thermal hydraulic division and its meetings. Due to the current rotation plan, a European site would be in line to host NURETH-15. However, the solicitation should be sent out to all chapters and the specifics of the rotation plan should not be called out in the solicitation

Several related discussion threads ensued. The first being a discussion of the need for income sources for the division. Currently, NURETH meetings in the US fill the role as a large income source for the division. Stand alone topical meetings as well as embedded topical meetings were suggested as potential additional sources of income. One disadvantage of an embedded topical that was mentioned is the risk of taking away presentations from the regular ANS meeting.

The second discussion concerned the possibility of holding NURETH every year instead of every other year. ICAPP and ICONE were used as examples of

meetings that are held every year. The argument for holding NURETH every year is the importance of engaging emerging nuclear countries in Asia and the recognition that a NURETH meeting every eight years in Asia might be too long for that purpose. Disadvantages for holding NURETH every year such as the potential negative impact on NUTHOS and the potential for diluting the quality of the NURETH meeting were presented.

Action: Issue solicitation for NURETH-15 Host Organization. (Vierow)

Action: Collect data to determine if there is a market for a NURETH meeting every year. Data of interest include the number and quality of NURETH-15 proposals as well as the number of papers and paper submission trends for NURETH-14 and 15. (Jong Kim—Conference Selection Committee)

Action: Prior to the June 2010 meeting, examine the issues around the sponsorship of an embedded topical in 2012. This discussion should include potential topics, logistics, location, time of year, etc. (Jong Kim—Conference Selection Committee)

Action: Discuss logistics of THD-sponsored embedded topical meeting in 2012 with Mary Keenan of the National Program Committee. (Muftuoglu)

e. NUTHOS-9 Planning (Vierow)

NUTHOS-9 is scheduled to be held in 2012 so it's time to start soliciting bids for hosts.

Action: Begin solicitation process for NUTHOS-9 host by making announcement on the division website. (Vierow)

f. 2009ANS Winter Meeting Program in Washington DC (Muftuoglu)

Update for the 2009 ANS Winter Meeting Program was made during the Program Committee Meeting.

g. Finalization of division rules/procedures (Vierow)

The Professional Divisions Committee requested that revision of division rules be completed by the end of 2009. In 2007 the division rules were updated and provided to the National By-laws and Rules Committee for review. The review was completed in 2008. Vierow will incorporate comments into rules draft by end of 2009. No action was required on division by-laws.

Action: Incorporate comments into division rules update draft and submit to the National Professional Divisions Committee. (Vierow)

Action: Distribute updated rules when complete and by-laws to Executive Committee members. (Vierow)

5. Treasurer's Report

A printed copy of the Treasurer's report (Attachment D) dated 11/15/2009 was distributed along with the divisional account spreadsheet (Attachment E). Based on the financial report as of August 31, 2009, the total revenue for 2009 was \$24,951 (including carry-forward from 2008), and the total expenses were \$6,071, leaving the division a balance of \$18,880. Several other expenses for 2009 not included in the financial report amount to approximately \$1,650. The expected balance at the end of 2009 for the Thermal Hydraulic Division general funds is approximately \$17,230.

The TAA endowment funding was discussed. The balance in this endowment is \$3,334 as of 9/30/2009. To be fully endowed the account will need a balance of \$20,000. Until that occurs general division funds will be used to pay for the TAA. Since donations from overseas organizations cannot be used to fund the division's general accounts, they will be used to fund the TAA endowment. Using this mechanism, approximately \$12,000 will be donated from NURETH-13 to the TAA endowment account. Many thanks to the NURETH-13 organizers!

The budget proposal for 2010 was discussed along with projected division funding levels through 2013 and beyond. Divisional budget forecasts are shown in Attachment E. Of note is the forecast that for 2010-2012 the only funding for the division's general accounts will be from the membership allocation. Donations from the next two NURETH meetings will most likely be used to endow the TAA.

