

**Minutes of the Executive Committee Meeting  
ANS Thermal Hydraulics Division**

**2007 ANS Annual Meeting  
Boston Marriott Copley Place  
Boston, MA  
5:00 –7:00 PM, Sunday, June 24, 2007  
MIT Room**

**Attendees:** Karen Vierow, Chang Oh, L. E. Hochreiter, Shripad T. Revankar, Whee G. Choe, F. Bill Cheung, Kurshad Muftuoglu, Jong H. Kim, Dana A. Powers (NISD Liaison), Xiaodong Sun, Hisashi Ninokata, Cesare Frepoli, Robert Martin, Joy Rempe, K. Y. Suh (same order as in Attachment A)

1. Opening

Joy Rempe called the THD Executive Committee Meeting to order at 5:05 p.m.

2. Approval of Meeting Agenda

The meeting agenda was approved (Attachment B).

3. Minutes from November 2006 Winter Meeting

The meeting minutes from the November 2006 meeting in Albuquerque, NM (Attachment C) were approved pending the correction of the spelling on Kurshad Muftuoglu's name in item 8.

ANS Student Visit (impromptu addition to the agenda)

Brian Collins of Oregon State University expressed appreciation for the Division support of the ANS Student Conference at OSU last April.

Matt Gidden, co-chair of the 2008 ANS Student Conference, and Zach Bailey, both of Texas A&M University (TAMU), presented the plan for the next student conference. They requested assistance from the THD with judging and financial support. The conference will be held at TAMU on February 28 – March 1, 2008. THD member Karen Vierow, as the chapter's faculty advisor, and TAMU faculty member Yassin Hassan may also be contacted about the conference. Attachment D provides conference and support details.

4. Action Items from November 2006 Winter Meeting

a. Path forward for Inactive Program Committee Members

Bill Cheung presented a proposal for removing inactive PC members from the committee while retaining their Division participation (see Attachment E).

A suggestion was made to move all inactive PC members to an “emeritus list”. The intention was to avoid adding an extra layer by creating an “Advisory Council”.

The motion was modified to have a 5-year term instead of a 3-year term, and 5-year renewal terms. The modified motion was passed.

b. Governing Documents

Joy explained that the Division adopted the standard bylaws as required by ANS. The Division updated our Rules, which are posted on the THD website. Joy suggested that the Manual is no longer needed because the information contained in the Manual is now encompassed in the Procedures and Strategic Plan. Joy indicated that she will send around updated Rules, Procedures and the current Strategic Plan for the 07-08 Executive Committee to review and approve.

As an aside, Joy noted during the Professional Divisions meeting that the TH Division is in good standing with ANS. The Metrics received nearly all green boxes. There are several white boxes for items such as holding topical meetings because green boxes are only assigned if the topical meeting is held during the evaluation year.

5. Treasurer’s report

Chang Oh presented the Division’s financial report (see Attachment F).

Bob Martin and Karen Vierow noted that the member allocation did not seem to reflect the current THD roster. The Division received \$867 but Bob and Karen recalled that there were about 950 members. ANS allocated \$1/member.

**Action item:** Chang will contact ANS about the number of Division members.

It was noted that the Division should be receiving \$30/paper for papers submitted to ANS Annual and Winter Meetings after the Division has met the minimum required level of papers. However, these funds weren’t reflected in the Division’s financial report.

**Action item:** Chang will contact ANS about receiving the Division’s summary allocation.

Joy stated that the NEED allocation may become unnecessary because of ANS’s ongoing effort to fully fund all of their scholarships. A later discussion with Bill Naughton, ANS Treasurer until the end of this meeting, indicated that this is unlikely because ANS intends to continue requesting funding so they can increase these scholarships.

Expenses not included in the report:

- Technical Achievement Award at \$1000
- Best Paper Award at \$500
- Distinguished Service Award at \$750

Some members voiced concern that the expenses are exceeding the income. NURETH income is not constant. The Division may face debt in a few years.

