

## **Executive Committee Minutes**

American Nuclear Society – Thermal Hydraulics Division  
Executive Committee Meeting  
Grand Sierra Resort, Reno, NV  
4:30 – 6:00 PM, Sunday, June 15, 2014  
Location: Crystal 2

**Attendees:** Chul-Hwa Song (KAERI), John Luxat (McMaster U), Kurshad Muftuoglu (GE/Hitachi), Donna Guillen (INL), Yang Liu (Virginia Tech U), Rui Hu (Argonne), Jong Kim (KAIST/EPRI), Elia Merzari (Argonne), Seungjin Kim (Penn State U) – Treasurer, Xiaodong Sun (Ohio State U), Hisashi Ninokata (Politecnico di Milano), Fan-Bill Cheung (Penn State U), DuWayne Schubring (U Florida) – Secretary, David Aumiller (Betts) – Chair, Si Young Lee (SRNL) – Vice-Chair, Piyush Sabharwall (INL), Wade Marcum (Oregon State), Faith Aydogan (U Idaho), Sabahattin Akbas (U Idaho), Michio Murase (INSS), Paolo Ferroni (Westinghouse), Igor Bolotnov (North Carolina State U), Xu Cheng (SJTU, UIT), Dave Pointer (ORNL) [same order as Attachment A]

### **1. Opening (Aumiller)**

Dr. Aumiller opened the meeting at 4:33 pm and asked new attendees to introduce themselves.

Aumiller then paused the meeting to allow representatives from the immediate past and next ANS student conference to speak.

Representatives from Pennsylvania State University reported a successful conference with 500 attendees, numerous papers, panels, and workshops, and a significant THD presence in the program. A total of \$50,000 will be distributed as travel assistance to student attendees.

Representatives from Texas A&M University provided EC meeting attendees with attachment B. They report a strong focus on international student participation, with establishing a VISA process a high priority. They requested financial support from THD and participation on THD professional members in the judging process.

Following the student conference presentations, Aumiller and Prof. Schubring reported that they had verified the presence of a quorum.

### **2. Approval of Meeting Agenda (All)**

The draft agenda (Attachment C) was distributed. Prof. Schubring recommended the addition of items on NURETH-17 (Item 5f) and PC motions (Item 5g). Prof. S. Kim requested that officer roles be clarified, time permitting (Item 10d).

Dr. Muftuoglu moves to approve the revised agenda, second by Dr. Merzari, approved without objection. The final agenda appears as Attachment D.

### **3. Action Items from 2013 Winter Meeting**

- a) **Electronic votes since 2013 Winter Meeting, including approval of 2013 Winter Meeting EC Minutes (Aumiller, Schubring)**

Prof. Schubring reported the results of the following electronic votes, noting that there are 19 EC members (10 required for a quorum):

- Approval of November 2013 Executive Committee Meeting Minutes, December 11, vote of 16-0
- Distribution of \$500 (\$100 best THD paper, \$400 general fund) to PSU Student Conference, January 30, vote of 17-0
- \$1500 of unspent 2013 student travel support for THD attendees to the PSU Student Conference, March 29, vote tally not available at the meeting
- Approval of strategic plan, May 19, vote of 15-0

Following the meeting, Dr. Aumiller provided the missing vote tally to Schubring (8 voted in favor, 4 explicitly abstained [considered as voting "present" to establish quorum], 7 no votes, and 0 oppositions).

**b) Provide NURETH fellow selection criteria for EC vote (Sun)**

Prof. D'Auria provided the criteria used for NURETH 15 to Prof. Sun. In turn, Prof. Sun presented these to the EC (Attachment E). Discussion was deferred to an electronic forum, though it was noted that NURETH 15 fellows would be grandfathered in, regardless of changes to criteria.

**c) Current status of TAA endowment account (S. Kim)**

Prof. S. Kim indicated that ANS-HQ had not responded to repeated requests.

Dr. Aumiller indicated that he had learned the current value of the account was \$19,977 (\$10,000 from NURETH 14 and \$9,977 from NURETH 15). An additional ~\$15,000 plus investment returns are unaccounted for.

Dr. Muftuoglu noted that two independent issues were involved – the location of the THD funds themselves and poor responsiveness/accountability on the part of ANS-HQ staff.

Ms. Sandra Sloan, THD's board liaison, indicated that she was a member of the ANS finance committee and will raise the issue with the board.

**ACTION ITEM** for S. Kim and Muftuoglu (incoming treasurer, 2014-15): resolve the status of the THD award account by the next national meeting.