For 2010, an expense budget of \$5,300 was proposed including \$2,500 for the 2010 Student Conference. Discussion ensued concerning the level of funding for the 2010 Michigan Student Conference. The observation was made that the past Student Conference organizers have raised an adequate amount of resources and the question was asked if there is a better use of the funding from the division's perspective. A motion to maintain the spending level in 2010 the same as in 2009, at \$5,300, passed unanimously. Based on the discussion of student conference funding levels, a motion was made to amend the division's funding to \$2,000 for the 2010 Student Conference (\$2,500 were provided to the 2009 University of Florida Conference) and provide \$500 targeted to student support that will be identified at the next Executive Committee Meeting. This motion to amend the budget passed with two votes against and no abstentions.

There was some discussion on the prospects of setting up a second endowment with the national—for our best paper award. The consensus was that this may be something to pursue when we get closer to fully funding our TAA endowment.

Action: Identify recipient(s) of \$500 general student support for 2010. (Vierow)

6. Program Committee Report

The following committee reports have been conducted during the Program Committee Meeting. There is nothing new to report.

- a. NURETH-13
- b. NURETH-14
- c. 2009 ANS Annual Meeting Report, Atlanta, GA
- d. 2010 ANS Annual Meeting Program in San Diego, CA

7. Honors and Awards Committee Report (Martin)

- a. Solicitation for TAA

There is one TAA package carryover from 2009. Please provide nominations for additional candidates to the Honors and Awards Committee.

- b. Best Paper Award

The Honor and Awards Committee calls on the NURETH-13 organizers to provide information on potential best paper candidates. There was some discussion as to current makeup of the Honor and Awards Committee which nominally consists of seven members. The committee currently consists of the last four division chairs plus Jong Kim, Jovica Riznic, Bill Cheung and Yassin Hassan. A suggestion was made that the website should be updated each year to reflect changes in officer and committee assignments.

Action: Website should be updated to reflect current officers and committee membership. (Schubring)

- c. Young Professional Thermal Hydraulics Research Competition

Nothing to report.

- d. New Fellow nomination

Hisashi Ninokata was congratulated upon his having become a new ANS Fellow at the current meeting.

8. Nominating Committee Report

The 2009 Executive Committee membership and officers were reviewed. The Nominating Committee proposed the following slate for the 2010 officers and new Executive Committee members.

Chair

Hisashi Ninokata

Vice Chair

Brian Woods

Secretary

Xiaodong Sun

Treasurer

David Aumiller

New Executive Committee members

Si Young Lee (3 years)

Steven Arndt (3 years)

9. Membership Committee Report

From 2008 to 2009 there was a 10% increase in membership from 1055 to 1099. There are currently 185 student members.

10. Old Business

- a. Memorial distinguished speaker series for Professor Hochreiter.

The first engagement of the series occurred earlier this year. It was reported that fund is fully endowed. The Thermal Hydraulic Division made a onetime contribution of \$2,500 to the endowment. The division should be receiving regular announcement of speakers in the future.

- b. Reminder of THD special events.

This item was covered in the Program Committee Meeting.

11. New Business

a. Division Report to the Board of Directors

Slides outlining the presentation to the National Board of Directors were distributed and discussed. The division is doing quite well with a large number of “green boxes”.

b. Plans for division website

Plans for the modernization and cleaning up of the division website were discussed. The website will be updated to reflect the current membership of the Honors and Awards Committee. Program Committee membership on the website will be updated as well.

Action: Provide list of current Program Committee members to the webmaster.
(Muftuoglu)

12. Others

a. Professional Division Committee Meeting Report

ANS is considering providing a national webmaster for all the divisions. It is still undecided whether the divisions will have to pay for this service. The hope is that divisional websites would be made more uniform and easier to use. A proposal from national should be forthcoming. It is the consensus of the Executive Committee that we would prefer to retain our own divisional webmaster and not go to a common webmaster for all divisions.