**Action item:** Chang will update the Treasurer's report with the above items.

## 6. Program Committee Report

### a. NURETH-12 report

Kurshad reported that 260 abstracts had been submitted and 190 full papers had been uploaded. Additional full papers can be accommodated if they are uploaded within two weeks.

Several immediate action items arose during the PC meeting and are recorded in the PC meeting minutes.

### b. NUTHOS-7 report

Kune Suh, the 2008 NUTHOS-7 Technical Program Committee Chair, referred to his introduction of the NUTHOS-7 plans during the PC meeting.

Final testing of the NUTHOS-7 website has been completed and it is ready to accept papers.

### c. NURETH-13 screening committee report

Joy relayed the PC's recommendation that the EC support the Japanese proposal to host NURETH-13 in Kanazawa Japan in 2009. The Screening Committee will hold off solicitations from other countries and suggest they consider hosting NURETH-14.

### d. 2007 ANS Winter Meeting, Washington, DC

Kurshad reported that the following sessions were proposed by the PC:

1. Research Needs and Current Developments in Best Estimate Computational Thermal Hydraulic Codes, Paper session – Muftuoglu, Woods
2. Research Needs and Current Developments in Best Estimate Computational Thermal Hydraulic Codes, Paper session, Panel session – Hochreiter, Frepoli
3. Young Member Paper Competition – Todd, Unal
4. General Thermal Hydraulics – Marshall, Hassan, Reyes

5. Co-sponsor of a Multiphysics session – Guillen, Larson
6. General Two-Phase Flow – Vierow, Rempe
7. Thermal Hydraulic Research Needs for GNEP – Larson, Sun, Unal, Suh

Reviews must be completed by Friday, July 6.

Request for addition to Monday, pm session\_(impromptu addition to the agenda)

On Behalf of Dr. Bill Sha, Bob Martin made a motion that Dr. Sha be given time to present his recent work at the Monday afternoon session Bob is chairing, “Uncertainty Treatment in Nuclear Science and Engineering” session. Dr. Sha’s suggested presentation was entitled, “Multiphase Flow Conservation Equations Are Differential-Integral Equations and Not a Set of Partial Differential Equations”.

The motion was passed. Dr. Sha will present at 4:15 pm, Monday afternoon.

#### 7. Honors & Awards Committee Report

Jong summarized some of the recent awards from 2006: Bill Cheung received the Technical Achievement Award; Cetin Unal became an ANS Fellow; and D. C. Groeneveld et al. received the THD Best Paper Award.

##### a. Solicitations for TAA

Whee reported that he solicited nominations for the Technical Achievement Award. The submittal deadline is July 1, 2007. To date, he has received one nomination package.

Whee noted that the THD Honors and Awards Committee is in need of one more elected member. Chang Oh was elected for another term.

Joy reminded the attendees that the TAA award is intended to be awarded at NURETH-12, but since it is a national award now, the awardee will also be recognized at the ANS Honors and Awards luncheon during the November ANS Winter Meeting in Washington DC.

##### b. Best Paper Award

Whee informed the attendees that the Division will not have a Best Paper Award this year due to the lack of thermal hydraulic conferences or other venue from which to choose papers.

##### c. Young Professional Thermal Hydraulics Research Competition

For Don Todd, Kurshad reported that Don intends to submit a paper to the competition. Theron Marshall will chair the session in his place. Other judges are Tom Larson, Cetin Unal, Joy Rempe and Kurshad Muftuoglu.

8. Nominating Committee Report

Bob listed the results of the 2007-2008 officer elections:

- Vice Chair/Chair Elect – Chang Oh
- Treasurer- Karen Vierow
- Secretary- Kune Suh
- Executive Committee member – Kurshad Muftuoglu
- Executive Committee member – Xiaodong Sun

Last year's Vice Chair/Chair Elect, Shripad Revankar, will become Chair at the end of the current meeting.

9. Membership Committee Report.

Bob questioned the membership number of 867 in Chang Oh's Treasurer's Report. He and Karen recall numbers from this spring about 100 higher than this figure. As noted above, Chang will contact ANS to determine this number because it affects the Division's income.

