

Minutes of the Program Committee Meeting

**Thermal Hydraulics Division
2011 American Nuclear Society Annual Meeting
The Westin Diplomat Resort & Spa, Hollywood, FL
2:30 – 4:30 PM, Sunday, June 26, 2011
Location: Room 312**

Attendees: Kurshad Muftuoglu (Chair), David Aumiller, Donna Guillen, Akira Tokuhiko, Wade Marcum, Philippe Bardet, Dave Pointer, Xiaodong Sun, Hisashi Ninokata, Sama Bilbao y Leon, John Luxat, Joy Rempe, Whee Choe, Si Young Lee, Francesco D’Auria, Jong Kim, Elia Merzari, DuWayne Schubring, Jovica Riznic, Don Lorentz, Brian Woods, Yassin Hassan, Steven Arndt, Paolo Ferroni (Same order as in Attachment A).

1. Opening

Chair Muftuoglu called the THD Program Committee (PC) meeting to order at 2:37 p.m.

2. Approval of Meeting Agenda

The proposed meeting agenda was introduced and reviewed. Corrections were made to two typos. A motion was made to approve the revised agenda (Attachment B). All approved.

3. Minutes from November 2010 Winter Meeting

Chair Muftuoglu indicated that a draft copy of the meeting minutes from the November 2010 Winter Meeting in Las Vegas, NV (Attachment C) was distributed electronically prior to this PC meeting. Hard copies of the minutes were also distributed at this meeting for comment. Chair Muftuoglu pointed out that the November 2010 Winter Meeting minutes contained the minutes from the 2010 Annual Meeting as an attachment, which also had the minutes from the November 2009 Winter Meeting as an attachment to the above attachment. Therefore, the minutes became unnecessarily lengthy. He suggested that the past PC meeting minutes, once approved, not be attached to most recent PC meeting minutes since those approved PC meeting minutes are available at the ANS THD website.

A motion was moved and seconded to accept the November 2010 Winter PC meeting minutes. All approved and the meeting minutes were accepted.

4. Action Items from 2010 Winter Meeting

- a. Providing 100-word abstracts for new sessions proposed for 2011 Annual Meeting (Sun/Wong)

Chair Muftuoglu reported that this item had been completed.

- b. Evaluating the three proposals for NURETH-15 and providing a recommendation to the EC for approval by the end of January 2011 (J. Kim)

Chair Muftuoglu reported that this item had been completed. A report from the THD Conference Selection Committee (CSC) prepared by Dr. J. Kim, chair of the CSC, can be found in the THD Spring 2011 Newsletter.

5. Session Status of 2011 ANS Annual Meeting in Hollywood, FL (Muftuoglu)

- a. Submittal Statistics

Statistics for the meeting (Attachment D) were reviewed. A total of 62 summaries were submitted to THD sessions and 57 papers to be presented at this Annual Meeting (Note: Attachment D only includes those accepted). Efforts made by Dr. Xiaodong Sun at the ANS NPC meeting in February 2011 in finalizing the THD sessions were recognized.

- b. Submittal Statistics

Chair Muftuoglu indicated that the number of the reviewers participating in the review of the THD papers for this annual meeting went down although the number of papers increased. Contributions from various reviewers (see Attachment D) were recognized. In view of the increased needs of reviewers and to keep the summaries of high quality, Chair Muftuoglu urged more participation from the PC members to help with the summary review.

- c. Session Assignments

Chair Muftuoglu indicated that THD had a total of 9 sessions (including two half sessions) at this meeting. The information of the session co-chair assignments is included in Attachment D. Some adjustments were made to the assignments due to one member's early departure and one member not attending this meeting.

6. 2011 ANS Winter Meeting Program in Washington, DC (Muftuoglu)

- a. Announced Sessions/Organizers

Chair Muftuoglu indicated that the session information was included in the THD PC meeting minutes for the 2010 Winter Meeting. The list of the sessions is included as follows:

1. General Two-Phase Flow (Kuran/Schubring)
2. Experimental Two-Phase Flow (S. Kim/Oh)
3. Computational Thermal Hydraulics (Bajorek/Pointer)
4. Thermal Hydraulics Code Verification and Validation (Sun/Wong)
5. Thermal Hydraulics: General (Collins/Todd)
6. Young Professional Thermal Hydraulics Research Competition (Merzari)

One question was raised as to if a past winner of the Young Professional T-H Research Competition is eligible to participate in future competitions again. After some deliberations, the consensus is to have no restriction for past winners on their participation in future competitions. Dr. Elia Merzari reported that there might be two sessions for this competition at the 2011 Winter Meeting and that judges are needed to help judge the papers and presentations.