A proposal to change section travel support for students has been discussed. The proposal calls for a two tier travel reimbursement scheme for the Annual and Winter Meetings. One reimbursement level would be for students in the town of the meeting and the other reimbursement level would be for students living out of town. The division is willing to accept the two tier system.

Although the Bylaw and Rules Committee vote results on whether to move to electronic voting have not been made public, National is preparing to have an electronic voting system (for national and divisional officer elections) ready by 2010.

Training on the new electronic review system is being held all this week.

b. President's Meeting Report

A presidential special committee has suggested several embedded topical for upcoming meeting including topicals on Medical Physics and Small Light Water Reactor Issues. The dates when these topical will be held are unknown.

The Director General has announced a major fund raising campaign for outreach totaling approximately \$7.5 million. Outreach will cover a full spectrum of activities including K-12, Adults and the Media.

The ANS National Treasurer reported that the society lost 10% on its investments during the past year which is better than many other technical societies which lost greater than 20% due to the recent financial difficulties. ANS may develop a new business plan in which \$3 contributions per member are made to the professional divisions.

c. Young Member Group.

There was some discussion on the need to select a divisional liaison for the Young Member Group.

Action: Get a list of all Young Members Group members and determine who is a member of both the Young Members Group and the Thermal Hydraulic Division in order to determine a good candidate for the liaison position. (Vierow)

The meeting was adjourned at 7:37 p.m.

Minutes prepared by Brian Woods

PROPOSED AGENDA

**American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
Omni Shoreham Hotel, Washington DC
5:00 – 7:00 PM, Sunday, November 15, 2009
Location: Congressional A**

- 1. Opening (Karen)**
- 2. Approval of Meeting Agenda (All)**
- 3. Minutes from June 2009 Annual Meeting (Brian)**
- 4. Action Items from June 2009 Annual Meeting**
 - a. Conference Selection Committee (Karen)**
 - b. NURETH-14 Planning (John)**
 - c. NUTHOS-8 Planning (Cheng)**
 - d. NURETH-15 and beyond (Karen)**
 - e. NUTHOS-9 Planning (Karen)**
 - f. 2009 ANS Winter Meeting Status, Washington DC (Kurshad)**
 - g. Finalization of division rules/procedures (Karen)**
- 5. Treasurer's Report (Xiaodong)**
 - a. 2009 Division financial report**
 - b. Annual update on the TAA endowment account**
 - c. 2010 Division budget proposal**
- 6. Program Committee Report (Kurshad)**
 - a. NURETH-13 Status (Hisashi)**
 - b. NURETH-14 Planning (John)**
 - c. 2009 ANS Annual Meeting Report, Atlanta, GA (Kurshad)**
 - d. 2010 ANS Annual Meeting Program in San Diego, CA (Kurshad)**

- 7. Honors and Awards Committee Report (Bob)**
 - a. Solicitation for TAA**
 - b. Best Paper Award**
 - c. Young Professional Thermal Hydraulics Research Competition**
 - d. New Fellow nomination**
- 8. Nominating Committee Report (Chang)**
- 9. Membership Committee Report (Chang)**
- 10. Old Business (All)**
 - a. Memorial distinguished speaker series for Prof. Hochreiter update (Karen)**
 - b. Reminder of THD special events at this meeting (Hochreiter memorial session – Bob Martin, TAA presentation, TAA award at H&A luncheon)**
- 11. New Business (All)**
 - a. Division Report to the Board of Directors on Nov. 17 (Karen)**
 - b. Plans for Division website (DuWayne)**
- 12. Others**

ATTACHMENT C

Minutes of the Executive Committee Meeting

Thermal Hydraulics Division
American Nuclear Society 2009 Annual Meeting
Hyatt Regency Atlanta Hotel, Atlanta, Georgia
5:00 – 7:00 PM, Sunday, June 14, 2009
Courtland

Attendees: Kurshad Muftuoglu, Steven Arndt, Xiaodong Sun, Shripad Revankar, John Luxat, Hee Cheon No, Jong Kim, Hisashi Ninokata, Elia Merzari, Rizwan Uddin, DuWayne Schubring, Robert Martin, Yassin Hassan, Brian Woods, Steve Bajorek, Chang Oh (Chair), Karen Vierow, James Werner (same order as in Attachment A)

1. Opening

Chang Oh called the THD Executive Committee Meeting to order at 5:20 p.m.