10. Old Business

None.

11. New Business

None.

The meeting was adjourned at 7:00 pm.

*Minutes prepared by Karen Vierow*

## Attachment A

## Attendee List

June 28, 2007

## TND Executive Committee Meeting

<u>Name</u>	<u>Tel.</u>	<u>Email</u>
Karen Vierow	979-458-0600	vierow@ne.tamu.edu
Chang Oh	208-526-7716	Chang.oh@inl.gov
L. E. HOCHREITER	(814) 865-6198	lehnae@engr.psu.edu
SHRIPAD T. REVANKAR	765-496-1782	shripad@ecn.purdue.edu
Whee G. Choe	(214) 812-4371	whee.choe@txu.com
F. Bruce Cheng	814-883-4261	fbcf@psu.edu
Kurshad Muftuoglu	412-374- <del>82</del> 5771	muftuok@westinghouse.com
Jong H. Kim	650-855-2671	jtkim@epri.com
DANA A. POWERS (NISD Liaison)	505-845-9838	dapower@sandia.gov
Xiaodong Sun	614-247-7646	sun.2@osu.edu
Hisashi NINOKATA	+81-3-5734-3056	hninokat@nr.titech.ac.jp
CESARE FREPOLI	412-374-4156	frepolc@westinghouse.com
Robert Martin	434-832-2319	RobertP.Martin@areva.com
Jay Rempel	208-526-2897	jay.rempel@inl.gov
K.Y. Suh	82-2-880-8324	kysuh@snu.ac.kr

**Attachment B**

**PROPOSED AGENDA**

**American Nuclear Society – Thermal Hydraulics Division**

**Executive Committee Meeting**

**Boston Marriott Copley Place  
Boston, MA**

**5:00 – 7:00 PM, Sunday, June 24, 2007**

**Location: MIT room**

1. Opening (Joy)
2. Approval of Meeting Agenda (All)
3. Minutes from November 2006 Winter Meeting (Karen)
4. Action Items from November 2006 Winter Meeting
  - a. Path forward for Inactive Program Committee Members (Bill)
  - b. Governing Documents (Joy)
5. Treasurer's Report (Chang)
6. Program Committee Report (Kurshad)
  - a. NURETH-12 report (Kurshad)
  - b. NUTHOS-7 (Kune)
  - c. NURETH-13 screening committee report (Joy)
  - d. 2007 ANS Winter Meeting, Washington, DC (Kurshad)
7. Honors and Awards Committee Report (Jong)
  - a. Solicitations for TAA (Whee)
  - b. Solicitations for Best Paper Award (Whee)
  - c. Young Professional Thermal Hydraulics Research Competition (Don Todd)
8. Nominating Committee Report (Bob)
9. Membership Committee Report (Bob)
10. Old Business (All)
11. New Business (All)

## **Attachment C**

(attachments from these minutes are not included)

### **Minutes of the Executive Committee Meeting ANS Thermal Hydraulics Division**

**2006 ANS Winter Meeting  
Albuquerque Convention Center  
Albuquerque, New Mexico  
5:00 –7:00 PM, Sunday, Nov. 12, 2006  
Acoma Room**

**Attendees:** Kurshad Muftuoglu, Yassin A. Hassan, Joy Rempe, Jose Reyes, Chang Oh, Don Todd, Dana A. Powers (NISD Liaison), Cetin Unal, Brian Collins, Jong Kim, F. Bill Cheung, Whee Choe, Cesare Frepoli, Hisashi Ninokata, L. E. Hochreiter, Karen Vierow, T. K. Larson (same order as in Attachment A)

#### 1. Opening

Joy Rempe called the THD Executive Committee Meeting to order at 5:15 p.m.

#### 2. Approval of meeting Agenda

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

#### 3. Minutes from June 2006 Annual Meeting

The meeting minutes from the June 2006 meeting in Reno, NV (Attachment C) were approved.

