Executive Committee Meeting Minutes

American Nuclear Society – Thermal Hydraulics Division
Executive Committee Meeting
Caesars Palace, Las Vegas, NV
4:30 – 6:00 PM, Sunday, November 6, 2016
Location: Neopolitan 2

Attendees:
Fatih Aydogan (EC Member), Lane Carasik (EC Member), Fan-Bill Cheung (EC Member), Paolo Ferroni (EC Member), Donna Guillen (EC Member), Yassin Hassan (EC Member), Seungjin Kim (chair), Jong Kim (EC Member), Si Young Lee, Jun Liao, Yang Liu, John Luxat, Wade Marcum (EC Member), Elia Merzari (EC Member), Kurshad Muftuoglu (Vice Chair), Hisashi Ninokata, W. David Pointer (Secretary), DuWayne Schubring (Immediate Past Chair), Dillon Shaver, Sandra Sloan (Board Liaison), Chul-Hwa Song (Treasurer), Xiaodong Sun, Bao-Wen Yang (EC Member)

Sign-in sheets are included in Appendix A.

1. Opening (Kim)

Prof. S. Kim, 2016-2017 Thermal Hydraulics Division Chair opened the Winter Meeting of the American Nuclear Society Thermal Hydraulics Division Executive Committee at 16:33 on Sunday, November 2, 2016. Quorum was established with 15 voting members present.

2. Approval of Meeting Agenda (All)

The proposed agenda was distributed and reviewed by those in attendance. Three additional action items were proposed under item 10. g. Motions from the Program Committee:

i. Approval of PC Membership
ii. Approval of Assignments to the PC Advisory Committee
iii. Approval of ATH2017 Organizing Committee Assignments

MOTION by Dr. Muftuoglu to approve the agenda as amended
SECONDED by Mr. Carasik
APPROVED without objection

3. Approval of Minutes from 2015 ANS Winter Meeting (All)

Draft meeting minutes for the THD Executive Committee Meeting at the 2015 ANS Winter Meeting were distributed by Dr. Muftuoglu for review. Corrections were previously offered by Dr. Schubring that have not yet been implemented. Additional corrections were offered by those in attendance.

ACTION ITEM – Dr. Pointer to distribute scanned copy of markup to Muftuoglu and all commenters by November 15.
4. Approval of Minutes from 2016 ANS Annual Meeting (All)

Draft meeting minutes for the THD Executive Committee Meeting at the 2016 ANS Annual Meeting were distributed by Dr. Muftuoglu for review.

**ACTION ITEM** – Dr. Muftuoglu will reconcile comments and present updated minutes for electronic approval by November 30.

5. Visitors from Student Conferences

Visitors representing the 2017 ANS Student Conference were unable to present due to conflicting appointments. Flyer provided is included in Appendix B

6. Action Items from 2016 Annual Meeting

   a. THD Reviewer Award (Merzari/Sun)

      Drs. Merzari and Sun reported that the first THD Reviewer Award will be given at the 2017 Annual Meeting.

   b. Investigate Slide Library (Muftuoglu/Aumiller/Lane)

      Dr. Muftuoglu reported that a document repository will be created on ANS Collaborate to capture images and slides for use by THD members. The subcommittee will establish a template for submissions, using the ANS Public Information Slide Library template as a reference. The EC agreed that the template should include a citation of ANS THD as the source of the slide, with THD logos and website information.

      Dr. Merzari mentioned that a copyright transfer has already been executed for the keynote presentations at NURETH16, so these can be included.

      **ACTION ITEM** – Dr. Muftuoglu will establish the ANS Collaborate Repository and report its availability to the EC.

   c. ANS Collaborate (Pointer)

      Dr. Pointer reported that no action has yet been taken to begin to populate ANS Collaborate.

