

# **Minutes of the Executive Committee Meeting**

**Thermal Hydraulics Division  
2008 American Nuclear Society Winter Meeting  
Grand Sierra Resort & Casino, Reno, Nevada  
5:00 – 7:00 p.m., Sunday, November 9, 2008  
Teton 1**

Attendees: Chang Oh (Chair), Brian G. Woods, Heng Ban, Mike Podowski, Jong Kim, Hisashi Ninokata, Elia Merzari, Kurshad Muftuoglu, Xaiodong Sun, Jose Reyes, Yassin Hassan, Karen Vierow, Joy Rempe, Hee Cheon No, Seungjin Kim (same order as in Attachment –A)

## **1. Opening**

Chang Oh called the THD Executive Committee Meeting to order at 5:10 p.m.

## **2. Approval of Meeting Agenda**

The meeting agenda (Attachment B) was introduced and approved with an additional sub-item “f. 2009 ANS Winter Meeting Program in Washington DC (Muftuoglu)” in Item 4. Action Items from June 2008 Annual Meeting.

Before proceeding to the next Item 3, Oh invited Joshua Richards, a student at the University of Florida and 2009 ANS Student Conference Co-Chair, who briefed the committee on the upcoming ANS Student Conference 2009 (Florida).

Richards requested:

1. Financial support of \$3,000 (they would like to provide travel support at \$250/student) from the THD division;
2. At least six judges for the student competition (Attachment E).

Oh reiterated the continuous support of the THD division toward the student conference. More than six EC meeting attendees volunteered to be judges in the competitions. A list with names, contact information and signatures of the judges was made available (Attachment E provided by Brian). Oh inquired about a proposal to have a RELAP5 workshop which would be sponsored by the division. Students cordially accepted the offer. They also expressed gratitude for past financial support from the division.

### **3. Minutes from June 2008 Annual Meeting**

The meeting minutes from the June 2008 meeting in Anaheim, CA (Attachment C) were approved.

### **4. Action Items from June 2008 Annual Meeting**

#### **a. NURETH-14 Host Planning**

Discussion was made in the preceding PC meeting where it was reported that Canada and Italy had responded to the call for proposals for hosting NURETH-14. Target screening date is January 2009. It was discussed that the next NURETH conference should be held in USA (including Canada), followed by the one outside USA, then in USA every two years.

From now on, the Division Chair and Vice-chair will form a NURETH host selection committee and establish procedures to avoid past difficulties with solicitation distribution, proposal scoring criteria, etc.

*Action: Distribute call for proposals of NURETH-14 to ANS local section.*

*Note: After the ANS meeting, Rempe checked with ANS headquarters and learned that the NURETH14 call for proposals had been distributed to all local sections in the US and to foreign sections registered with ANS headquarters.*

#### **b. NUTHOS-8 Planning**

In order to facilitate the suggestion made by Kim (Jong) during the PC meeting to hold the NUTHOS conference every two years between two NURETH meetings, thus enabling us to have NURETH or NUTHOS alternatively every year, it was agreed to continue the discussion that THD should be a major sponsor of the NUTHOS series, whereas the north-east Asian countries had been the conference site in the past.

*Action: Kim (Jong) was asked to take the initiative in this respect.*

#### **c. NURETH-15 and beyond**

Jong Kim suggested that submission of proposals for NURETH conferences beyond the one currently being organized be discouraged. He again expressed concerns that Division member's names had been used without permission in the Indian proposal. Muftuoglu noted that there may have been some miscommunication with respect to the process.

Further discussion was held during the PC meeting.

*Action: Placement of call for proposals for hosting NURETH-15 shall be made on the web-site at the appropriate time and continue to be distributed via the ANS headquarters distribution system.*

d. Status of the 2008 ANS Winter Meeting, Reno, NV (Muftuoglu)

25 papers were scheduled to be presented in 5 technical sessions and two presentations would be made in the Award Session in memory of the late Prof. Larry Hochreiter. Further discussion was held during the PC meeting.

e. Update on Session Organizer Participation (Muftuoglu)

None

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

Skipped (the discussion was held during the PC meeting.)

Oh reported on the Professional Divisions Committee meeting. Discussions were made on ANS's financing the digitalization of old papers contained in back issues of *Nuclear Technology*, *Nuclear Science & Engineering*, and *Fusion Science and Technology*. The cost is estimated at \$270K. ANS would like to offer electronic versions of the papers online at \$30/paper. A vote was held to decide whether the THD supports or not the proposition. The motion passed. With this, Ninokata was asked to attend the PDC meeting in the afternoon, Tuesday to participate in the ballot.