#### 4. Action Items from the June 2006 Annual Meeting

##### a. Bylaws & Rules Update

Joy reviewed the bylaws and rules reporting that all divisions agreed to adopt a standard set of bylaws. The rules also change. An EC vote is sufficient to adopt these. Joy brought up the option for THD to have a vote by general membership. The EC decided to accept the standard bylaws without a general vote.

*Action item:* Joy will revise the rules with input from Bob.

##### b. TAA Endowment Opportunity and National Recognition

Joy distributed the letter that was submitted to ANS Honors and Awards requesting elevation of the THD TAA to national award status (Attachment D).



As a member of ANS National Honors and Awards, Joy will present the letter to the committee. A special fund has been established to endow the TAA. It already has \$2500.

Note: The request to elevate the THD TAA to national award status was subsequently approved by the ANS H&A Committee and the ANS Board of Directors during the ANS Winter meeting.

#### 5. Treasurer's report (Chang)

The division financial report is attached as Attachment E.

During the financial report, students from the 2007 ANS Student Conference to be hosted by Oregon State University presented conference plans. The conference will be held Mar. 29-Apr. 1, 2007. The students requested THD support by:

- financial contribution from the division
- judges for technical sessions
- hosts for booths at a career fair

The THD voted to donate \$3,000. Excerpts from the pamphlet soliciting support are attached in Attachment F.

#### 6. Program Committee Report

Kurshad mentioned that he obtained an updated email list from ANS.

The division had 7 sessions at Albuquerque and a record number of papers.

Five sessions are planned for the Boston meeting and the division is co-sponsoring 4 sessions. The submittal deadline is January 12, 2007.

##### a. NURETH-12 report

To date, only 10 abstracts had been submitted.

*Action item:* EC members are requested to submit as soon as possible.

A template is in place for submittals to host NURETH-13 (2009). A motion was passed for Kurshad to move forward with solicitation of hosts.

The NURETH-13 Screening Committee was voted as:

Chair: Joy. Members: Bill, Don, Kurshad, Yassin

Hisashi stated that Japan would like to host NURETH-13 in the historical town of Kanazawa.

b. MELCOR workshop

The MELCOR workshop was cancelled due to low enrollment.

c. NUTHOS-7

Jong announced that the 2008 NUTHOS-7 conference TP Chair is Kune Suh. Jong was unsure of the location.

*Action item:* Jong will request that Kune sends a conference summary to THD.

d. New PC members

Four new members were voted into the PC:

- Cesare Frepoli
- Donna Guillan
- Xiaodong Sun
- Pradip Saha

Two additional members will be considered because of their continued service to the division: Brian Woods and Theron Marshall.

Inactive members may be moved to a separate list as “advisors” or some other role. This issue will be discussed at the Boston meeting.

7. Honors & Awards Committee Report

a. TAA and Endowment Opportunity

Jong reported that Bill Cheung’s TAA presentation will be held Tuesday at 4 pm.

b. Best Paper Award

Yassin reported that many good papers had to be disqualified from the best paper competition because none of the authors were ANS members.

c. Young Professional Thermal Hydraulics Research Competition

Don reported that the first competition had high quality papers and that the winner was unanimously selected by THD members serving as judges for this competition.

d. New Fellow

Joy reported that Cetin Unal is a new ANS Fellow.

8. Nominating Committee Report

2006 candidates were approved as listed below:

- Chair- Shripad Revankar
- Vice Chair/Chair Elect – Chang Oh
- Treasurer- Karen Vierow
- Secretary- Kune Suh
- Executive Committee member – Kurshad Muftuoglu
- Executive Committee member – Xiaodong Sun

9. Membership Committee Report.

Membership is steady at 925 members.

10. Old Business

None.

11. New Business

None.

The meeting was adjourned at 6:25 pm.

*Minutes prepared by Karen Vierow*

# 2008 ANS National Student Conference

presented by

**American Nuclear Society  
Texas A&M Student Chapter**

**ANS Professional Division Sponsorship  
Information**



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## Statement of Purpose

The Texas A&M American Nuclear Society is seeking a mutually beneficial partnership with your Professional Division as we host the 2008 ANS National Student Conference. The underlying success of this partnership resides in professional development of students.