**4. Treasurer's Report (S. Kim)**

Prof. S. Kim provided a summary in Attachment F.

S. Kim indicated that the 2013 student support reallocated to the student conference was not completely spent and recommended it not be rolled over again. A brief discussion occurred on the procedures for this; since not rolling the money over does not require any action, no motion was believed necessary.

It was noted that the timing of any ATH '14 revenue was not clear.

Dr. Aumiller reiterated the plans for fully fund the TAA as soon as possible and stop taking this money from the THD general fund, as well as increasing the TAA from \$1000 to \$2000 once funding permits.

## **5. Program Committee Report**

### **a) 2014 ANS Annual Meeting Program in Reno, NV (including ATH '14) (Sun)**

Prof. Sun briefly summarized the presence of both regular summary sessions and ATH '14 full paper sessions in this meeting, while noting a more detailed description is available in the PC minutes from this meeting.

### **b) 2014 ANS Winter Meeting Program in Anaheim, CA (Sun)**

Prof. Sun again referred members to the PC minutes. The importance of stimulating YPTHRC from non-university members (young professionals, instead of or in addition to senior graduate students) was highlighted.

### **c) 2015 ANS Annual Meeting Program in San Antonio, TX**

Prof. Sun summarized the plans for this meeting, reiterating the sessions agreed upon in the PC meeting:

1. General Thermal-Hydraulics (J. Luxat and K. Muftuoglu, and E. Merzari)
2. Computational Fluid Dynamics Verification and Validation (Y. Hassan, H. Ninokata, and D. Pointer)
3. Advanced System Code Development and Analysis (F. Aydogan and D. Aumiller)
4. Experimental Thermal-Hydraulics (W. Marcum and P. Sabharwall)
5. Computational Thermal-Hydraulics (I. Bolotnov and D. Guillen)
6. Thermal Hydraulics in Non-traditional Nuclear Applications (S. Y. Lee)
7. Thermal Hydraulics Education [Panel] (S. Bilbao y Leon and D. Schubring)
8. Two-phase Flow (Y. Liu, S. Kim, and F.B. Cheung)

### **d) NUTHOS-10 Report (Ninokata)**

Prof. Ninokata noted that NUTHOS-10 will be a Class IV meeting and invited members to consult the PC minutes for more details.

Prof. Sun noted that a Class IV implies no ANS (or THD) liability, but excludes the possibility of direct revenue to THD. THD could still select the Best Paper Award for 2014 from NUTHOS-10.

Ninokata then noted that strong papers will be referred to Nuclear Engineering and Design and to Journal of Nuclear Science and Technology and the desirability of the conference location (Okinawa, Japan).

### **e) NURETH-16 Report (Merzari/Sun)**

The opportunities for sponsorship and journal publication, noted in the PC meeting, were reiterated.

**f) NURETH-17 (Schubring)**

Prof. Schubring reviewed the beginning of the discussion on NURETH 17 citing from the PC meeting. The normal NURETH rotation would set the meeting in the Asia/Pacific region. Schubring recommended that the traditional rotation – decided decades ago – be reconsidered and either modified or reaffirmed, based on significant changes in THD membership since the founding of the NURETH series.

Schubring highlighted that he was advocating a discussion be held on the issue, not a specific outcome to that discussion. Dr. Aumiller agreed with this approach.

Prof. Cheung made a **MOTION** to state in the NURETH-17 CFP, “A preference will be shown to prospective NURETH-17 hosts in the Asia/Pacific region.” Second by Dr. Merzari.

Prof. J. Kim made an **AMENDMENT** to state in the NURETH-17 CFP, “NURETH-17 is intended to be hosted in a region that has not hosted NURETH in the preceding 4 years.” Second by Dr. Muftuoglu.

Dr. Muftuoglu discussed the Class I criteria, vis-a-vis an international meeting, and the importance of a strong link between the THD and the conference leadership, should a Class I meeting be pursued.

Aumiller suggested that the issues of location and meeting class be addressed separately, noting the motion and amendment under consideration only addresses location.

Prof. S. Kim made an **AMENDMENT** that the amended version be weakened from “is intended” back to a “a preference will be shown”. The amendment **FAILED**, for want of a second.

Discussion continued on the J. Kim amendment.

Cheung noted a link between NURETH location and TH/THD activity in that country, recommending that only countries with active THD members be given serious consideration.

The question was called on the J. Kim amendment, which **PASSED** by a vote of 10-2.

Discussion continued on the Cheung motion, now amended.