2. Approval of Meeting Agenda

The meeting agenda (Attachment B) was introduced and approved.

3. Minutes from November 2008 Winter Meeting

The meeting minutes from the 2008 Winter Meeting in Reno, NV (Attachment C) were approved.

4. Action Items from November 2008 Winter Meeting

a. Conference Selection Committee (Chang Oh)

This item was discussed in the PC meeting, where Oh reported that the Conference Selection Committee was formed with the following members: Jong Kim (Chair), Steve Arndt, Mike Podowski, Qiao Wu and Randy Gauntt. Oh opened the floor for discussion with the possibility of adding additional candidates/members to the Conference Selection Committee. Hassan and Martin expressed their willingness to serve on the Committee. A vote by the Executive Committee is required to add additional members.

Action: Vierow was asked to take the initiative in this respect as next Division chair.

b. NURETH-14 Host Selection (Chang Oh)

Oh reported that the Canadian Nuclear Society's (CNS) proposal had been selected after a screening process. The original CNS proposal indicated that the conference dates would be October 2-6, 2011, less than four weeks before the 2011 ANS Winter Meeting (October 30-November 3). The NPC rejected the

proposal. The reason for the initial rejection was apparently because the dates were within 4 weeks of the 2011 ANS Winter Meeting. In fact, ANS rules forbid a conference to be held in the four weeks preceding a general meeting. It was, however, not entirely clear if this rule was applicable to NURETH-14 since the rule exempts international conferences. The proposal was revised to include the new conference dates of September 25-29, 2011. The NPC finally approved the CNS bid. However, due to the change in schedule, the venue was changed from Marriot Toronto Hotel to the Hilton Toronto Hotel.

Oh pointed out that the organizers of future international conferences should be aware of the exemptions for the 4 week rule and, with this recognition, still try to obtain a waiver.

Action: Muftuoglu was asked to attend the NPC meeting in July and make sure that the same situation was not reproduced for NUTHOS-8. Oh said that he had in fact already submitted Form 4 for the Chinese Nuclear Society bid for NUTHOS-8, as discussed in item 4.c.

c. NUTHOS-8 Planning (Jong Kim)

Kim reported that the Chinese Nuclear Society had submitted a bid for NUTHOS-8 (it was the only bid received by the time of the EC meeting). The Conference Selection Committee has just started the evaluation process and it will report to the Executive Committee. The proposed dates are October 10-14, 2010. It was noted that the proposed meeting dates are within 4 weeks prior to the 2010 ANS Winter Meeting and that this meeting proposal may be relieved of the 4-week requirement due to its international conference nature as noted in 4.b.

Revankar asked what the fall back plan is in case of rejection of the proposal. Jong Kim replied that a possibility is to move the meeting to 2012 or move the conference dates to September 2010.

Further discussion was held during the PC meeting.

Action: Jong Kim will collect the criteria for the conference proposal evaluation.

d. NURETH-15 and Beyond (Chang Oh)

Oh pointed out that NURETH-15 should be held in 2013 and solicitations should be sent out to the local sections. The 2013 ANS Winter Meeting will be held Nov. 10 - 15, and organizers of NURETH-15 need to be aware of the time constraints.

Action: Vierow was asked to take the initiative in distributing a solicitation to the local sections for NURETH-15 proposals.