## About the 2008 ANS Student Conference

The ANS National Student Conference is an annual event hosted by the ANS student chapters at the country's leading nuclear academic institutions. The top nuclear engineering students nationwide assemble with professionals in the spirit of professional development and career advancement.

**Debuting Events for 2008** – The innovative events listed below are unique to the 2008 conference and aim to maximize the benefits of the conference for all parties involved.

- **Presentation Tracks Keynoted by Professionals** – Keynote presentations will be given at the end of each track session by a professional working in the topic area.
- **Private Recruitment Luncheons instead of a Plenary Recruitment Luncheon** – Students will be given a choice in which employer's recruitment luncheon they attend.
- **Interviews** – Career Fair Recruiters will be provided interviewing facilities.
- **ORNL Workshop** – A complementary SCALE5.1 workshop, courtesy of Oak Ridge National Laboratory.
- **University Fair** – Nuclear Engineering Departments will be offered *cost free* booths in the University section of the Career Fair.



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- **Engineering Challenge** – Schools will face off against each other and the All-Star Team of Industry Professionals in a timed engineering design and construction competition. Winning schools will receive significant donations to their department's general scholarship fund.
- **Embedded Topicals** – Both INMM (Institute of Nuclear Materials Management) and HPS (Health Physics Society) will be invited to host imbedded topicals in their specific areas of expertise. Additionally, related fields, such as Computer Science, Mathematics, and Physics from all participating schools will be strongly encouraged to participate.

**Traditional Events** – These are the standard events of the ANS Student Conference and return every year.

- **Student Presentations and Posters** – Students present their research in the same format as seen at the ANS professional conferences. Awards are given to the best presentation in each track as determined by a professional panel of judges.
- **Guest Speakers** – World class speakers from inside and outside the nuclear community speak to inform and inspire student audiences.
- **Career Fair** – The largest concentration of nuclear engineering students is complemented by the largest nuclear engineering career fair.
- **Tours** – Tours of the unique nuclear facilities at hosting university are provided.
- **Professional Development Seminars** – Topics of immediate student interest such as interviewing strategy and public speaking will be hosted by the nuclear industry's experts.



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## Direct Benefits to your Professional Division

Partnering with the ANS Student Conference will put your Professional Division in direct contact with over 500 of the nation's leading undergraduate and graduate nuclear engineering students, many being potential future members in your division. Focused sessions align student audiences with your Professional Division's interests.

### **500+ of the Top NE Students Nationwide**

This event boasts the highest concentration of nuclear engineering students assembled at one time. Nearly all academic nuclear programs attend this conference.

### **Sponsorship is Directly Tied to your PD's Interests**

This student conference aims to provide your Professional Division with increased student involvement within the Professional Division, now and in the future.

### **Presentation Tracks Align with your PD**

A student Presentation Track will carry the title of the Professional Division. This interaction and visibility aims to improve student awareness and involvement with the Professional Division, specifically amongst students currently doing research in your Professional Division's field.

### **Presentations are Judged by your PD**

Representatives of your Professional Division are asked to be the judges of the Student Presentations for your Professional Division's Presentation Track.



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<b>Awards are Presented by your PD</b>	A Representative of your Professional Division is asked to present the award for best student presentation (undergraduate and graduate) for your Professional Division's Presentation Track.
<b>Appointment of Student Representatives to your PD</b>	Students who win the award for best presentation in each track (one grad and one undergrad) will have the opportunity to be the Student Representative(s) to your Professional Division for the next year should the Division desire a representative. If the student(s) accepts the Student Representative position, they will attend the Professional Division's meetings and will be given the opportunity to present at a national meeting. The Student Representative will also receive partial/full conference travel reimbursement directly from the Professional Division during their tenure in office.
<b>Advertising and Visibility</b>	Presentation Track placards and the Conference Program will recognize the contributions and involvement of the Professional Division. Additionally the conference program will provide an informative description about your Professional Division.



