

Minutes

K-15 Committee on Transport Phenomena in Manufacturing and Materials Processing

2009 International Mechanical Engineering Congress and Exposition

Walt Disney Dolphin Hotel, Lake Buena Vista, FL

Tuesday, November 17, 2009

10:30-11:30am

Attending: Ben Li, Wilson Chiu, Yuwen Zhang, Stephen Akwaboa*, Jianhu Nie*, Guo-Xiang Wang, Peiwen Li*, Miling Jog, Majid Charmchi, Patrick Mensah, Lou Gritzso (Executive Committee representative).

* New Member. Email addresses are provided in Attachment.

1. Report from the Executive Committee – Lou Gritzso

- At IMECE09, the Heat Transfer Division sponsored 230 papers, 40 sessions (includes panel & poster sessions), in addition to 177 papers in Track 10, and 52 papers in Track 3.
- 10th AIAA/ASME Joint Thermophysics and Heat Transfer Conference
 - Organizer: Tim Fisher
 - June 28 to July 1, 2010, Chicago, IL
- 14th International Heat Transfer Conference (IHTC)
 - Organizer: Yogesh Jaluria
 - August 7-13, 2010, Omni Shoreham Hotel, Washington, DC.
 - Abstract submission deadline was extended to January 15, 2010.
- The Heat Transfer Division will not participate in the 2010 IMECE.
- 8th ASME-JSME Thermal Engineering Joint Conference (AJTEC2011)
 - Organizer: James Klausner
 - March 13-17, 2011, Waikiki Beach Marriott Resort & Spa, Honolulu, HI.
 - Abstracts due May 31, 2010.
- 2011 IMECE will be held in Denver, CO.
- Starting next year, IMECE will be re-arranged to be more theme based. 2010 IMECE will focus on energy. (HTD will not participate in 2010 IMECE). ASME will announce 2011 IMECE theme by email around February 2010.
- HTD suggests fundamental papers to be directed to the Summer Heat Transfer Conference; application papers to be directed to the IMECE.
- HTD Executive Committee will have a vacancy starting July 2010. Government lab/industry background is preferred. Past committee chair experience is preferred. Send nominations to Chang Oh.
- Seeking nominations to HTD Awards & Honors committee. Send nominations to any Executive Committee member.
- ASME Journal of Thermal Science and Engineering Applications (Editor: Mike Jensen) is seeking manuscripts. K-15 may have direct relevance due to the committee's work on manufacturing and materials processing.
- Both the Journal of Heat Transfer and Journal of Thermal Science and Engineering Applications are doing well. HTD received \$30K from JHT last year.

2. Report from 2009 IMECE (KCR: Wilson Chiu)

1. *Transport Phenomena in Manufacturing and Materials Processing*, Calvin Li and Ronghui Ma, 4 papers.
2. *Laser and Multiphase in Thermal Processing and Applications*, Yuwen Zhang and J. K. Chen, 5 papers.
3. *Celebratory Session and Reception in Honor of Professor Yogesh Jaluria's 60th Birthday* (announcement attached).

3. Sessions for the 10th AIAA/ASME Joint Thermophysics and Heat Transfer Conference (June 28 to July 1, 2010, Chicago, IL)

K-15 Representative: Wilson Chiu

Topics proposed:

1. *Transport Phenomena in Manufacturing and Materials Processing* (Ben Li, Calvin Li).
2. *Phase Change and Microstructural Evolution in Thermal Processing* (Junling Hu, Patricio Mendez).
3. *Thermal Processing in Renewable Energy Systems* (Jamil Khan, Ben Li).

4. Subtopics for 8th ASME-JSME Thermal Engineering Joint Conference (March 13-17, 2011, Honolulu, HI)

K-15 Representative: Wilson Chiu

Proposed Subtopics:

1. *Transport Phenomena in Manufacturing and Materials Processing* (Milind Jog, Guo-Xiang Wang).
2. *Heat and Mass Transfer in Nanomanufacturing* (Ben Li, Wei Li).
3. *Laser Thermal Processing and Applications* (Hai-Lung Tsai, Sy-Bor Wen).
4. *Thermal Processing in Renewable Energy Systems* (Peiwen Li, Jianhu Nie, Patrick Mensah).

5. Elect new Vice Chair

- Yuwen Zhang was elected as Vice Chair (2009-2012).

6. New Chair

- Wilson K. S. Chiu is new K-15 committee chair (2009-2012).

7. New Business

- The committee discussed reducing the committee Chair and Vice Chair terms from 3 years to 2 years. The committee would like to increase involvement of new folks and ideas into the committee. Past officers feel that the 6 year term may be too long of a commitment. The committee motioned to open discussion with all committee members via email.
- The committee discussed reinstating the committee Secretary position to help out as KCR/Topic Chair for conferences, web site administration, and writing/disseminating minutes.
- In 1999, a proposal to shorten K-15 officer terms was not approved by the HTD Executive Committee since the terms are written into the ASME By-laws and are

uniform for all K-15 committees (see minutes of the 1999 IMECE K-15 committee meeting). Excerpt from the ASME Heat Transfer Division By-laws:

“Unless an appointment is made for a different length of time, all technical and special committee chairs shall serve a three year term, except for the Directions and Issues In Heat Transfer Committee, the Committee on Gas Turbine Heat Transfer (in conjunction with the Gas Turbine Institute) and the Committee on Heat and Mass Transfer in Biotechnology (joint with the Bio-Engineering Division) whose Chairs shall serve for two years. Terms of all officers, committee members, and of the retiring member of the Executive Committee shall expire on the last day of the month before the Division’s summer conference (e.g., the Summer Heat Transfer Conference, AIAA/ASME Thermophysics and Heat Transfer Conference, etc) is scheduled on July 1 if no summer meeting is scheduled.”

Submitted by Wilson Chiu.

ATTACHMENT

HTD K-15 Committee Meeting

November 17, 2009

Attendees

Name	Email Address
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Celebratory Session in Honor of Professor Yogesh Jaluria's 60th Birthday

Tuesday, November 17, 2009

**2009 ASME International Mechanical Engineering Congress and Exposition
Walt Disney World Swan & Dolphin Hotel, Lake Buena Vista, FL**

**Technical Session: 4:30 PM to 6:00 PM, Room Europe 5/Third Floor
Reception: 6:00 PM to 7:30 PM, Room Europe 10/Third Floor**



This celebratory session will honor Professor Yogesh Jaluria on his 60th birthday. Professor Jaluria has been extremely active and has made substantial contributions in the field of heat transfer, while providing significant leadership through his participation in executive and organizational committees for ASME and various conferences, and current editorship of the ASME Journal of Heat Transfer. During the celebratory session, leading workers in heat transfer will speak about the latest discoveries and Professor Jaluria's contributions in the field. A reception will immediately follow.

Confirmed Speakers

Richard Goldstein, University of Minnesota
Jay Gore, Purdue University
Lou Gritz, FM Global
William Grosshandler, NIST
Yogendra Joshi, Georgia Institute of Technology
Deborah Kaminski, Rensselaer Polytechnic Institute
Oronzio Manca, Seconda Universita' degli Studi di Napoli
Jayathi Murthy, Purdue University

Prepared Remarks

Roop Mahajan, Virginia Polytechnic Institute and State University
Elias Papanicolaou, DEMOKRITOS National Center for Scientific Research
Vish Prasad, University of North Texas

For additional information:

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*Sponsored by: ASME Heat Transfer Division's K-15 Technical Committee on
Transport Phenomena in Manufacturing and Materials Processing*