7. **2012 ANS Annual Meeting Program in Chicago, IL (Muftuoglu)**

The 2012 ANS Winter Meeting will be held in Chicago, IL. The following are the agreed upon tentative sessions for the 2012 ANS Annual Meeting along with the session organizers. Note that 100-word summaries are required for any new sessions that are proposed.

1. Thermal Hydraulics: General (Bardet/Woods)
2. Computational Thermal Hydraulics (Aumiller/Muftuoglu)
3. Thermal Hydraulics in Severe Accidents (Bilbao y Leon/Luxat)
4. Thermal Hydraulics in Rod Bundles (Merzari/Ninokata)
5. Used Fuel Pool Thermal Hydraulics (Pointer/Yan)
6. General Two-phase Flow (Sun/Marcum)

Chair Muftuoglu reminded the session organizers that the 100-word summaries for the newly proposed sessions are due by mid-July 2011.

Action: For newly proposed technical sessions, provide 100-word session descriptions to Program Committee Chair by mid-July, 2011 (Pointer/Yan)

8. **NURETH-14 Status (Luxat)**

Prof. John Luxat reported that good progress was being made for the conference. He commended Drs. Jovica Riznic and Chang Oh for their hard work on organizing NURETH-14 (to be held Sept. 25-30, 2011 in Toronto, Canada). Luxat also thanked the reviewers for their great contributions to the paper review process. An informational and planning meeting was held for NURETH-14 just prior to this PC meeting. Some statistics about the meeting can be found in Attachment E.

Luxat reported that about 450 papers had been accepted out of about 630 abstracts submitted. In addition to the regular parallel technical sessions, eight keynote lectures and three panel sessions (two shown in Attachment E and one more from Korea Advanced Institute of Science and Technology, KAIST) are being planned on. Luxat also indicated that many requests for invitation letters for visa applications had been received and processed, which implies good participation of the meeting.

Luxat also reported that the meeting organizers had been working hard to pursue more sponsorship and that the financial aspect of the meeting was good. He also indicated that the meeting registration was open.

A question was raised as to whether the conference would be able to provide financial assistance to students who attend the NURETH-14 meeting. It appeared the only means would be for the students to work as an assistant to the meeting.

9. ATH'12 (Advances in Thermal Hydraulics-2012) Embedded Topical Meeting Status (Muftuoglu)

Chair Muftuoglu reported that this proposed ATH'12 meeting would be the first of its series as an embedded topical meeting to an ANS national meeting. ATH'12 will be embedded to the ANS 2012 Winter Meeting at San Diego, CA, and will be between two NURETH meetings, i.e., NURETH-14 in 2011 and NURETH-15 in 2013, for full-length conference papers for THD members. Chair Muftuoglu suggested that this ATH series be held in even years regularly (every two years) or irregularly depending on the level of participation. He also reminded the meeting attendees that this proposed embedded topical meeting was approved by the THD EC in June 2010 and subsequently approved by the ANS National Program Committee (NPC) for Calendar Placement.

Concerns were raised about potential conflicts of this meeting with NUTHOS-9 and whether this meeting could be successful. Active discussions were devoted to these concerns. On one hand, it was noted that the next ICONE meeting would be held in July 2012 by the ASME and that the next ICAPP would be an embedded meeting to the ANS 2012 Annual Meeting. In addition, NUTHOS-9 will be held in May 2012. The proposed ATH'12 may be competing with the above meetings for papers and participants. On the other hand, it was recognized that there had been significant growth in the number of THD papers submitted to the recent ANS national meetings and that the desire to submit full-length papers appeared strong. It was also acknowledged that NUTHOS typically had limited participations from the U.S. In addition, one member argued that research activities in thermal hydraulics area had been increased over the recent years mainly from other countries and that as a result, more T-H related papers would be expected in the next few years. Furthermore, there will be no financial risk as an embedded topical meeting to an ANS national meeting. The proposed ATH'12 can also be scalable: there is no requirement on the number of papers submitted to this topical meeting. Finally, THD does not have to propose any regular summary session for that national meeting (It was however suggested to have 1 or 2 summary sessions on general thermal hydraulics in the national meeting to accommodate any interest for extended summaries, instead of full-length papers). This ATH series is similar to the NISD's Best Estimate embedded topical. It appeared that many members present at the meeting agreed to hold this embedded meeting as a first trial, but recognized rigorous planning is needed to make it a success.

