

Minutes of the Executive Committee Meeting

**Thermal Hydraulics Division
2011 American Nuclear Society Annual Meeting
The Westin Diplomat Resort and Spa, Hollywood, Florida
4:30 – 6:00 PM, Sunday, June 26, 2011
Location: Room 312**

Attendees: Hisashi Ninokata (Chair), John Luxat, Joy Rempe, Whee Choe, Si Young Lee, Francesco D’Auria, Jong H. Kim, Elia Merzari, DuWayne Schubring, Kurshad Muftuoglu, David Aumiller, Steven Arndt, Kune Y. Suh, Brian Woods, Paolo Ferroni, Xiaodong Sun, and Yassin Hassan (Same order as in Attachment A)

1. Opening

Chair Ninokata called the THD Executive Committee Meeting to order at 4:40 p.m. Chair Ninokata indicated that the THD Executive Committee Meeting minutes from the November 2010 Meeting in Las Vegas, NV were approved via email in December 2010. He also acknowledged the support and help from other THD officers with THD matters since March 11, 2011.

2. Approval of Meeting Agenda

The meeting agenda was introduced and reviewed. Several corrections/changes were made. The revised agenda (Attachment B) was approved.

Before proceeding to Item 3, Chair Ninokata invited Georgia Tech and University of Nevada, Las Vegas (UNLV) ANS Student Conference Delegations to report the 2011 ANS Student Conference and present an update on the preparation of the 2012 ANS Student Conference, respectively. The 2011 Student Conference was held at the Hyatt Regency Downtown Atlanta, April 14-17, 2011. Amy Varallo, a representative from the Georgia Tech student delegation thanked the support from the ANS THD. The conference was well attended with a record number of 672 attendees, including 50 internationals. There were a total of 123 podium presentations and 42 posters.

Vanessa Sanders, a representative from the UNLV student delegation introduced the preparation of the 2012 ANS Student Conference, which will be held at the UNLV Student Union, April 12-15, 2012. Technical presentations, career fair, poster sessions, workshops, and tours to the Atomic Testing Museum and others are being planned. Sanders urged the THD members to serve as technical judges.

A report from the 2011 Conference and a flyer for the 2012 Conference were circulated at the EC meeting (Attachment C).

3. Action Items from 2010 Winter Annual Meeting

Chair Ninokata indicated that one of the agenda item under this section was deleted due to its error (See Section 2 above). The following numbering in this section reflects that correction.

- a. Title, topic and format of the proposed embedded T-H topical for discussion (Muftuoglu)

Muftuoglu reported that the topics of this embedded topical meeting (to the ANS 2012 Winter Meeting in San Diego) would be very similar to the technical tracks in the recent NURETH meetings. There were some concerns from the members present about any potential conflict between this proposed embedded topical meeting and NUTHOS-9, which covers reactor thermal hydraulics, operation, and safety. It was recognized that: 1. The US participation in the NUTHOS series has not been significant historically. For example, there were only 15 US attendees out of a total of 211 participants and 16 papers from the US out of a total of 240 papers in the most recent NUTHOS-8 held in October 2010 in Shanghai, China. Therefore, this embedded topical may not considerably impact the contributions from the US to NUTHOS-9; 2. This proposed embedded topical meeting will be the first one in its series. After this embedded meeting, THD will evaluate the meeting's performance and decide whether to continue this series. It was also reminded that the THD EC voted and approved this proposed meeting at the 2010 ANS Annual Meeting in San Diego, CA.

A discussion was also held about the title of the embedded topical. Muftuoglu indicated that he would summarize the discussion and propose the topical meeting organizers after this ANS Annual Meeting.

Action: Propose the final title and meeting organizers of the embedded topical meeting, and communicate the information with the THD EC members via email for comment by August 1, 2011 (Muftuoglu)

- b. Potential of setting up an endowment account for awards with ANS HQ (Aumiller)

Aumiller reported that no response had been received after contacting the ANS HQ regarding this matter. He will meet Christian Krapp of ANS HQ financial department about this issue at this June meeting.