Oh strongly requested that future candidate organizers of NURETH attend EC and PC meetings. They should also participate in the technical sessions. Such participation helps the potential organizers become familiar with the operation of the THD and can potentially make their proposals stronger.

Oh reported that the Jewish community expressed concerns about the NURETH conference dates because NUTHOS-7 and NURETH-13 were held in conflict with Jewish holidays. Ninokata said that he was aware of the situation. Due to the constraints from the ANS' 4-week rule and availability of the conference site, there were no other choices in the case of NURETH-13. Revankar proposed to include in the solicitation the guidance to avoid the holidays. However, due to the very tight schedule (e.g., competition with other conferences, the 4-week rule) it is agreed that the dates should be left to the organizer's discretion.

e. PDC Meeting Participation for E-Paper Cost (Hisashi Ninokata)

Ninokata reported that he had attended a Professional Divisions Committee (PDC) meeting held in the 2008 ANS Winter Meeting (November 11, 2008). The meeting agenda had included the discussion of ANS's financing the digitalization of old papers contained in back issues of *Nuclear Technology*, *Nuclear Science & Engineering*, and *Fusion Science and Technology*. A vote had been held in favor of the motion. The cost was estimated at \$270K. One method of covering these costs is for ANS to offer electronic versions of the papers online at \$30/paper. The source of funds for digitalization has not been decided.

f. New Fellow Nomination (Yassin Hassan)

Hassan pointed out that there are two independent processes for fellow nomination: to obtain a Division nomination or to present three referral letters. He reported that Seung Jong Oh, a member of the THD, was nominated and selected to a fellow status this June. Hassan also reported that the Division was in the process of nominating a member for the next winter term.

Oh informed the committee of the following statistics that he obtained at a meeting with the ANS president with other Division chairs on Sunday:

- In 2007/2008, 8 applications were filed for fellowship and 2 were approved;
- In 2008 (winter term), 3 applications were filed for fellowship and 1 was approved;
- In 2009 (spring term), 4 applications were filed for fellowship and 4 were approved.

Hassan proposed that more members of the THD should be involved in the ANS H&A Committee.

g. Update on Session Organizer Participation (Kurshad Muftuoglu)

This topic was extensively discussed in the PC meeting. Muftuoglu reiterated that there had been a steep increase in the reviewer participation (25 reviewers were active for the 2009 ANS Annual Meeting), and shared satisfaction with the current status of session organizing and reviewing.

Oh and Vierow pointed out that the THD in the year 2008 received all “green” metrics except for (and they were “white” – indicating acceptable):

- The class 1- class 2 topical meeting “box”, since they were not held;
- Non-meeting publications.

Oh deemed the status of our Division to be excellent, especially in comparison to some other Divisions which had several “yellows” and “reds”.

Oh also reported that the new chair of the PDC will be Mickey Brady-Raap.

h. 2010 ANS Annual Meeting Program in San Diego (Kurshad Muftuoglu)

Muftuoglu reported that in addition to the standing sessions such as General Thermal Hydraulics, Computational Thermal Hydraulics and General Two Phase Flows, three special sessions will be organized:

- Scaling analysis techniques and tutorial (see PC meeting minutes), which will be organized by Shripad Revankar and Pradip Saha;
- RG (Regulatory Guide) 1.157: a panel on the upcoming revisions (with Kurshad Muftuoglu, Bob Martin and possibly Steve Arndt); Steve Barojek’s name was mentioned too.
- Thermal Hydraulics of VHTR organized by Vierow and Oh.

Action: Muftuoglu will send e-mails and collect summaries describing these sessions. He will also submit them to the July NPC meeting.

5. EC Vote on ANST Professional Division Application (Chang Oh)

Oh reminded the EC members that at the PDC meeting on Tuesday June 16, a vote will be held on the approval of the application of the Aerospace Nuclear Science and Technology Technical Group (ANST) consisting of about 520 members to become a Division.