Oh also reported that at the PD workshop the student section proposed a new disbursement method, intended to provide some immediate relief while larger changes are considered at length. Some options being considered include removing the distance-weighted calculation so that each student receives an equal amount, asking division contributions earlier than June 1 so that a preliminary estimate of travel reimbursement can be provided. A vote was held to decide whether the THD would support the proposition or not. The motion passed.

Oh pointed out that Don Hoffman, PDC Chair, mentioned that he considers including each division's "EC/PC minute report within 30 days following the ANS meeting" as one of the professional division metrics/measures of division vitality.

Don Hoffman also asked if it is worthwhile hiring one webmaster who can serve all divisions and he will find out the cost later.

*Action: Ninokata attended the PDC Meeting (Tuesday, November 11, 4:00PM-6:30PM)*

## **5. Treasurer's Report**

Vierow presented the treasurer's report on behalf of Suh. Based on the balance sheet as of March 31, 2008 provided in Attachment D, the total revenue for 2008 was \$16,416 (including carry-forward from 2007), and the total expenses were \$2,500, leaving the division a balance of \$13,916. The income from the NURETH-12 was \$10,698.32 that had been transferred to THD but not included in the balance sheet yet.

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 (\$1,800: same as in 2007), the Student Conference at Texas A&M University in Feb.-March 2008 (\$2,500: \$1,000 down from 2007), student travel support to the ANS Annual Meeting (June 2008) and the ANS Winter Meeting (November 2008) (\$500 total: same as in 2007), and scholarships including the NEED program (\$500: same as in 2007).

For 2009, the proposed expenses were: support for awards and plaques (\$1,800: same as in 2008), the ANS Student Conference at University of Florida in March 2009 (\$2,500: same as in 2008), student travel support to the ANS Annual Meeting (June 2009) and the ANS Winter Meeting (November 2009) (\$500 total: same as in 2008), and scholarships including the NEED program (\$500: same as in 2008). This budget, which is based on the recommendation made by the Ad-hoc Committee (Vierow, Cheung and Rempe) on Long-Term Finances, was approved by the EC. See Attachment D for more details.

## **6. Program Committee Report**

The following committee reports are the same as in the PC. See the PC Meeting minutes.

- a. NUTHOS-7
- b. NURETH-13 status
- c. 2008 ANS Annual Meeting Report, Anaheim, CA
- d. 2008 ANS Winter Meeting Status, Reno, NV
- e. 2009 ANS Annual Meeting Program in Atlanta, GA

## **7. Honors and Awards Committee Report**

- a. Solicitation for TAA

To be conducted next year.

b. Best Paper Award

Hassan reported that papers authored by THD members Chang Oh and Pradip Saha share the Best Paper Award this year.

c. Young Professional Thermal Hydraulics Research Competition

Covered just after Item 2.

d. New Fellow nomination

Hassan proposed to encourage THD members to join the selection committee of ANS fellows (ANS Honors and Award Committee). The division should submit a proposal to revise the selection process. Hassan will take leadership on this issue. The proposal should feature:

- The creation of subcommittees in the honors committee (based on each division),
- The definition of different criteria (e.g., to include criteria that take into account; achievement in the industry );
- The introduction of an appeal process.

*Action: Yassin will talk to Chairman of H&A Committee Bob Little in this regard.*

## **8. Nominating Committee Report**

Chang Oh reported on behalf of Shripad Revankar that the 2009 THD officer candidates are as follows:

Chair: Karen Vierow  
Vice Chair: Hisashi Ninokata  
Secretary: Brian Woods  
Treasurer: Xaiodong Sun

New Honors and Award Committee members: Riznic, Kim (Jong) and Bill Cheung

New Executive Committee members: Steve Bajorek (US NRC), John Luxat (McMaster University), Randy Gauntt (Sandia National Laboratories), Cesare Frepoli (Westinghouse), David Aumiller (Bechtel Bettis). Aumiller will be nominated for a two year term.

## **9. Membership Committee Report**

There was no report from the Committee.

## **10. Old Business**

None.