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## How to Get Involved

In exchange for Sponsorship, your Profession Division will be invited to participate in the organized events mentioned in the previous section.

To become involved with the conference, have a representative contact:

Matthew Gidden  
Conference Co-Chair

American Nuclear Society  
Texas A&M University  
Department of Nuclear Engineering  
TAMU 3133  
College Station, TX 77843-3133

[matthew.gidden@gmail.com](mailto:matthew.gidden@gmail.com)  
225.892.3192

Our Conference Planners are committed to serving the interests of everyone involved in the conference. Please inform us of how we can further align the interests of your Professional Division with those of the Students, the Student Sections, and the Student Conference, present and future.



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## About the 2008 ANS Student Conference Hosts

The conference host is the Texas A&M University Student Chapter of the American Nuclear Society supported by the Texas A&M Department of Nuclear Engineering and the National American Nuclear Society.

### **Texas A&M ANS Student Chapter**

The Texas A&M American Nuclear Society (TAMU ANS) is not just a student professional society but also functions as the representative body for the students of the Texas A&M Nuclear Engineering Department. TAMU ANS works to enhance both the individual students and the Texas A&M Nuclear Engineering Department and Nuclear Community as a whole. Within the student body, TAMU ANS provides students with professional, academic and social development. Externally, TAMU ANS acts as the student interface to the department, companies, and community. There are no prouder members of the Fighting Texas Aggie Nuclear Engineers than the members of TAMU ANS.

### **Texas A&M Department of Nuclear Engineering**

We are the largest and fastest growing nuclear engineering program in the United States. With a current student enrollment of about 202 undergraduates, 109 graduate students and a faculty of 22, we are ranked fourth nationally (U.S. News and World Report) in undergraduate and fourth in graduate studies. The strong sense of family and community here at Texas A&M is emphasized by the faculty's commitment to the students in all facets of their education.



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## **Attachment E**

### **Operational Guideline on PC Membership**

#### **ANS Thermal Hydraulics Division**

To maintain an adequate number of active members and to assure a smooth and effective operation of the Program Committee, the following new operational guideline will be implemented immediately upon approval by the Executive Committee:

“Any PC member who has not attended the PC meeting or organized/chaired any technical sessions sponsored by the Division in more than two consecutive years will be considered non-active. All non-active members, once confirmed by the PC Chair, will automatically be advanced to the Advisory Membership of the PC. The vacancies will be replaced by new PC members according to the existing Rules for member replacement. An advisory member will serve as a consultant advising the PC Chair on various matters relevant to the operation of the Program, and will serve a fixed term of three years. At the end of his or her term, an advisory member may either retire from the PC or be renewed for another three-year terms based upon the recommendation of the PC Chair with the approval of the Executive Committee. There is no limit on the number of terms that an advisory member may serve.”

Motion dated: June 3, 2007

Motioned by: F. Bill Cheung

Motion seconded by: Joy L. Rempe

\*\* The motion was modified to have a 5-year term instead of a 3-year term and 5-year renewal terms.

## Attachment F

### Treasurer's report (May 8 2007)

For the FY 2007, the Division's income of \$17,996 comes from the FY-06 carry forward and member allocation. THD expenses are from student conference at the Oregon State University, student travel supports for ANS Annual Meeting (June 2007) and ANS Winter Meeting (November 2007), and scholarship/need  
The detail of the fund balance is summarized below.

Revenue		
Type	Item	
Member Allocation	\$1/THD Member	867
Carry Forward from 2005		17,129
<b>TOTAL REVENUE</b>		<b>17,996</b>
Expenses		
Type	Item	
Student Conference Support at Oregon State University	RELAP5 Workshop and others	3,000
Student Travel Support	June 07 Meeting	250
Student Travel Support	Nov 07 Meeting	250
Scholarship/Need	ANS/Need scholarship	500
<b>TOTAL EXPENSES</b>		<b>4,000</b>
<b>Balance as of May-8-07</b>		<b>13,996</b>

**Chang Oh**

THD Treasurer, 2006-2007