After several discussions, a vote was held and all were in favor of the ANST proposal. The motion was approved.

Oh reported that the following two items for the PDC meeting needed approval:

- ETD (Educational & Training Division) has moved to change their name to ETWDD (Education and Training Workforce Development Division);
- RRS (Robotics & Remote Systems Division) wanted to change its scope.

The first item was unanimously approved by the EC members. A recommendation was made for approval of the second item provided that the scope change does not overlap with the THD scope. Authority was given to the PDC meeting attendee from THD (Vierow) to decide. All attending EC members voted in favor and the motion was approved.

Rizwan Uddin asked the THD to endorse the INREC'10 conference (First International Nuclear and Renewable Energy Conference) to be held in Amman, Jordan, March 21-24, 2010. He explained that, after the endorsement of the THD, an application for co-sponsorship (Form 4 for Class IV meeting) will be sent for approval to the National Program Committee. Vierow pointed out that no THD sessions were available in the first draft of the program. Rizwan replied that the present program was preliminary and THD sessions will be eventually added. Rizwan also pointed out INREC'10 will not be considered as a THD sponsored Class IV meeting.

All the attending EC members voted in favor of the INREC'10 endorsement

6. **Treasurer's Report** (Karen Vierow)

Vierow presented the Treasurer's report on behalf of Kune Y. Suh.

Based on the balance sheet as of December 31, 2008 provided in Attachment D, the total revenue for 2008 was \$27,114 (including a carry-forward from 2007 of 14,430), and the total expenses were \$4,957, leaving the Division a balance of \$22,157. The two main sources of income were:

- NURETH-12, with an income of \$10,698.32 (20% share),
- Member allocation (\$2/member) for \$1,986.

Note that the Division income from paper submission in excess of the expected numbers is no longer received because the membership allocation has been increased from \$1/member to \$2/member.

THD expenses in 2008 are for awards and plaques (\$1,342), the Student Conference at Texas A&M University in Feb.-March 2008 (\$2,500: \$1,000 down from 2007), student travel support to the 2008 ANS Annual Meeting (\$250) and the 2008 ANS Winter Meeting (November 2008) (\$250 total: same as in 2007), and scholarships including the NEED program (\$500: same as in 2007). A one-time donation to the Larry Hochreiter Endowed Lecture Series of \$2,500 was also made.

Action: Vierow was asked to make sure that the THD receives information about the schedule for the distinguished speaker series in memory of Prof. Hochreiter.

7. Program Committee Report (Kurshad Muftuoglu)

The following reports were covered by the PC. See the PC Meeting minutes.

- a. NURETH-13 Status (Hisashi)
- b. NURETH-14 Planning (John Luxat)
- c. 2008 ANS Winter Meeting Report, Reno, NV (Kurshad)
- d. 2009 ANS Annual Meeting Program Status in Atlanta, GA (Kurshad)
- e. 2009 ANS Winter Meeting Program in Washington DC (Kurshad)

8. Honors and Awards Committee Report

- a. Best Paper Award (Yassin Hassan)

Hassan reported that the following two papers:

- *RCCS Experiments and Validation for High Temperature Gas-Cooled Reactor*, Chang Oh and Cliff Davis and Goon C. Park;
- *Applicability of Small-Scale Test data to the 4500 MWt ESBWR Loss-of-Coolant Accidents*, Pradip Saha et al.,

authored by THD members shared the Best Paper Award in 2008. The winner of the 2008 ANS Technical Achievement Award is the late Professor Larry Hochreiter. Professor Jack Brenizer received the award on behalf of Larry's family and friends during a memorial session honoring Larry in NUTHOS-7. The session was chaired by Prof. Y. A. Hassan and Prof. S. Kim.