      **ACTION ITEM** – Dr. Pointer will obtain administrative rights and begin to populate the THD Collaborate site by the end of the calendar year.

   d. ANS Standards Board Liaison Assignment (Kim)
Prof. S. Kim confirmed that Dr. Muftuoglu, as the THD vice chair, has been identified as the ANS Standards Board Liaison. Dr. Muftuoglu reported that he has not yet been contacted by the Standards Board.

e. Grand Challenges (Kim)

Prof. S. Kim thanked the EC for participating in the development and review of a list of grand challenges prior to the 2016 Winter Meeting. The top 5 Grand Challenges based on EC voting were identified at the ANS President’s Meeting with Division Chairs earlier on Sunday, November 6.

f. Scholarships (Pointer)

Dr. Pointer reported that updated guidance was provided by the chair of the Scholarship Policy and Coordination Committee earlier in the day on Sunday, November 6, but had not yet been reviewed.

ACTION ITEM - Dr. Pointer will review and report back to the EC before the end of the calendar year.

g. Reconstruction of Best Paper Award Winners List for Website (Shaver)

Dr. Shaver reported that Best Paper Awards can only be recovered from the Newsletter back to 1999 and prior awards may not be recoverable. EC members suggested that additional awards may be recoverable from EC meeting minutes back to 1996 and from archived division correspondence in prior years.

ACTION ITEM – Dr. Shaver will update the website to include the recoverable listing before the end of November.

h. Review Committee Membership Decisions from 2105 Winter Meeting (Muftuoglu)

Action resolved by distribution of the draft minutes. No discussion.

i. Develop criteria for NURETH fellows and identify previous recipients (Cheung)

Prof. Cheung reported that there has been no activity since the 2016 Annual Meeting, but that the committee will develop criteria in advance of the NURETH-17 conference. Prof. Schubring noted that the ad hoc committee should consider compliance with ANS discrimination and ethics rules.

ACTION ITEM – Prof. Cheung will work with the ad hoc committee to draft criteria for the selection of NURETH fellows and distribute via email to the EC for electronic approval before the end of the calendar year.

Prof. Cheung further suggested that the ad hoc NURETH Fellows Committee should be authorized to nominate 2 candidates for NURETH fellow each year to the THD Honors and Awards Committee for review.

MOTION by Prof. J. Kim to authorize the ad hoc NURETH Fellows Committee to
nominate 2 candidates for NURETH fellow each year to the THD Honors and Awards Committee
SECOND by Mr. Carasik
APPROVED by majority vote with no objections and 1 abstention recorded

7. Report from Professional Divisions Workshop (Kim)

Prof. S. Kim reported that all Professional Divisions are encouraged to make greater use of ANS Collaborate rather than relying exclusively on the listserv. Automation features of ANS Collaborate and the integrated member database simplify maintenance and the listserv will eventually be phased out.

Prof. S. Kim also reported that the current Chair of the National Program Committee, Dr. Muftuoglu, provided a primer on meetings. Dr. Muftuoglu noted that the THD EC should be aware that the proposed revision of profit sharing rules for embedded topical meetings did not pass and there has been no change to the formula.

Prof. S. Kim noted that all Professional Divisions are being asked to support the ANS Young Members Group in the development of content for the Young Professionals Congress to be held in conjunction with the 2017 ANS Annual Meeting. Prof. Kim asked that ideas be shared with the ANS YMG program committee.

8. Report from President’s Meeting with Division Chairs (Kim)

Prof. S. Kim reported that the discussion at the President’s Meeting with Division Chairs principally focused on the development of the ANS Grand Challenges. Additional guidance on the structure of Grand Challenge descriptions will be discussed in the ANS President’s Special Session at the 2016 Winter Meeting, but Grand Challenges should be posed in the form of a question. The deadline for submission of Grand Challenge ideas has been revised to March 3, 2017. Each Professional Division is asked to submit 1-3 ideas to ANS headquarters by March 24, 2017. Given the extended deadline, Prof. S. Kim will seek additional input from the THD membership at large.

ACTION ITEM – Prof. S. Kim will post the current list of Grand Challenges to ANS Collaborate for further discussion and revision.

9. Treasurer’s Report (Song)

Dr. Song reviewed the financial data as reported in the November 2016 THD Newsletter. Dr. Song proposed that student travel funds allocated in the 2016 budget be distributed to support student travel for the ANS Winter Meeting. Up to 10 awards of $150 will be made available on a first-come first-served basis to THD student members who attended the 2016 Winter Meeting and presented a paper in a THD session or HTR2016 Thermal Hydraulics Track session. If more than 10 responses are received in the first 24 hours after announcement, then awards will be made based on a random drawing.