Action: Follow up with Christian Krapp of the ANS HQ on the possibility of setting up an endowment account for THD awards (Aumiller)

- c. Providing a list of active Program Committee members and recommending new PC members (Muftuoglu)

One member indicated that a list of active Program Committee members had been compiled and updated at the ANS THD website. Muftuoglu indicated that he would check on this.

Action: Report the findings back to the THD EC at the ANS 2011 Winter Meeting (Muftuoglu and Schubring)

d. Guidance for preparation of position statements (Ninokata)

Chair Ninokata reported that this item was not completed mainly because he became very busy after the Fukushima Daiichi Nuclear Power Plant reactor accident. He indicated that he would continue work on this and report back at the ANS 2011 Winter Meeting.

Action: Continue developing guidance for preparation of position statements and have a draft ready for discussion at the 2011 Winter Meeting (Ninokata)

4. Treasurer's Report

Aumiller reported that a recent financial status update was included in the THD 2011 Spring Newsletter. The following is an excerpt from the Newsletter.

For 2010, the Division's income of \$22,779 included the 2009 carry forward (\$19,001), our 2009 member allocation (\$2,068) and income from national meetings (\$1,710). The Division's expenses for 2010 included the following:

- \$2,000, donation to the ANS student conference at the University of Michigan in April 2010
- \$500, donation to the ANS for student travel support to the 2010 ANS Annual Meeting and Winter Meeting
- \$500, donation to the ANS for Scholarship/NEED program
- \$1,789 in Award-related expenses as follows:
 - THD Technical Achievement Award for 2010 at \$1,000
 - Best Paper Award at \$500
 - Total for Outgoing chair, Best Paper and Technical Achievement Award plaques of \$289
- \$23 postage

The balance of the THD general funding account at the close of 2010 was \$17,967.

a. 2011 Division Financial Status: Update

The Executive Committee approved the following expenses at the November 2010 meeting:

- \$1,800 for awards and plaques
- \$500 total for student travel support to the 2011 ANS Annual Meeting and Winter Meeting
- \$2,000 targeted to student support with details to be identified by THD

- \$500 for Scholarship/NEED program

For 2011, the year-to-date Division's income of \$20,225 includes the 2010 carry forward (\$17,967) and our 2010 member allocation (\$2,258). The total expenses by May 23, 2011 were \$1,000, including two donations to the ANS, \$500 each, for student travel support to the 2010 ANS annual meetings and for Scholarship/NEED program. The estimated balance of the THD general funding account as of May 23, 2011 is \$19,225.

5. Program Committee Report

a. NURETH-14 Planning (Luxat)

This item was discussed during the Program Committee Meeting. Luxat reported that about 450 papers had been accepted and that the conference planning was proceeding well.

b. NUTHOS-9 Planning (Ninokata/J. Kim)

This item was discussed during the Program Committee Meeting. Chair Ninokata indicated that the NUTHOS-9 organizers proposed to change its meeting date to May 2013, which conflicts with NURETH-15, and that this change was unacceptable. Chair Ninokata reported that the above THD standing had been communicated with the meeting organizers. He will check with Dr. Jason Chao and report back to the THD EC about the update.

Note: After this THD EC meeting, the NUTHOS-9 meeting organizers proposed September 9-13, 2012 as the meeting date. The meeting was later approved as a Class IV meeting by the ANS National Program Committee (NPC) held at the ANS Headquarters on July 12, 2011.

c. NURETH-15 Planning (D'Auria)

This item was discussed during the Program Committee Meeting. D'Auria reported that the NURETH-15 meeting proposal was just approved by the ANS NPC as a Class II meeting. The meeting planning had started.

d. 2011 ANS Annual Meeting Program in Hollywood, FL (Muftuoglu)

This item was discussed during the Program Committee Meeting. A total of 62 extended summaries were submitted to THD sessions and 57 were finally approved for presentation in 9 sessions (including 2 half sessions) at this ANS Annual Meeting. Muftuoglu emphasized that there had recently been a downward trend in reviewer participation in THD paper review and urged more active participation from the THD PC/EC members.

e. 2011 ANS Winter Meeting Program in Washington, DC (Muftuoglu)

This item was discussed during the Program Committee Meeting. Muftuoglu indicated that from the number of the papers received, it appeared that there would be 7 to 9 THD sessions at this winter meeting.

