

**Meeting Minutes HTD K-15 Committee**  
**Transport Phenomena in Manufacturing and Materials Processing**  
**Tuesday, November 7, 2006, 4:30pm-6:30pm**  
**Chicago Hilton, Chicago, IL**

**Attending:** Miling A. Jog, Gustavo Gutierrez, Junling (Joyce) Hu, Ronghui Ma, Frank Pfefferkorn, Jamil A. Khan, Majid Charmchi, Theodore L. Bergman, Xianfan Xu, Richard N. Smith, Guo-Xiang Wang, Yuwen Zhang, Yogendra Joshi, Ben Li, Wilson K. S. Chiu.

Email addresses are provided in Attachment.

**1. Chang Oh – Report from the Executive Committee**

- Chang Oh will be TPR for IMECE07 and SHTC08.
- IMECE06: HTD received 466 abstracts, 262 papers. 75 tech sessions, 6 poster sessions.
- HTD Accounts: Division account has \$105K, Rohsenow Endowment account has \$10K, \$115K total. Summer heat transfer conferences have been very successful.
- Future conferences:
  - 2007 SHTC in Vancouver co-located with JSME & Interpack. TPR: Ken Ball.
  - 2007 IMECE in Seattle. TPR: Chang Oh.
  - 2008 SHTC in Boston. TPR: Chang Oh.
- Per HTD by-laws, person can not serve on more than one technical committee (K6-22). Exceptions are K1 to K5, and K21.
- IMECE07 Changes:
  - ASME Board of Governors have set up a task force to revise IMECE into multidisciplinary sessions and 3 venues, and changed *division* format to *symposia* format. Received abstracts will be allocated to symposia topics.
  - IMECE duration is decreased to 3.5 days (Mon – Wed AM).
  - ASME proposed 13 symposia topics. Technical committees need to come up with suggested session topics and session chairs and co-chairs.
  - K-15 related symposia topics: Fluid and HT thermal systems, Nanotechnology, Energy Technology, Design and Manufacturing, Energy, Engineering Education, Electronics and Photonics.
  - Suggest submitting K-15 session topics in response to related symposia topics.

**2. Ken Ball – Report from SHTC07 TPR**

- July 8-12, 2007, Vancouver, Westin Bayshore Hotel.
- SHTC07 will be co-located with InterPACK & JSME.
- Hotel \$169, registration \$495 (lunch + breakfast for 5 days), need passport.
- Rod Douglas is General Chair.
- Website [www.heattransferconference.org](http://www.heattransferconference.org) is open to submit abstracts, Dec. 1, 2006 deadline, 69 tech sessions, 3 tutorial sessions proposed. Tutorial sessions will be all day Sunday, 1.5 hr to full day duration.
- K-15 KCR: Frank Pfefferkorn. Six K-15 sessions proposed.

**3. Report from 2006 IMECE**

- KCR: T.-C. Jen.
- Gutierrez: Chaired 2 general sessions – 9/10 papers presented.
- Y. Zhang: Melting & Solidification – 2 sessions, 5/7 papers presented.
- X. Xu: Laser Processing – 2 no shows.

**4. New Chair and Vice Chair of the committee**

- 3 year term for Chair and Vice Chair.

- New Chair: Ben Li.
- Committee nominates Wilson Chiu for Vice Chair.

#### 5. New Secretary of the committee

- Committee recommends nomination not necessary.

#### 6. Sessions for the SHTC07 in Vancouver

- KCR: Frank Pfefferkorn
- 6 sessions proposed:
  1. *Transport Phenomena in Materials Processing and Manufacturing*, Chair: Frank Pfefferkorn, Co-Chair: Ronghui Ma.
  2. *Transport Phenomena in Micro and Nano Scale Materials Processing and Manufacturing*, Chair: Xianfan Xu, Co-Chair: Hemant Mungekar.
  3. *Heat Transfer in Electronics Packaging and/or Photonics Manufacturing*, Chair: Yongho Sungtaek Ju , Co-Chair: Costas P. Grigoropoulos.
  4. *Transport Phenomena in Ultrashort Pulse Laser Material Interaction and Processing*, Chair: Yuwen Zhang, Co-Chair: J.K. Chen.
  5. *Energy Related Manufacturing*, Chair: Jon Longtin, Co-chair: Ted Bergman.
  6. *Transport Phenomena in Fuel Cell Processes and Manufacturing*, Chair: Wilson Chiu, Co-Chair: Jamil Khan.
- Discussion on session title overlap. KCR can expand/re-title sessions.
- Tutorial/Panel suggestions?

#### 7. Topics for IMECE07

- IMECE07 in Seattle, WA. Sheraton Seattle Hotel, Nov 11-16.
- Proposed KCR: Yuwen Zhang.
- Dick Smith: In response to attendees, Congress has being restructured. Major changes in technical organization will center around a new multidisciplinary symposia structure. ASME proposed 13 multidisciplinary symposia topics to which the division will provide subtopics, session titles, etc. that operate under the 13 symposia topics.
- Proposed Subtopics:
  1. *Transport Phenomena in Materials Processing and Manufacturing* (Wang)
  2. *Thermal Processing of Nanostructured Materials* (Bergman, Xu)
  3. *Laser Applications in Manufacturing and Materials Processing* (Li, Hu)
  4. *Ultrafast Laser Processing* (Tsai)
  5. *Transport Phenomena in Biomaterials Processing* (Ma)
- Ted Bergman: Sees SHTC as a fundamental conference and IMECE is an application conference.

#### 8. Mission statement

- Dick Smith: Long Range Planning committee (Chair: Dick Smith) is looking at re-structuring the HTD to be more responsive to changes in technology, needs, etc. and will identify areas that K committees will have significant impact. The Long Range Planning committee needs K-15 input ASAP. The LRPC will use all K committee input in restructuring.

#### 9. K-15 Web Page

- HTD Executive Committee talked is planning to streamline K committee web pages using a standard template. Web pages will reside on an ASME server.
- Junling (Joyce) Hu volunteered to head effort. She will contact Executive Committee for web page format.

#### 10. Discussion on HTD reorganization plan

- The Long Range Planning committee is in the process of looking at K structure to streamline organization. The committee will send proposed changes to EC to discuss next summer. All K committees need to define “*What is it that we do here?*”

*Submitted by Wilson Chiu.*

## ATTACHMENT

### HTD K-15 Committee Meeting

November 7, 2006

#### Attendance

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