## **11. New Business**

- Others --- Conference advertisement of THD members as session organizers for future conferences - NURETH15, IHTC, etc: discussed in the PC.
- Vierow reported on behalf of Bob Martin that the Nuclear Engineering Program at Penn State University is endeavoring to endow a “distinguished speaker series” in honor of Prof. L. Hochreiter, financed through donations. The minimum level of support for such a series is \$100,000. Note that this is independent of the Penn State Scholarship Program to which AREVA and Westinghouse Electric Corporation are considering making sizable donations. A vote was held to decide the amount of money that the division would donate. A motion (by Muftuoglu) seconded (by Vierow) passed for \$2,500 in a single payment. A motion to include this as a Division expenditure for 2009 was passed.

*Action item: Vierow will email Bob Martin and Jack Brenizer, Chair of the Penn State University nuclear program, to report the Division’s suggested donation and to inquire about the logistics of individual donations.*

The meeting was adjourned at 6:30 p.m.

*Minutes prepared by Hisashi Ninokata*

ATTACHMENT A

Thermal Hydraulics Division Executive Committee  
 American Nuclear Society 2008 Winter Meeting  
 Grand Sierra Resort and Casino, Reno NV  
 5:00 - 7:00 p.m., Sunday, November 9, 2008  
 Teton 1

Attendance Signup Sheet

Name	Affiliation	Email	Phone	Signature
Chang Oh	INL	chang.oh@inl.gov	208-526-7716	
Brian Woods	Oregon State	brian.woods@oregonstate.edu	501-737-6335	
Heng Ban	Utah State Univ	heng.ban@usu.edu	435-797-2078	
MIKE PODOWSKI	RPI	podow@mipi.edu	518-276-4000	
Jong Kim	KAIST/EPRI	jkim@epri.com	650-855-2671	
Hisashi Ninokata	TITech	hninokata@nrr.titech.ac.jp	+81-3-5734-3056	
MERBARI ELVA	TITECH	merzori@nrr.titech.ac.jp	+81-4034765381	
Kurshad Muftuoglu	Hitachi Nuclear En	kurshad.muftuoglu@ge.com	(910) 819-4556	
Xiaodong Sun	Ohio State	Sun.244@OSU.edu	614-247-7646	
JOSE REYES	OREGON STATE	reyes@ne.orst.edu	541-737-7665	
Yassin Hassan	Texas A&M Univ	y-hassan@tamu.edu	979-845-7090	
Karen Vierow	Texas A&M Univ	vierow@ne.tamu.edu	979-458-0600	
Joy Rempel	INL	joy.rempel@inl.gov	208-526-2897	
Hee Cheon NO	KAIST	hcno@kaist.ac.kr	042-869-3817	
SEUNGJIN KIM	PENN STATE	sxk86@psu.edu	(412) 867-1783	

## ATTACHMENT B

**PROPOSED AGENDA**  
**American Nuclear Society – Thermal Hydraulics Division**  
**Executive Committee Meeting**  
**Grand Sierra Resort, Reno, Nevada**  
**5:00 – 7:00 PM, Sunday, November 09, 2008**  
**Location: Teton 1**

1. Opening (Chang)
2. Approval of Meeting Agenda (All)
3. Minutes from June 2008 Annual Meeting (Kune)
4. Action Items from June 2008 Annual Meeting
  - a. NURETH-14 Host Planning
  - b. NUTHOS-8 Planning
  - c. NURETH-15 and beyond
  - d. Status of the 2008 ANS Winter Meeting, Reno, NV (Kurshad)
  - e. Update on Session Organizer Participation (Kurshad)
  - f. 2009 ANS Winter Meeting Program in Washington RC (Kurshad)
5. Treasurer's Report (Kune)
6. Program Committee Report (Kurshad)
  - a. NUTHOS-7 (Kune)
  - b. NURETH-13 status (Hisashi)
  - c. 2008 ANS Annual Meeting Report, Anaheim, CA (Kurshad)
  - d. 2008 ANS Winter Meeting Status, Reno, NV (Kurshad)
  - e. 2009 ANS Annual Meeting Program in Atlanta, GA (Kurshad)
7. Honors and Awards Committee Report (Yassin)
  - a. Solicitation for TAA (Yassin)
  - b. Best Paper Award (Yassin)
  - c. Young Professional Thermal Hydraulics Research Competition (Don)
  - d. New Fellow nomination (Yassin, all)
8. Nominating Committee Report (Shripad)
9. Membership Committee Report (Bob)
10. Old Business (All)
11. New Business (All)
12. Others Conference advertisement of THD members as session organizers for future conferences- NURETH15, IHTC, etc



## **Minutes of the Executive Committee Meeting**

**Thermal Hydraulics Division  
2008 American Nuclear Society Annual Meeting  
Disneyland Hotel, Anaheim CA  
5:00 – 7:00 p.m., Sunday, June 8, 2008  
Disney Exhibit Hall Room I**

Attendees: K.Y. Suh, B.G. Woods, Y.A. Hassan, X. Sun, C. Oh, S.T. Revankar, J.H. Kim, K. Muftuoglu, F. Bill Cheung, S.Y. Lee, C. Unal, J. Rempe, J. Reyes, H. Ninokata (same order as in Attachment A)

### **1. Opening**

Revankar called the THD Executive Committee Meeting to order at 5:09 p.m.