There were some discussions about the long lead-time required by the ANS on the extended summaries for its national meetings and the possibility of making the lead-time one to two weeks shorter to accommodate more submittals. It was recognized that the ANS typically publishes a preliminary program a couple of months ahead of the actual meeting. Muftuoglu agreed to contact the ANS NPC chair about this concern.

Note: Muftuoglu later reported after contacting Ray Gabaldon, chair of the NPC, and Ellen Leitschuh, the ANS Transaction coordinator, that an extension of the submission deadline would not be possible due to the earlier start of the ANS 2011 Winter Meeting (October 30 instead of usual mid-November).

6. Honors and Awards Committee Report

- a. TAA and Best Paper Award Solicitation for 2011
- b. New Fellow Nomination

Rempe reported that Prof. Per Peterson was selected as the 2010 TAA recipient. The award presentation and the special lecture by Prof. Peterson were held during the ANS 2010 Winter Meeting at Las Vegas, NV. Drs. Elia Merzari and Hisashi Ninokata were the Best Paper Award recipients for their paper titled “Proper Orthogonal Decomposition of the Flow in a Rod-Bundle” that was published in the proceedings of NURETH-13 held in October 2009 in Kanazawa, Japan.

Rempe indicated that since she would be rotating off as chair of the THD’s Honors and Awards Committee, Prof. Shripad Revankar, the new chair of the Committee would solicit TAA and Best Paper award nominations and be responsible for new fellow nomination.

Action: *Solicit TAA and Best Paper Award nominations* (Revankar)

7. Young Professional Thermal Hydraulics Research Competition

- a. Travel support to student and young professional participants

Merzari reported that the Young Professional Thermal Hydraulics Research Competition will be held at the Winter Meeting in Washington, DC. A total of 9 summaries were submitted to this competition session by June 24, 2011. He urged THD EC/PC members to volunteer as judges for this competition session.

Discussions on travel support were held under in conjunction with Item 7.b below.

b. Strategy of enhancing participation from young professionals

It was pointed out that this competition session was originally intended for those who have limited research experience in thermal hydraulics field (i.e., within a certain number of years after having received their most recent degree from universities), instead of for students attending school. It was recognized that the main reasons for lack of the participation from young professionals to this competition session are: 1. Lack of the financial support to travels from their home organizations/employers and 2. Lack of interest in submitting 900-word extended summaries. Many young professionals prefer full-length papers instead of these relatively short summaries. One member proposed to have full-paper competition at the proposed embedded topical meeting to the 2012 ANS Winter Meeting.

Extensive discussions were devoted to how to provide support to students in conjunction with Items 7.a above. The discussions were also relevant to Item 4.a, as to identify the details of how to distribute the “\$2,000 targeted to student support.” The following motion was finally moved and seconded:

To provide \$100 support per student to those students who have submitted a paper to the THD sessions at the ANS 2011 Winter Meeting and who attend this Winter Meeting (maximum one student support per one THD paper submitted).

A note to that motion is that THD will only be able to support a maximum of 20 students (due to the \$2000 budget limit) and therefore, this will be a first-applied, first-served situation. When this motion was moved and seconded, there were only 6 EC voting members present out of a total of 12 eligible to vote. Due to the lack of a quorum, this motion was tabled and Chair Ninokata indicated that an electronic vote via email would be called.

Note: After the ANS 2011 Annual Meeting, the motion was re-introduced via email and an electronic vote was called by Chair Ninokata. The motion was approved by the THD EC.

Action: Communicate the travel support opportunity to the students who have submitted a paper to THD sessions at the ANS 2011 Winter Meeting (Woods)

8. Public Relation

a. Division Website Report (Schubring)

Schubring provided an update about the THD website: The information related to the officers and EC members, their contact information, newsletters, and call for papers had been updated, among many others.

Chair Ninokata reported that ANS HQ was collecting comments from professional divisions about their IT needs. It appeared that the current IT support was adequate to THD's needs and that THD had no additional IT needs. Members were encouraged to convey their comments to Brian Woods, the incoming THD EC chair.

b. THD Newsletter, ANS News, and Nuclear Café

THD 2011 Spring Newsletter was issued and broadcasted to THD members from ANS prior to this ANS Annual Meeting.