Dr. Pointer inquired as to whether a CFP was needed at all, suggesting the THD consider selecting a strong candidate host from known THD leaders.

Prof. Sun noted that the NURETH 16 CFP indicated an intention to host in the US.

The question was called on the original motion, which **PASSED** by a vote of 8-4.

Cheung requested clarification on the role of the Conference Selection Committee and recommended its name formally be changed to the Conference Screening Committee, to reflect the fact that final selection is made by the EC. Aumiller notes that Sun (as PC chair) and he will update the role of the committee.

Aumiller asked the committee whether a preference for a Class I meeting should be stated in the CFP.

Muftuoglu made a **MOTION** to state such a preference.

Cheung indicated his preference to focus on the potential for assuring technical quality in the proposal selection process, rather than revenue/ANS rules.

The motion **FAILED**, by a vote of 2-9.

#### **g) Motions from the PC Meeting (new members, NED issue for Dr. Zuber) (Sun)**

Prof. Schubring read the PC motion (add Prof. Aydogan and Prof. Manera to the PC), noting that a PC motion is to be taken as a motion and a second in the EC. The motion was approved without objection.

The request for EC approval on a special issue of Nuclear Engineering and Design, to include a letter from the division chair or other THD involvement, was also approved without objection.

#### **6. Nominating Committee Report (Sun)**

Prof. Sun noted that most of this information was in the last newsletter, highlighting renewal of the terms of Prof. Cheung and Prof. S. Kim on the EC. The new officers for 2014-15 (Dr. S.Y. Lee – Chair, Prof. Schubring – Vice Chair, Prof. S. Kim – Secretary, Dr. Muftuoglu – Treasurer) were noted.

Sun noted that the Conference Selection Committee was formalized in June 2013, with 7 members.

Dr. Pointer made a **MOTION** to formally rename this committee to the Conference Screening Committee. Sun seconded.

Muftuoglu emphasized the role of the EC in the selection.

Prof. J. Kim suggested that the CSC needs some authority to operate successfully.

Prof. Luxat suggested a model similar to the Board of Directors, with subcommittees who make recommendations for BOD final decisions.

The motion **PASSED**, 9-3.

Sun, on behalf of the NC, recommended adding Prof. Cheung for a 4 year term. This was interpreted as a committee recommendation (no second required at the EC meeting), and **APPROVED** without objection.

Sun also noted that the Honors and Awards committee will lose two members, as Prof. Karen Vierow's term (as past-past-past-past EC chair and current H&A chair) expires at the end of the Annual Meeting, with Prof. Hassan's term also expiring. Dr. Aumiller will be added to the committee automatically (as new past EC chair).

Sun, on behalf of the NC, recommended adding Prof. Michael Corradini for a 3 year term, citing the preference for TAA winners for this role . This was interpreted as a committee recommendation (no second required at the EC meeting), and **APPROVED** without objection.

## **7. Division Website Report (Marcum)**

As the meeting was well behind schedule, it was briefly noted that the website update is available in the newsletter.

## **8. Membership Committee Report (Sun)**

As the meeting was well behind schedule, it was briefly noted that the membership report is available in the newsletter.

## **9. Old Business (All)**

### **a) Reminder of THD Special Events at 2014 Annual Meeting**

ATH '14, particularly the special sessions for Dr. Zuber, were noted.

## **10. New Business (All)**

### **a) Activities for New Members (Schubring/Aumiller)**

Prof. Schubring read a list of activities suggested to him via e-mail:

- Newsletter article
- Newsletter layout/assembly [Secretary's responsibility]
- Draft meeting meetings [Secretary's responsibility]
- Liaison to Public information committee
- Review of ANS Policy Statements
- Review ANS Communications
- Maintain membership statistics database [Membership Committee's responsibility]
- Coordinate student activities
- Develop career materials
- Develop policy statement on TH research funding
- TH-relevant apps (property lookup) for website

Dr. Merzari suggested including this list in the next newsletter. Dr. Pointer agreed to draft the article.

### **b) Current Tactical and Strategic Plans, Division Metrics, Presentation to BOD (Aumiller)**

Dr. Aumiller noted that tactical and strategic plans were discussed over e-mail, thanking the EC members for the discussion. Aumiller suggested incoming chair, Dr. Lee, begin discussion of the next year's versions soon.

Regarding the division metrics, Aumiller noted that the official ANS-HQ ratings were better than those he had calculated himself and that he was told that THD had better metrics than any other division.

Aumiller indicated that Lee will step in for him at the Board of Directors presentation, due to a schedule conflict. Aumiller recommended that the website include this presentation.