ACTION ITEM – All EC members should review proposed 2017 budget for electronic approval before the end of the calendar year.
ACTION ITEM – Dr. Song, assisted by Dr. Pointer, will contact THD student members to announce student travel support opportunity.

Dr. Pointer raised concern that THD is always behind in the submission of fully approved annual budgets to ANS HQ and that this delay creates additional difficulty in reconciling financial reports with expectations.

MOTION by Dr. Pointer that THD will approve budget for the following year in June rather than November.
SECONDED by Dr. Muftuoglu
APPROVED without objection.

Dr. Pointer also raised concern that growing financial resources are increasing the time commitment of the Treasurer’s position and warrant more careful knowledge management than is often possible with a one-year appointment. He suggested that the EC consider establishing a subcommittee to assist the Treasurer.

ACTION ITEM – Prof. S. Kim will create an Ad Hoc Finance Committee to assist the THD Treasurer

10. Program Committee Report

a. 2016 ANS Winter Meeting Program in Las Vegas, NV (Merzari)
   Dr. Merzari referred the EC to the Program Committee Report since all were present for the Program Committee Meeting

b. 2017 ANS Annual Meeting Program in San Francisco, CA (Merzari)
   Dr. Merzari referred the EC to the Program Committee Report since all were present for the Program Committee Meeting

c. NUTHOS-11 Report (Song)
   EC Members were referred to the Program Committee Report since all were present for the Program Committee Meeting

d. HTR2016 Embedded Topical in Las Vegas, NV (Pointer)
   EC Members were referred to the Program Committee Report since all were present for the Program Committee Meeting

e. NURETH-17 Report (Yang)
   EC Members were referred to the Program Committee Report since all were present for the Program Committee Meeting

f. NUTHOS-12 Report (Merzari)
   EC Members were referred to the Program Committee Report since all were present for the Program Committee Meeting
g. Motions from the PC Meeting

Members of the EC were reminded by Dr. Merzari that motions presented by the Program Committee, as a standing committee, do not require a second.

i. Approval of Program Committee Membership

*MOTION by Program Committee to renew appointment of all Program Committee members with terms expiring in 2016 with the exception of except Drs. Choe, Rempe and Tzanos.*

APPROVED without objection

ii. Approval of Program Advisory Committee Appointments

*MOTION by the Program Committee to add Drs. Choe, Rempe and Tzanos to the Program Advisory Committee*

APPROVED without objection

iii. Slate for ATH Organizing Committee

Dr. Merzari introduced the following ATH’17 Organizing Committee slate

- **General Chairs:** Dr. Dominique Bestion, Prof. John Luxat and Prof. Xu Cheng
- **Technical Program Chairs:** Prof. Sama Bilbao y Leon, Dr. Sofiane Benhamadouche and Dr. Elia Merzari
- **Assistant Technical Program Chairs:** Prof. Ji Hwan Jeong and Dr. Piyush Sabharwhall

*MOTION by the Program Committee to approve the ATH’17 Organizing Committee slate as presented*

APPROVED without objection

h. NURETH-18 Planning

Dr. Muftuoglu noted that, in order to meet National Program Committee deadlines, the call for bids to host NURETH-18 should be released no later than mid-December and bids should be due no later than mid-February. Dr. Pointer noted that Local Sections may require 2 monthly Executive Meetings in order to authorize a proposal team and approve a bid for submission.

*ACTION ITEM –* Conference Selection Committee Chair to release call for bids to host NURETH-18 by December 15.

i. ICAPP18 Co-sponsorship and potential rescheduling of ATH’18
Dr. Merzari presented an opportunity for THD to become an official co-sponsor for the ICAPP18 topical meeting. Prof. Sun noted that THD members have supported the development of thermal hydraulics track sessions at the ICAPP series of topical meetings for many years. He also noted that co-sponsorship creates no financial obligations but does create opportunities for THD to share in meeting profits in recognition of our contributions. Dr. Merzari noted that we may wish to move ATH'18 to the 2018 Winter Meeting in order to reduce conflicts with the ICAPP meeting, which is expected to occur just before the 2018 Annual Meeting. In discussion, EC members discussed the relative merits of the co-sponsorship proposal. Dr. Cheung raised concerns that THD needs to prioritize its effort and should focus instead on strengthening NURETH as its flagship meeting. Dr. Muftuoglu agreed that NURETH should remain THD’s primary focus, but also noted that THD members are likely to continue supporting the ICAPP meetings whether we take advantage of this co-sponsorship opportunity or not.