9. Nominating Committee Report

The 2011 Executive Committee membership and officers were reviewed.

Incoming THD Officers approved by ANS (July 2011-June 2012)

Chair

Brian Woods

Vice Chair/Chair-Elect

Xiaodong Sun

Secretary

David Aumiller

Treasurer

Si Young Lee

Incoming THD EC Members approved by ANS

Fan-Bill Cheung (3 years)

Yassin A. Hassan (3 years)

Jong H. Kim (3 years)

DuWayne L. Schubring (3 years)

Current EC members

David Aumiller (2012)

Stephen Bajorek (2012)

Cesare Frepoli (2012)

Randall O. Gauntt (2012)

John Luxat (2012)

Xiaodong Sun (2012)

Brian Woods (2012)

Steven Arndt (2013)

Si Y. Lee (2013)

Fan-Bill Cheung (2014)

Yassin A. Hassan (2014)

Jong H. Kim (2014)

DuWayne L. Schubring (2014)
Hisashi Ninokata [ex-officio]
Mikey C. Brady-Raap [ex-officio]

THD Committee Chairs

Program Committee: Kurshad Muftuoglu (2012)
Honors and Awards Committee: Shripad Revankar (2012)
Nominating Committee: Hisashi Ninokata (2012)
Membership Committee: Hisashi Ninokata (2012)

Retiring EC Members

Hee Cheon No (2011)

ANS Staff Liaison

Sharon S. Kerrick

Action: Nominate new EC members (Ninokata)

10. Membership Committee Report

The current division membership stands at 1,129 members, which represents approximately 9.8% of the total ANS Membership. The THD membership had a 9.2% growth from the previous year (1,034 THD members in 2009).

11. Old Business

- a. Reminder of THD special events at this meeting

Chair Ninokata reminded the members of the two special sessions on Fukushima Daiichi nuclear power plant accident (Monday and Tuesday afternoons) in addition to the 9 THD sessions at this meeting.

- b. THD Position Statement

This item was discussed under Item 3.d in the above. Chair Ninokata indicated that he would continue working on this item.

12. New Business

- a. Petition of creating Nuclear Non-proliferation Safeguard and Security TG (Ninokata)

Chair Ninokata reported that the ANS Special Committee on Nuclear Nonproliferation had petitioned to the Professional Division Committee (PDC) that a Nuclear Nonproliferation Technical Group (NNTG) be reformed. THD will need to vote on this matter at the PDC meeting on Wednesday at this ANS meeting. A brief discussion on this petition followed. It was pointed out that this Special Committee on Nuclear Nonproliferation had been active for

over 10 years and that it would be beneficial to have such a technical group for members of interest to participate in. However, at this EC meeting, no written information about this petition and the mission of this proposed technical group was available. In view of this and the fact that the EC members present when this issue was discussed did not constitute a quorum, it was decided that an electronic vote would be called later by Chair Ninokata.

Action: Request information about this petition and the mission of the proposed NNTG from Sharon Kerrick of ANS (Sun)

Action: Call for an electronic vote on THD's standing of this petition (Ninokata)

Note: Sun sent an email request to Sharon Kerrick for information about this petition on June 17, 2011 and received a written document about the mission of the proposed NNTG and background information of this petition. Chair Ninokata called an email voting regarding THD's standing on this matter on June 28. By the end of the ANS 2011 Annual meeting, no sufficient-number votes were received and therefore it was decided that this issue be carried over to the 2011-2012 EC to consider. However, on July 7, 2011, Kerrick requested THD report its position on this matter to the PDC by July 15, 2011 to help the PDC make a decision on the petition. An email voting was re-called upon by incoming Chair Woods, who later reported back to Kerrick on July 13, 2011 after having received votes from a majority of the EC members that THD supports the petition of forming the NNTG.

The following is an excerpt from the NNTG written document about its mission:

The mission of the Nuclear Nonproliferation, (NN) Technical Group (TG) [Professional Division (PD)] is to promote the peaceful use of nuclear technology while simultaneously preventing the diversion and misuse of nuclear material and controlled technologies through the promotion of new and accepted nuclear nonproliferation policies.

