

**AIAA Thermophysics Technical Committee**  
**40<sup>th</sup> AIAA Thermophysics Conference**  
**Technical Committee Meeting Minutes**  
**Tuesday 25 June 2008**  
**Double Tree Hotel Seattle Airport, Seattle, Washington**

Ed Marotta, AIAA Thermophysics Technical Committee Chair, called meeting to order at 7:15 p.m.

**Special Presentation:**

Dr. James A. Horkvich gave a presentation titled *Directed Energy Systems: A Program Committee Proposal*. The presentation outlined the focus of the Directed Energy Program Committee and its current state and participation. He also requested support from one or more thermophysics technical committee members.

**Introductions:**

Betty Guille stopped by to introduce herself and to give out travel wallets. Technical committee members who want an AIAA shirt are encouraged to stop by the registration desk to get one.

All technical committee (TC) members introduced themselves and their areas of technical interest.

**Approval of Minutes:**

Motion to approve the Minutes from the 46<sup>th</sup> AIAA Aerospace Sciences Meeting (ASM) in Reno in January 2008 was put forth by Walter Yuen and seconded by Meng-Sing Liou. The minutes were approved unanimously by the committee.

**Subcommittee Reports:**

Awards Subcommittee (David Kuntz)

- Most the subcommittee's work is done during the ASM in January.
- Last time, there was a controversy about selection criteria whether a nominee could win a Thermophysics Award for similar work already recognized by another AIAA award. According to AIAA, a nominee cannot win second award with similar work.
- Nominee from ASM needs to be nominated again with another citation so that he/she is eligible for the Thermophysics Award.
- Nomination deadline is October 15.
-

#### Nominations Subcommittee (Elliott Short)

- This subcommittee's charter is to make sure there are enough nominations for Awards subcommittee.
- The subcommittee met on Sunday.
- The nominations are based upon career achievement or specific body of work.

#### Best Paper Subcommittee (Gail Klein)

- No meeting was held.
- The Best Paper Awards were presented during Thermophysics Award Lecture by Ed Marotta.

#### Education Subcommittee (Howard Kanner and Tung Lam)

- No meeting was held.
- The donation tray for the Best Student Paper Award Fund was circulated with \$263 being collected.

#### Publicity Subcommittee (Bruce Babbit)

- Subcommittee held a virtual meeting.
- There is no input for Year in Review so far according to John Dec.

#### Publications Subcommittee (Eswar Josyula and Al Crosbie)

- There is a need to increase the submission rate to Journal of Thermophysics and Heat Transfer (JTHT) as well as conference papers. One suggestion is to email conference authors to encourage them to submit to JTHT. The TC was polled to see if it is feasible to include in the session chairs' report an extra check mark indicating that the paper has a recommendation for submission to JTHT. Mark Scott suggested that in some sense this is already being done with best paper recommendation in session chair report.
- Al Crosbie handed out sheet to new TC members with the history of JTHT. JTHT is an outgrowth of Thermophysics TC. He encouraged the TC support for JTHT by having individual subscriptions. Individual subscriptions to JTHT is going down. Submissions are up compared to last year. Conference submissions are down. For this year, papers by US authors are up slightly. The Write Track software is going away. It will be replaced by another package. AIAA is going to E-books.
- Greg Naterer suggested the need for special issues to increase circulation.

#### International Activities Subcommittee (Marcia Mantelli)

- Subcommittee met today.
- For this conference, 19 different countries were represented with 57 papers. India had 10 papers. Japan had 7 papers. Italy had 6 papers. Ireland had 5 papers.
- Most no shows appear to be international. There are three hypothesis for this:
  - The author just wanted recognition on his/her resume.
  - The cost to attend a conference is still too high.
  - It is very difficult to get visa still.

#### Year in Review (John Dec)

- There is no input so far.
- To better represent the TC input from academia is needed since the previous Year in Review was heavily based upon topics from industry.