### **2. Approval of Meeting Agenda**

The meeting agenda (Attachment B) was introduced and approved. It was told that the Student Conference will be held at the University of Florida, Gainesville, FL on April 1 through 5, 2009. Five students will be financially supported at \$ 500 each. Judges will be needed.

### **3. Minutes from November 2007 Winter Meeting**

The meeting minutes from the November 2007 meeting in Washington, DC (Attachment C) were approved.

### **4. Action Items from November 2007 Winter Meeting**

#### **a. Inactive Members**

Muftuoglu reported on behalf of Martin that the inactive members had been removed. Revankar confirmed with the Membership Committee using the list that Martin had provided.

#### **b. Ad-hoc Committee on Long-term Finances**

The Long-term Finance Committee has completed their review of the THD finances, and a report has been prepared with their recommendations. This report was presented as part of the treasurer's report below.

### **8. Treasurer's Report**

Revankar presented the treasurer's report on behalf of Vierow. As noted in Attachment D, the total revenue for the last 12 months was \$19,621 (including carry-forward), and the total expenses were \$5,191, leaving the division a balance of \$14,430. Note that

NURETH12 revenue wasn't received at the time that this report was generated (it will be included in next year's report). As noted above in Section 4 Action Items, an Ad-hoc Committee (Vierow, Cheung and Rempe) on Long-Term Finances was asked to look at past THD expenses and revenues, estimate future expenses and revenues (considering possible income from upcoming conferences in their appropriate years, and to develop recommendations for spending that would ensure that sufficient revenue was available for THD expenses. In order to ensure that there are sufficient funds available to withstand the three years between conferences in which revenue is generated, the Ad-hoc Committee recommended that the expenses be limited to \$3216/year. Currently, the Division has a 7-year reserve, including the NURETH-12 income. The ad-hoc committee recommended that this excess reserve be reduced to a 3-year reserve by allowing higher student support over the 2009-2013 years. Recommended spending would consist of \$1800/year for awards and plaques, \$2500/year for student support, and \$1000/year for scholarship/NEED support. Although the budget must be approved by the Executive Committee annually, a motion to adopt the Ad-hoc Committee recommendations was made by Shripad, and seconded by Oh. The Executive Committee unanimously agreed to adopt the Ad-hoc Committee recommendations.

## **9. Program Committee Report**

### **a. NURETH-12 Report**

Muftuoglu provided an update on this meeting. Selected papers from the meeting are being published in special editions of Nuclear Technology (with Special Editors Cheung, Vierow, and Rempe), Nuclear Engineering & Design (with Special Editor, Hassan) and Nuclear Engineering & Technology (with Special Editor, Suh).

### **b. NUTHOS-7 Update**

Suh provided a brief update on the conference. He reported that there were a total of 271 abstracts received from 26 countries. The upcoming dates are June 30, 2008 for full manuscripts; July 31, 2008 for notification of acceptance; August 29, 2008 for camera-ready manuscripts and pre-registration. He repeated that selected peer-reviewed papers will be recommended for publication in archival journals of Nuclear Science & Engineering, Nuclear Technology, Nuclear Engineering & Design, and Nuclear Engineering & Technology.

### **c. NURETH-13 Update**

Ninokata briefed the committee that the conference would be held in Kanazawa, Japan from September 27 through October 2, 2009. The meeting category is Class IV. The Local Organizing Committee was established and had its first meeting in February 2008 at Nikko Hotel, Kanazawa, 100 km north of Kyoto, Japan. The National Program Committee is to grant preliminary approval in July in Chicago, IL.