Dr. Muftuoglu noted that the EC may want consider moving ATH’18 to the winter meeting regardless of participation in ICAPP18 because the Orlando location is likely to be a substantial draw in comparison to the Philadelphia location of the ANS Annual Meeting.

**MOTION by Prof. Schubring to move ATH’18 to the 2018 Winter Meeting and to authorize THD Chair to appoint someone to draft agreement for co-sponsorship of ICAPP18 to be approved by the EC.**

**SECONDED by Mr. Carasik**

**APPROVED with 7 votes recorded in favor and 5 opposed**

11. Membership Committee Report

Dr. Muftuoglu briefly reviewed the current membership status as reported in the November 2016 Newsletter.

a. Explanation of ANS Membership Accounting Methodology

   Tabled for future discussion

12. Division Website Report

Dr. Shaver reported that the website has been updated to reflect all 2016 appointments and awards.

**ACTION ITEM – Dr. Shaver will update Program Committee membership roster as approved at this meeting.**

13. Honors and Awards Committee Report

Prof. Sun reported that the Honors and Awards Committee reviewed and considered 2 nominations for the THD Technical Achievement Award (TAA). The committee selected Prof. Nam Dinh as the winner. As is customary, Prof. Dinh will deliver the TAA lecture immediately following the Monday afternoon THD technical session in the 2016 ANS
Winter Meeting. Prof. Sun noted that Prof. Dinh kindly donated his financial award to our operating fund.

Prof. Sun also reported that the Honors and Awards Committee reviewed and considered 4 papers identified by the ATH’16 organizing committee as candidates for the 2016 Best Paper Award. The 2016 Best Paper Award winner is “Air-Water and Steam-Water Onset of Flooding Data at Variable Pressure in a Large Diameter Tube” by N. Wynne, M. Garza, K. Vierow, D. Aumiller and M. Kyle.

14. Nominating Committee Report

Prof. Schubring reminded the EC that motions from the Nominating Committee, as a standing committee, do not require a second. Prof. Schubring, on behalf of the Nominating Committee, presented the following proposed election slate:

- Chair: Dr. Kurshad Muftuoglu
- Vice Chair: Dr. W. David Pointer
- Secretary: Dr. Chul-Hwa Song
- Treasurer: Prof. Wade Marcum

Executive Committee (5 at-Large) –
- Prof. John Luxat
- Prof. Annalisa Manera
- Prof. Hisashi Ninokata
- Dr. Piyush Sabharwall
- Prof. Yang Liu

Prof. Schubring, on behalf of the Nominating Committee, thanked the following EC members whose terms will be expiring for their years of service:
- Prof. Fan-Bill Cheung
- Dr. Paolo Ferroni
- Dr. Donna Guillen
- Prof. Jong Kim
- Prof. DuWayne Schubring

MOTION by Nominating Committee to approve election slate as presented.
APPROVED without objection

MOTION by Nominating Committee to appoint Prof. Fan-Bill Cheung to the Honors and Awards Committee
APPROVED without objection

MOTION by Nominating Committee to appoint Prof. John Luxat as Chair of the Conference Selection Committee
APPROVED without objection

15. New Business
   a. Actions from Professional Divisions Workshop

No actions to discuss
b. Actions from President’s Meeting with Division Chairs

Previously noted action item (Prof. S. Kim) to post to Grand Challenges ideas to ANS Collaborate under agenda item 8.

c. Interactions with Other ANS Entities – Committees, etc.