**c) 2014-2015 Strategic Plan (Lee)**

Time did not permit a full discussion of the strategic plan. Dr. Lee indicated that his priorities as incoming chair will include enhancing communications within the division, including community news items (such as new or young members) in the newsletter.

Dr. Aumiller noted that new ANS-HQ supported IT resources will be rolling out soon.

Lee then presented Aumiller with a plaque in gratitude for Aumiller's service to the division over the past several years.

**d) Clarification of roles for officers (S. Kim)**

This item was deferred to e-mail for lack of time.

Dr. Merzari suggested an ATH best paper plaque, estimated at \$70. Prof. Schubring formalized the suggestion as a **MOTION** to allocate up to \$70 for this purpose, second by Dr. Pointer, **PASSED** without objection.

Merzari then motion to adjourn.

Dr. Aumiller formally adjourned the meeting at 6:02 pm.

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Name	Affiliation	E-mail	Phone
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# POWERING TOMORROW TOGETHER

American Nuclear Society  
2015 Student Conference

April 9-11

Texas A&M University  
ansstucon.tamu.edu



## Goals:

650-700 Total Attendees  
400-450 Domestic Students  
50 International Students  
150 Professionals

## Conference Content:

Technical Presentations (Podium and Poster)  
Special Technical Track: International Applications  
Workshops  
Career Fair  
Panels  
Tours (Labs, Facilities, and Regional Tours)  
Socials (Including WiN, INMM, HPS, NAYGN)  
Speaker Dinners (3)

## Panels:

International Business Etiquette  
Opportunities for Research Abroad  
Graduate School Informational  
*International Students: Applying to Grad School in the US*  
*Domestic Students: NUEN and Rad. Health Grad. School Abroad*

## Workshops:

Thermal Hydraulics  
Nuclear Security Workshop  
Disaster City  
K-12/Scout Merit Badge  
AGN Reactor Start-up  
Computational Fluid Dynamics  
Global Fuel Cycle  
RELAP 5

## **PROPOSED AGENDA (Draft)**

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  - d. Clarification of roles for officers (S. Kim)

## **NURETH Fellow Selection Criteria**

[For discussion]

The following is a list of the requirements/criteria proposed and used by the NURETH-15 organizers in selecting "NURETH Fellows" at NURETH-15.

- 1) More than 60 years old (at the time of the concerned NURETH Conference)
- 2) More than "n" papers presented at NURETH Conferences, where "n" is the actual number of the concerned conference (the publication list will be updated at each NURETH Conference),  
and  
At least 10 times being part of the Scientific Committee of the NURETH Conferences;  
  
or (in substitution to the two previous requirements under 2)  
  
Published no less than 10 NURETH papers and had served as TPC Chair for one NURETH Conference
- 3) More than 20 years elapsed between the first and the last NURETH papers
- 4) Less than 80 years old (after 80 years old, Senior Fellow remains in the list as NURETH Honorary Fellow)

Last updated May 27, 2014

## TREASURER'S REPORT

### 2014 Division Financial Report

#### 2014 Income and Balance

- Revenue from 2014 THD member allocation: \$586 (Actual 3 months as of March 31, 2014)
- Balance forward from 2013: \$17,706
- Estimated balance as of May 27<sup>th</sup>, 2014: \$16,992

#### 2014 Division Budget (\$4,800)

The THD Executive Committee approved the following budget at the 2013 Winter Meeting:

- Awards and plaques: \$1,800
- Donation to Scholarship/NEED: \$500
- Student support: \$2,500  
Student support includes: \$500 for ANS-national directed support of student travel to Annual/Winter meetings; \$500 for 2014 ANS Student Conference; and \$1,500 of THD-directed student travel support for 2014 Annual and Winter meetings (including the embedded topical).

#### 2014 Expenses (\$1,300)

THD expenses occurred in 2014 as of May 27<sup>th</sup> are as follows:

- Awards / Plaque: \$ 0
- Donation to Scholarship/NEED: \$ 500
- Student support: \$ 800  
\$500 for 2014 ANS Student Conference;  
\$300 THD-directed student travel support for two students who traveled to 2014 ANS Student Conference (This is to substitute partly for \$1,500 budgeted for THD-directed student travel support for 2013 Winter Meeting which did not occur);  
Currently, there are three students who applied for 2014 THD-directed student travel support for 2014 ANS Annual Meeting (including ATH '14).
- Other expenses: \$ 0

Seungjin Kim, The Pennsylvania State University  
2014 Treasurer  
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