Chair Muftuoglu indicated that 80 full-length papers would be expected for ATH'12. The Division will use ATH'12 as the first opportunity to evaluate the feasibility of having such an ATH series added to the THD's current list of major conferences. Chair Muftuoglu sought inputs from the members present on the final title of the embedded topical meeting. He also suggested that the topics of this embedded topical meeting be similar to the technical tracks in the recent NURETH meetings. In addition, Chair Muftuoglu suggested following:

- a. To inform soon the THD community of this embedded topical meeting on thermal hydraulics. A list of the proposed major technical tracks should be included in the announcement;
- b. To form a large technical program committee with the TPC members mainly from the current THD EC/PC members and active NURETH participants and to ensure a homogeneous representation from US/North America, Asia, and Europe;
- c. To form the organizing committee quickly;
- d. To utilize the current ANS electronic submission system for ATH paper submission and review.

One member present also suggested having keynote speakers and panel sessions to increase participations from the T-H community. This suggestion was well received by others. Comments were also raised to slightly limit the scope of ATH'12 and the number of accepted papers so that this meeting does not considerably impact the NURETH-15 meeting, which is to be held in May 2013 (only six months later).

Action: Propose the final title and meeting organizers, including the TPC, of the embedded topical meeting, and communicate the information with the THD PC members via email for comment with the target of having the organizers finalized by September 2011 (Muftuoglu)

10. NURETH-15 Planning (D'Auria)

Dr. Jong Kim, as the chair of the THD conference selection committee, announced that CSC recommended to the EC the proposal from Pisa, Italy for hosting NURETH-15. Prof. Hisasi Ninokata reported that the CSC's recommendation was approved by the EC unanimously.

Prof. Francesco D'Auria reported that the planning of NURETH-15 had started. The meeting is to be held May 12-17, 2013 at Pisa, Italy. The meeting organizers have selected chairs for the organizing committee and will be contacting individuals to finalize the technical program committee.

One question was raised about whether the Italian government's standing on nuclear energy would affect negatively the NURETH-15 meeting. D'Auria responded that the Italian government's investment on nuclear energy had been very limited. He concluded therefore that the government recent change on its position of nuclear energy would not considerably affect nuclear programs in Italy.

11. NUTHOS -9 Status

Chair Ninokata reported that the NUTHOS-9 organizers had proposed to change its meeting date from September 2012 to May 2013, which conflicts with NURETH-15. He indicated that this change was unacceptable and that the meeting organizers had been informed of the above THD position on the proposed date change.

A suggestion was made by a committee member that the NUTHOS series also be held in North America, in addition to the current Asian Pacific Rim.

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.

12. Old Business

a. TopSafe 2012 Meeting

D'Auria reported that TopSafe 2012 meeting, organized by the European Nuclear Society (ENS), is to be held in April 2012 at Helsinki, Finland. The meeting certainly covers reactor thermal hydraulics. D'Auria serves as chair of the technical program committee and has good connections with ENS. Chair Muftuoglu acknowledged the potential opportunity to enhance collaborative relationship between the ANS and ENS and agreed to take this to the ANS NPC chair.

b. New PC Member Candidates

Sun proposed the PC to consider two new PC member candidates, Dr. Eung Soo Kim of Idaho National Laboratory and Dr. Jin Yan of Westinghouse, both of whom had actively engaged in THD PC matters, in particular the paper review for the ANS national meetings.

13. New Business

There was no new business to discuss.

A motion was moved and seconded to adjourn the PC meeting. All approved. The meeting was adjourned at 4:30 p.m.

Minutes prepared by Xiaodong Sun

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 Attendance Signup Sheet

Name	Affiliation	Email	Phone
Kunshad Muftuoglu	GEH	kunshad.muftuoglu@ge.com	910-338-1467
David Acumiller	BMAP	david.acumiller.contractor@unp.gov	412-476-6687
Donna Guillen	INL	Donna.Guillen@inl.gov	208-526-1744
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Attachment B

PROPOSED AGENDA

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 - a. Submittal Statistics
 - b. Reviews
 - c. Session Assignments
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 - a. Announced Sessions/Organizers
7. 2012 ANS Annual Meeting Program in Chicago, IL (Muftuoglu)
8. NURETH-14 Status (Luxat)
9. ATH'12 (Advances in Thermal Hydraulics-2012) Embedded Topical Meeting Status (Muftuoglu)
10. NURETH-15 Planning (D'Auria)
11. NUTHOS-9 Planning
12. Old Business (All)
13. New Business (All)