Tabled for future discussion

The Executive Committee meeting was adjourned at 6:21 pm
APPENDIX A

Executive Committee Meeting Sign-in Sheets
## Name

Only those listed below are voting members of your division

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Seungjin Kim, Chair</td>
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<td>Kurshed Muftouglu, Vice Chair</td>
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<td>W. David Pointer, Secretary</td>
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<td>XiaoDong Sun</td>
<td>Sun. <a href="mailto:2oo@Osu.edu">2oo@Osu.edu</a></td>
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<tr>
<td>John Luxat</td>
<td><a href="mailto:luxatj@mcgill.ca">luxatj@mcgill.ca</a></td>
</tr>
<tr>
<td>Dillian Shaw</td>
<td><a href="mailto:dshawr@anl.gov">dshawr@anl.gov</a></td>
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<td>In attendance</td>
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<td>Kurshad Muftouglu, Vice Chair</td>
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<td>Si, Young Lee</td>
<td><a href="mailto:si.lee@ornl.gov">si.lee@ornl.gov</a></td>
</tr>
<tr>
<td>Hisashi Ninokata</td>
<td><a href="mailto:hisashi.ninokata@polimi.it">hisashi.ninokata@polimi.it</a></td>
</tr>
<tr>
<td>Jun Liu</td>
<td><a href="mailto:liu@westinghouse.com">liu@westinghouse.com</a></td>
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Article B10.2 - A quorum for the transaction of business at all Division (or TG) meetings shall consist of fifteen (15) qualified voters or twenty (20) percent of the qualified voters.
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<tr>
<td>Yang Liu</td>
<td><a href="mailto:lv138@ue.edu">lv138@ue.edu</a></td>
</tr>
<tr>
<td>Sandra M. Sloan (Board Liaison)</td>
<td><a href="mailto:smsloan@bwxt.com">smsloan@bwxt.com</a></td>
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Article B10.2 - A quorum for the transaction of business at all Division (or TG) meetings shall consist of fifteen (15) qualified voters or twenty (20) percent of the qualified voters.
APPENDIX B

2017 Student Conference Flyer
Call For Summaries
Topics in Nuclear Science and Technology

Officials:
Conference Co-Chair
Miriam Rathbun

Conference Co-Chair
Brendan Stack

Technical Program Chair
Christopher D’Angelo

Format
All summaries must be 1-4 pages and be written in the ANS format found here: ans.org/pubs/transactions.

Submitting Your Summary
Summaries may either be submitted for poster or podium presentations. Submitting a summary for one of these presentations does not also include you into the innovation competition. Summaries must be submitted electronically and instructions can be found on the conference website.

Technical Tracks
• Accelerator Applications
• Advanced Reactors
• Aerospace
• Biology & Medicine
• Decommissioning & Environmental Sciences
• Detection and Measurement*
• Fuel Cycle & Waste Management*
• Fusion Energy & Plasmas
• Human Factors, Instr. & Control*
• Isotopes & Radiation
• Materials Science & Technology
• Mathematics & Computation*
• Nuclear Criticality Safety*
• Nuclear Installations Safety*
• Nuclear Nonproliferation*
• Operations & Power
• Radiation Protection & Shielding*
• Reactor Physics
• Robotics & Remote Systems
• Thermal Hydraulics*

* Division Sponsored Cash Award

The best papers selected will be invited for submission to the Nuclear Engineering Design journal special section.

Contact Us
If you have any questions please send them to technical.ansstudent2017@gmail.com or search for answers on our website: anstudentconference2017.com.
Call For Innovation
Businesses spawned by Nuclear Innovation

Officials:

Conference Co-Chair
Miriam Rathbun

Conference Co-Chair
Brendan Stack

Technical Program Chair
Christopher D’Angelo

Description
Students may submit an idea for a business that displays innovation and entrepreneurial skills in the field of nuclear science. All innovators will prepare and give a 5-minute pitch focused on their business plan to a panel of judges and will then answer questions regarding the presentation as well as the technical aspects of the idea. The judges will select one winner who will be awarded a cash prize of $500 that may be used to develop their business further.

Format
All summaries must be 1-2 pages in length and must include the following: your business plan, the market opportunity, and a technical description.

Submitting Your Summary
Summaries must be submitted online. Specifications for the summary file can also be found on the conference website.

Contact Us
If you have any questions please send them to technical.ansstudent2017@gmail.com or search for answers on our website: ansstudentconference2017.com.