- b. THD's participation in Embedded Topical International Meeting on Severe Accident Assessment and Management: Lessons Learned from Fukushima Daiichi

Sun reported that NISD with OPD and ESD had proposed to sponsor an embedded topical meeting on severe accident (see the exact title above) to the ANS 2012 Winter Meeting in San Diego and suggested that the THD should consider being a co-sponsor of this meeting. Muftuoglu reported that at the NPC Screening Committee meeting, the representative of the NISD welcomed THD's participation in this embedded topical. A motion was moved and seconded for the THD to be a co-sponsor of this proposed embedded topical meeting on severe accident. The EC members present when this was discussed voted to support the motion.

- c. Appreciation to the service by Chair Ninokata

The incoming EC chair Woods thanked the service by Chair Ninokata and presented him a plaque.

13. Others

None.

There being no further business, the meeting was adjourned at 6:15 pm.

Minutes prepared by Xiaodong Sun

Attachment A

Thermal Hydraulics Division Executive Committee
 American Nuclear Society 2011 Annual Meeting
 The Westin Diplomat Resort and Spa, Hollywood, FL
 4:30 - 6:30 PM, Sunday, June 26, 2011
 Location: Room 312
 Attendance Signup Sheet

Name	Affiliation	Email	Phone
Hisashi Ninokata	Tokyo Inst Tech	hininkat@nri.titech.ac.jp	+81-3-5764-8056
John Luxat	McMASTER U.	luxatj@mcmaster.ca	ext 24670 905-525-9140
Joy Renner	INL/ARS	jrenner@cablcore.net	208 520 3708
Whee Choe	ENEC	whee.choe@enec.gov.ae	+971 2 6595704
Si Young Lee	SRNL	si.lee@srnl.doe.gov	803 725 8462
Franco D'Auria	VMV. PISA	dauria@ing.unipi.it	+39-050-221039
Jong Kim	KAIST/EPRI	jkim@epri.com	650-855-2204
Elia Merzari	ANL	merzari@anl.gov	630-252-6637
DuWayne Schubring	U-Florida	dschubring@ufl.edu	352-392- 1401 x319
Kurshad Muftuoglu	GEH	kurshad.muftuoglu@ge.com	910-338-1467
David Aumiller	BMPC	David.Aumiller.Contract@unpp.gov	412-476-6687
Steven Schmidt	NRC	Steven.Schmidt@nrc.gov	301-415-6502
Kyeong Suh	SNU	kyesuh@snu.ac.kr	82-2-880-6324

Attachment B

PROPOSED AGENDA

American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
The Westin Diplomat Resort and Spa, Hollywood, FL
4:30 – 6:00 PM, Sunday, June 26, 2011
Location: Room 312

1. Opening (Ninokata)
2. Approval of Meeting Agenda (All)
3. Action Items from 2010 Winter Meeting
 - a. Title, topic and format of the proposed embedded T-H topical for discussion (Muftuoglu)
 - b. Potential of setting up an endowment account for awards with ANS HQ (Aumiller)
 - c. Providing a list of active Program Committee members and recommending new PC members (Muftuoglu)
 - d. Guidance for preparation of position statements (Ninokata)
4. Treasurer's Report (Aumiller)
 - a. 2011 Division Financial Status: Update
5. Program Committee Report (Muftuoglu)
 - a. NURETH-14 Planning (Luxat)
 - b. NUTHOS-9 Planning (Ninokata/J. Kim)
 - c. NURETH-15 Planning (D'Auria)
 - d. 2011 ANS Annual Meeting Program in Hollywood, FL (Muftuoglu)
 - e. 2011 ANS Winter Meeting Program in Washington, DC (Muftuoglu)
6. Honors and Awards Committee Report (Rempe)
 - a. TAA and Best Paper Award Solicitation for 2011
 - b. New Fellow Nomination
7. Young Professional Thermal Hydraulics Research Competition (Collins/Merzari)
 - a. Travel support to student and young professional participants
 - b. Strategy of enhancing participation from young professionals
8. Publication Relation
 - a. Division Website Report (Schubring)
 - b. THD Newsletter, ANS News, and Nuclear Cafe
9. Nominating Committee Report (Vierow)
10. Membership Committee Report (Vierow)
11. Old Business (All)
 - a. Reminder of THD special events at this meeting
 - b. THD Position Statement (Ninokata)
12. New Business (All)
 - a. Petition of creating Nuclear Non-proliferation Safeguard and Security TG (Ninokata)
13. Others