### **d. 2008 ANS Winter Meeting, Reno, NV**

Muftuoglu reported that the proposed technical sessions are:

- General Thermal Hydraulics (Hassan, Cheung, J.H. Kim)
- Rod Bundle Thermal Hydraulics (S. Kim, Ninokata)
- Thermal Hydraulics of Advanced Reactors (Woods, Hassan, Leon)
- Computational Thermal Hydraulics (Muftuoglu, Guillen, Luxat)
- General Two-Phase Flow (Sun, Kim, Saha)
- Severe Accidents and Fluid-Structure Interaction (Guillen, Rempe, Vierow, Unal)
- Thermal Aspects of Nuclear Material Handling and Environmental Monitoring (Lee, Oh)

## **10. Honors and Awards Committee Report**

### a. Solicitation for TAA

Hassan reported on behalf of Choe that the deadline was July 1.

### b. Young Professional Thermal Hydraulics Research Competition

Shripad reported on behalf of Todd that the same practice shall be followed as last year.

### c. New Fellow Nomination

Action Item: Honors and Awards Committee shall look into this matter.

## **8. Nominating Committee Report**

Rempe announced the new officers and executive members that will assume office after this June ANS meeting.

## **9. Membership Committee Report**

There was no report from the Committee.

## **10. Old Business**

None.

## **11. New Business**

None.

The meeting was adjourned at 6:35 p.m.

*Minutes prepared by K.Y. Suh*

**ATTACHMENT D**

**Treasurer's Report (September 8, 2008)**

For 2008, the Division's income of \$16,416 comes from the 2007 carry forward and our member allocation. The Division income from meeting revenue support is no longer received because the membership allocation has been increased from \$1/member to \$2/member. THD expenses are support for awards and plaques, the student conference at Texas A&M University in Feb.-March 2008, student travel support to the ANS Annual Meeting (June 2008) and the ANS Winter Meeting (November 2008), and scholarships including the NEED program.

<b>Revenue</b>		
<b>Type</b>	<b>Item</b>	
Member Allocation	\$2/THD Member	1,986
Carry Forward from 2007		14,430
Division Income from meeting revenue support		0
<b>TOTAL REVENUE</b>		<b>16,416</b>
<b>Expenses</b>		
<b>Type</b>	<b>Item</b>	
Awards, Plaques		0
Student Conference Support	Texas A&M Univ. meeting	2,500
Student Travel Support	June 08 Meeting	0
Student Travel Support	Nov. 08 Meeting	0
Scholarship/NEED	Scholarship/NEED and THD award support	0
<b>TOTAL EXPENSES as of 03/31/08</b>		<b>2,500</b>
<b>Balance as of 03/31/08</b>		<b>13,916</b>

### ***Awards-related expenses for the year 2008***

- Technical Achievement Award at \$1000
- Technical Achievement Award plaque at \$60
- Recognition plaque for Division Chair at \$60
- Young Professionals Thermal Hydraulic Research Presentation Award plaque at \$60
- Best Paper Award at \$500
- Best Paper Award plaque at \$60

### ***Income from NURETH-12***

The Division will be credited with \$10,698.32 as income from the NURETH-12 conference held in October 2007.

### ***2008 Budget***

For 2008, the Executive Committee approved the following expenses at the November 2007 meeting:

- \$1800 for awards and plaques (same as in 2007)
- \$2500 for ANS Student Conference support (down \$1000 from 2007)
- \$500 for student travel support to the ANS Annual and Winter meetings (same as in 2007)
- \$500 for Scholarship/NEED (same as in 2007)

### ***Spending Plan***

An ad-hoc Committee (Vierow, Rempe, and Cheung) was appointed by the Division Chair at the November 2007 Executive Committee meeting to evaluate the THD's long-term finances and recommend a spending plan. This plan was presented to the Executive Committee at the June 2008 meeting. Although the budget must be approved by the Executive Committee annually, the Executive Committee unanimously agreed to adopt the Ad-hoc Committee recommendations.

In order to ensure that there are sufficient funds available to withstand the three years between conferences in which revenue is generated, the Ad-hoc Committee recommended that the expenses be limited to \$3216/year. Currently, the Division has a 7-year reserve, including the NURETH-12 income. The ad-hoc committee recommended that this excess reserve be reduced to a 3-year reserve by allowing higher student support over the 2009-2013 years. Recommended spending would consist of \$1800/year for awards and plaques, \$2500/year for student support, and \$1000/year for scholarship/NEED support. The current practice of providing no funding for Division Officer expenses and national meeting costs is continued in the proposed spending plan.

***Kune Suh***  
2008-2009 Treasurer  
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## Attachment E

### ANS Student Conference Judges

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