#### Conferences Subcommittee (Greg Naterer)

- Subcommittee met today.
- ASM 2009-2011 will be at the Orlando Marriott World Center. For 2009 and 2010, it will be on the first week of January. For 2011, it will be on the second week of January. From 2012-2015, ASM will be held at the Gaylord Hotels: Nashville (Gaylord Opryland) 2012, Dallas (Gaylord Texan) 2013, Washington D.C. (Gaylord National) 2014, and Orlando (Gaylord Palms) 2015.
- Summer conferences: In 2009, it will be in San Antonio at the Grand Hyatt Riverwalk where rooms are \$189 per night. In 2010 it will be in Chicago at the Hyatt Regency McCormick Place where rooms are \$199 per night. In 2011, it will be in Hawaii at the Sheraton Waikiki with rooms at \$221 per night. In 2012, it will be in New Orleans with rooms for \$195 per night. In 2013, it will be in San Diego with rooms at \$222 per night.
- 40<sup>th</sup> AIAA Thermophysics Conference in Seattle in June 2008 (Feng Lai):
  - 118 abstracts with 6-7 late submissions and 6-7 rejections.
  - 15-16 no shows or withdrawals as of Tuesday afternoon. About half of the no shows were international. Surprisingly, there were a number of US authors. Need to control no shows. Need effective way to control the no shows.
- 46<sup>th</sup> Aerospace Sciences Meeting in Orlando in January 2009 (Abe Hashemi):
  - 101 abstracts in and 7-8 late ones for a total 110 or so.
  - Passed around sheet for session chair and abstract review volunteers.
  - Special session on CEV is planned.
  - 38 rooms for conference. Monday morning and Thursday afternoon sessions will have 8 papers. Rest of sessions will have 6 papers.
- 41<sup>st</sup> AIAA Thermophysics Conference in San Antonio in June 2009 (Gregg Beitel):
  - Call for papers is out.
  - Planning meeting was postponed.
  - Extended abstracts are required.
  - Planning to have special session(s) commemorating the 40<sup>th</sup> anniversary of lunar landing.
  - No info on special events yet
- 47<sup>th</sup> Aerospace Sciences Meeting in Orlando in January 2010 (Subrata Roy):
  - No report
- 42<sup>nd</sup> AIAA Thermophysics Conference in Chicago in June 2010 (Patrick Yee):
  - No report

#### **Liaison reports:**

- Fluid Dynamics:

- Need new liaison
- No meeting
- Plasmadynamics (Subrata Roy): Thermophysics has not provided sufficient submissions for the joint sessions.
- Ground Test: no meeting.

### **New Business:**

New TC members gave detailed introductions of themselves.

1. Arthur Mabbett (Naval Surface Warfare Center)
2. Alina Alexeenko (Purdue University)
3. Ahmad Sleiti (University of Central Florida)
4. Meng-Sing Liou (NASA Glenn Research Center)
5. Eric Silk (NASA Goddard Space flight Center)
6. Garrett Martin (The Aerospace Corp.)
7. John Dec (NASA Langley Research Center)
8. Anton VanderWyst (Raytheon Missile Systems)
9. Yuwen Zhang (University of Missouri, Columbia)
10. Mauro Prina (Jet Propulsion Laboratory)
11. Grant Palmer (Eloret Corporation)
12. Nathan Dougherty (ERC Inc.)
13. Gopal Tejwani (Jacobs Sverdrup)
14. Lindsay Kuhn (Boeing Satellite Systems)

Need to select a Chair-elect for the Thermophysics TC. Candidates nominated include Abe Hashemi, Greg Naterer, and Ingrid Wysong. Greg Naterer and Ingrid Wysong later declined.

### **Miscellaneous:**

AIAA Aerospace Sciences Group Deputy Directors stopped by to introduce themselves at 8:00. TAC is going through reorganization. Lost one technical committee but gained two. ASM is moving to Orlando for 2009-2011. ASM 2009 will grow significantly and include six keynote speakers and more sessions. Sessions will be shorter. Industry panels will be held in parallel with sessions. AIAA is looking to increase attendance. A search for the New Horizons Forum chair in 2010 is in process. New conference software will be coming online.

Basil Hassan received sustained service award during awards luncheon.

Thermophysics Award Winner was Prof. Modest of Penn St.

Young Professionals: Howard Kanner encouraged new hires to attend conferences and for TC members to visit schools to boost interest in science and engineering.

Meeting adjourned at 9:45 p.m.

Respectfully Submitted

Patrick Yee  
Thermophysics TC