2011 ANS Student Conference

Hosted by the Georgia Institute of Technology in Atlanta, GA

Summary and Facts At-a-Glance

Dates:	April 14-17, 2011
Location:	Hyatt Regency, Downtown Atlanta
Attendance:	672 (new attendance record)
Demographics/Statistics:	505 students from 44 different colleges/universities 167 professionals from 76 different companies/organizations 50 international attendees 48 participating companies/organizations in Exhibit Fair 12 guest speakers 8 professional workshops
Technical Tours:	Plant Vogtle – Waynesboro, Georgia MOX Fuel Fabrication Facility – Aiken, South Carolina NRC Technical Training Center – Chattanooga, Tennessee
Student Presentations:	123 podium presentations 42 posters 22 awards given

We would like to extend a thank you to all of the Professional Divisions for their continued support of the ANS Student Conference!

Further information about the conference can be found on the conference website at <http://gtans.org>.

ANS 2012 Student Conference

“Nuclear Science and Technology: Past, Present and Future”



CONFERENCE HIGHLIGHTS

TECHNICAL SESSIONS

We have the ability of holding up to seven concurrent technical sessions with minimal conflicting events, offering more students an opportunity to share their research.

ATOMIC AGES SOCIAL

Meet up with old friends and make new connections at the 1950s themed rooftop social on Thursday evening. Dance to your favorite cold war tunes or pose for a photo in 1950s garb!

TOURS

Tours will be available of the Nevada National Security Site, Atomic Testing Museum, Varian Medical Systems and the UNLV science & engineering laboratories.

ORAL HISTORY ROOM

Guests are invited to take a step back in time by viewing photographs and video clips collected from the weapons testing era and shared by the Nevada Test Site Oral History Project.

About the Conference

The ANS Student Section at the University of Nevada, Las Vegas is pleased to host the 2012 ANS Student Conference in fabulous Las Vegas, Nevada! Hosting the ANS Student Conference for the first time gives many nuclear science and engineering students their first opportunity to experience our unique facilities in Nevada. We are sure that we will deliver an exciting and technically diverse conference that should not be missed!

ANS Student Section at UNLV

The UNLV ANS Student Section was founded in 2003 as the university was starting up its nuclear engineering and radiochemistry programs. Student section members are drawn from the three prestigious and fast growing nuclear based programs; materials and nuclear engineering (M.S.), radiochemistry (Ph.D.), and health physics (B.S. and M.S.). The composition of student members from the three degree programs gives the UNLV ANS student section its diversity and resources that make it so awesome!

Conference Details

Attendance to student conferences has been steadily increasing in the past several years. Due to this trend, we estimate an attendance upwards of 750.

Guests accommodations will be available at the all suite Alexis Park Resort. The property is a non-gaming resort on lushly landscaped grounds with 3 sparkling pools.

Conference events will be held at the UNLV Student Union which offers nearly 30,000 square feet of flexible meeting space.



Program Details

Technical presentations: the main focus of the student conference. General areas that abstracts will be drawn from include:

- Nuclear Engineering
- Nuclear Science
- Radiochemistry
- Nuclear Policy
- Fuel Cycle
- Outreach

Career fair: offered to promote networking between students and professionals. Private interview rooms will be offered to top level sponsors. Dinner will be hosted in the career fair on Friday night, giving all attendees time to socialize after a day of technical sessions.

Poster session: held on Saturday afternoon after the career fair closes, offering professionals a chance to interact with students that are presenting posters. The posters will be set up first thing Saturday morning so attendees can view them throughout the day, with the opportunity to ask questions during the poster presentation session later in the afternoon.

Workshops: both technical and non-technical workshops will be offered to all conference attendees.