- b. Young Professional Thermal Hydraulics Research Competition (Kurshad Muftuoglu)

Muftuoglu reported that the Young Professional Thermal Hydraulics Research Competition will be featured in the 2009 Young Professionals Congress (embedded topical meetings in the 2009 ANS Winter Meeting). Summaries submitted to the session "Innovation in Thermal Hydraulics" will be entered into the competition. The THD is expected to provide judges.

A paper was circulated through the meeting to collect volunteers for the judges. Those who volunteered include Xiaodong Sun, Elia Merzari and Hisashi Ninokata.

- c. New Fellow nomination

Discussed in item 4.f.

- d. TAA solicitation

Bob Martin reported that two carry-over nominations from previous years were considered by the H&A Committee and will be presented soon. July 1st, 2009 is the deadline for nominations. Martin expects one new nomination.

Chang Oh informed the EC meeting attendees that Jong Kim had received two ASME awards. The members extended their congratulations.

- The “ASME Dedicated Service Award” and
- The “Heat Transfer Memorial Award”, the highest award of the ASME division.

Action: The next Nominating Committee (Chair: Chang Oh) should determine 3 rotating members of the THD H&A Committee for the three-year term as soon as possible.

Action: The next THD H&A Committee Chair Bob Martin should take the initiative in the TAA solicitation.

9. Nominating Committee Report (Shripad Revankar)

Revankar reported the election results for Division Officers for year 2009-2010:

Incoming THD Officers (July 2009-June 2010):

Division Chair: Karen Vierow vierow@ne.tamu.edu
Vice Chair: Hisashi Ninokata hninokat@nr.titech.ac.jp
Treasurer: Xiaodong Sun sun.200@osu.edu
Secretary: Brian Woods brian.woods@oregonstate.edu

Five new EC members have been elected as listed below:

Executive Committee Members for Three-year Term:

Randall O. Gauntt rogaunt@sandia.gov
John Luxat luxatj@mcmaster.ca
Stephen Bajorek Stephen.Bajorek@nrc.gov
Cesare Frepoli FrepolC@westinghouse.com

Executive Committee Member for Two-year Term:

David L. Aumiller aumiller@bettis.gov

Revankar also reported that our current Program Committee Chair, Kurshad Muftuoglu, will serve for another 3-year term as THD Program Committee Chair.

Revankar requested names for the next year 3 EC members and THD officer nominations.

Action: The Nominating Committee Chair will solicit names for next year's TH EC members and officers of the THD.

10. Membership Committee Report (Bob Martin)

Bob Martin reported that the Division has 993 members as of Dec. 31, 2008. Revankar asked what the best strategy is to boost membership. Martin replied that the best strategy is to continue having good meetings (the number of members increases after NURETHs).

11. Old Business

None.

12. New Business

At the PDC workshop, Chang Oh was asked to appoint one or two THD Standards liaisons to the HTR design committee. Oh asked for volunteers. The role of the liaisons would be to write up comments or position papers on the selection of the reactor design.

Oh also pointed that at the PDC workshop each division was asked to finalize division rules/procedures this year.

Action: Vierow was asked to take the initiative in this respect.

Ninokata reminded the committee that NUTHOS-9 preparation for 2012 should be started soon.

Action: Vierow was asked to take the initiative in this respect

Ninokata also reminded the committee that there is a scheduled THD presentation to the board meeting in the 2009 ANS Winter Meeting.

Action: Vierow was asked to take the initiative in this respect

Jong Kim pointed out that there was a discussion in the last winter meeting about NUTHOS being elevated to the same status of NURETH. Muftuoglu noted that, putting NURETH and NUTHOS on the same level would lead to yearly THD topical meetings and competition with ICAPP meetings may arise. Ninokata pointed out that the scope of NUTHOS is somewhat broader than NURETH and limited to the North-East Asian Region. If NUTHOS is elevated to the level of NURETH, changes in the NUTHOS charter will be necessary.

Kim pointed out that the ANS meeting registration fee is increasing and something should be done about it.

