

Minutes of the K-15 Committee Meeting

Transport Phenomena in Manufacturing and Materials Processing

K-15 Committee Meeting, 2000 NHTC, Pittsburgh, Pennsylvania

Monday, 9:40am-12:00pm, King Plaza

Adrienne Lavine (Chair), M. Khairul Alam (Vice Chair),

REPORT

1. Report from HTD Executive Committee: Yogesh Jaluria
 - There is now an Opening in the Exec. Comm. since Ralph Nelson is leaving. Nominations are invited.
 - \$75K is needed to Endow HT Memorial Award (3 categories, \$25K each). We can complete funding to 50 K, but can't make it to 75K. Therefore only 2 awards will be given until funding is completed. Award amount will go up to 1K (from \$500).
 - Basic Engineering group is interested in improving IMECE. Members are encouraged to complete the survey that will be sent out for this purpose.
 - Bill Begell is working on international directory of heat transfer specialists. Should this be endorsed by ASME? Exec. Comm. welcomes input on this issue.
 - There will be a session organizer workshop at Orlando (IMECE), Tuesday afternoon. New session organizers are encouraged to attend.
 - NHTC Conference is going well with 274 papers submitted, web submission process has been effective.
 - There are 300 papers submitted to IMECE 2000.
 - The following are the program chairs for the 2001 conferences:
 - 2001 NHTC, Ted Bergman (papers will be on CD)
 - 2001 IMECE, Yogesh Jaluria (Papers will not be on CD)
 - Next NHTC co-located with AIAA in June in Anaheim. ASME is working on more co-locations in the future.
2. Report from the Chair (Adrienne Lavine)
 - KCRs selected for 2001 NHTC (Steve Lee), 2001 IMECE (Milind Jog)
 - There was a discussion about the overlap between committee meeting and presentation sessions. This problem should be avoided by cooperative interaction of Program Chair and KCR during the scheduling process (KCR's please note).
3. Report on current NHTC sessions (by Yogendra Joshi)
 - Transport Phenomena in Materials Processing and Manufacturing (J. Khan) (10 abstracts – 5 papers)
 - Transport Phenomena in Materials Processing at the Micro- and Nano-Scales (Alam/Longtin) (9 abstracts – 5 papers – 1 no-show)
 - Heat and Mass Transfer in the Manufacture and Assembly of Microelectronics (Mahajan/Lee) - canceled.
 - Advances in Sensing and Control of Thermal Processing in Manufacturing (Pitchumani/Mahajan) (5 abstracts – 4 papers – 1 no-show)
 - Melting and Solidification Heat and Mass Transfer (Smith) (14 abstracts – 8 papers – 2 no-shows)
 - Panel: Microstructures and Transport Phenomena in Metal Processing (Mahajan/Smith) (4 panelists)
 - There was discussion about the "oral presentation" notation on papers which were not included in the CD. (Adrienne found out later at the K-5 meeting that the oral presentations were reviewed papers, but the authors didn't get the final manuscript in by the deadline)
4. Report on upcoming 2000 IMECE sessions (Majid Charmchi)
 - Transport Phenomena in Materials Processing and Manufacturing (Charmchi/Gibson/Xu) (17 papers – 3 sessions)
 - Computational Developments in Manufacturing and Materials Processing (Khan/Andrews) (5 papers)
 - Transport Phenomena in Net Shape Manufacturing (Lee) Received 2 papers – combined with generic session.
 - Heat Transfer in Composite Materials Processing (Pitchumani) (7 or 8 papers – 2 in generic session; 10 abstracts)

- received, 2 withdrawn, 1 rejected)
 - Transport Phenomena in Polymer Processing (Zumbrunnen/Karwe) canceled.
 - Transport Phenomena in Spray and Coating Processing (Jog/Bergman) (6 papers)
 - Transport-Induced Phase Transformations in Materials Processing (Krane/Xu) canceled.
 - Artificial Neural Networks for Thermal Systems and Materials Processing and Manufacturing (Mahajan/Yang) (10 papers – 2 sessions)
 - There was a discussion about ASME wanting to release program before getting input from session chairs– this produced lots of errors. This should be discussed with ASME.
5. Planning for 2001 NHTC (KCR – Steve Lee)
- Ted Bergman is Program Chair from ASME
 - Transport Phenomena in Materials Processing and Manufacturing (Jen/Khan)
 - Mesoscopic Heat Transfer and Control of Thermal Processing (??)
 - Laser and Plasma Processing (perhaps joint with K-20) (Xu and Chiu, and Ting-Ruei Shiu)
 - Transport Phenomena in Non-Traditional Materials Processing and Manufacturing (Chan)
 - Transport Phenomena in Processing for Nano- Systems and Materials. (Later, it was arranged by Mike Chen that Katsuo Kurabayashi would organize. He intends to become a K-15 member.)
6. Planning for 2001 IMECE, New York (Jog KCR)
- Transport Phenomena in Materials Processing and Manufacturing (Chandra/Alam)
 - Joint symposium – Nontraditional Manufacturing Research and Applications (MED, HTD?, Mat.?) – need co-chair from us (Smith)
 - Transport Phenomena in Processing for Nano- Systems and Materials – panel or invited papers (organized by Prasad and Wang)
 - Transport Phenomena in Polymer and Composite Processing (Pitchumani and coorganizer to be selected by Pitchumani)
 - Transport Phenomena in Novel Spray and Coating Processing (Chiu)
7. New business
- K-15 will send new representative to MED (Dick Smith)
 - Discussion on International directory by Bill Begell -- fine with us as long as there is no charge. However, Steve Lee pointed out that a e-net strategy being put together by ASME would include listings of practitioners. Therefore there may be conflict in endorsing Bill Begell's directory. Steve also pointed out that the directory has implications, and can be misused.

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