Ninokata thanked the committee members for the message in memory of Prof. Akiyama on occasion of his death on behalf of the family. The message was conveyed to Mrs. Akiyama. The memorial service was held on May 19, 2009.

The meeting was adjourned at 6:50 p.m.

Minutes prepared by Hisashi Ninokata

ATTACHMENT D

Treasurer's Report (November 15, 2009)

(a). 2009 Division Financial Report

For 2009, the Division's income of \$24,951 came from the 2008 carry forward and our 2009 member allocation (\$2/member). THD expenses were support for awards and plaques, donation to the student conference at University of Florida in April 2009, student travel support to the ANS Annual Meeting (June 2009) and the ANS Winter Meeting (November 2009), scholarships including the NEED program, and a one-time donation to the Lawrence E. Hochreiter Distinguished Lecture Series.

Revenue		
Type	Item	
Member Allocation	\$2/THD Member	2,044
Carry Forward from 2008		22,907
Division Income from meeting revenue support		0
TOTAL REVENUE		24,951
Expenses		
Type	Item	
Awards, Plaques		71
Student Conference Support	University of Florida meeting	2,500
Student Travel Support	June 09 Meeting	250
Student Travel Support	Nov. 09 Meeting	250
Scholarship/NEED	Scholarship (\$250) + NEED Program (\$250)	500
Other Expenses	One-time donation to the Hochreiter Distinguished Lecture Series	2,500
TOTAL EXPENSES as of 08/31/09		6,071
Balance as of 08/31/09		18,880

However, the following expenditures are expected (incurred but not included in the table above):

- THD 2009 Technical Achievement Award at \$1,000
- THD 2009 Technical Achievement Award plaque (about \$75)
- THD 2009 Best Paper Award at \$500
- THD 2009 Best Paper Award plaque (about \$75)

Note this year we do not have the expense for the plaque for the Young Professionals Thermal Hydraulic Research Presentation Award since the competition will not be held at the ANS 2009 Winter Meeting. Therefore, the expected balance for the THD general funds to date is about **\$17,230**.

(b). Annual Update on the TAA Endowment Account

On October 30, 2009, Christian Krapp of ANS Accounting Manager provided the following information about THD's endowment account for the TAA Award (account No.: 2742):

Beginning Balance (01/01/2009): \$3,195.87

Balance on 09/30/2009: \$3,333.71

The account needs \$20,000 to get it fully endowed. Once the account is fully endowed, THD can use the revenue generated from this account to support the THD TAA award.

Donations from overseas organizations (e.g., AESJ from NURETH-13) can be used to fund this account.

(c). Division Budget Proposal for CY 2010

1. Expenditure proposal

For CY 2010, the following expenses are proposed for the Executive Committee to consider:

- \$1,800 for awards and plaques (same as in 2009)
- \$2,500 for ANS Student Conference support (same as in 2009)
- \$500 total for student travel support to the ANS Annual Meeting (June 2010) and the ANS Winter Meeting (November 2010) (same as in 2009)
- \$500 for Scholarship/NEED (same as in 2009)

Total proposed: \$5,300

2. Budget forecast

For CY 2010 to CY 2012, the only income to the THD general fund account will be from the membership allocation (\$2,044 for CY 2009. Estimated to be \$1,900 for the next few

years to be conservative). The donations from NURETH-13 and NURETH-14 will most likely be used to fund the TAA endowed fund account.

See the attached for a budget forecast for the next four years.

3. Possibility of setting up a second endowment account with the ANS HQ?

Joy Rempe proposed that THD consider establishing a second endowment account with the ANS HQ for the THD Best Paper and Young Professionals Thermal Hydraulic Research Presentation Awards (THD Publication and Presentation Awards). THD will primarily use the overseas donations to fund this account. Points for discussion:

1. Does THD want to establish this account?
2. Will the ANS HQ allow us to have the second one while the TAA endowment account is not yet fully funded?

Xiaodong Sun, The Ohio State University
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