

**Agenda – IMECE 2002**  
**Tuesday, November 19<sup>th</sup>, 2002, 4:00 - 6:00 pm**

*Attendance, regrets received from: Jones, Joshi, Kulacki, Sailor.*

**Introductions** – *New Officers, (for a three-year period beginning Jan 2002)*  
*Chair: Pamela Norris, University of Virginia*  
*Vice-Chair: Ann Anderson, Union College*  
*Secretary: Dave Dewitt, Emeritus Professor, Purdue University*  
– *Members, Visitors*

**Reading, Discussion and Approval of the Minutes, IMECE2001 Meeting**

**Old Business - Past, Current and Planned Sessions**

*97-IMECE, Panel Session.* “Software Utilization and Relevance in the Undergraduate Curriculum;”  
Allen Duncan and Bob Boehm, Organizers; Short review summary of the panel presentations sought.  
(Item from Agenda for 98-, 99-IMECE)

*99-NHTC, Student Poster Session.* No abstracts received; Allen Duncan and Nihad Hussain; in future years, sessions will be entitled “Student Research and Design in Heat Transfer” and organized annually for the IMECE meetings.

*IMECE Paper Standup Sessions: “Innovations in Heat Transfer Education”*

New theme for 2000 involves attracting contributions from NSF career award winners and integration of research and teaching activities.

1997 Allen Duncan and Bob Boehm- Panel Session “*Software Utilization and Relevance in the Undergraduate Curriculum*”

1999 Allen Duncan and Marcus Bianchi - “*Thermal Sciences and Energy Systems Education*”

2000 Pam Norris and Peter Noymer – “*Innovations in Heat Transfer Research*”

2001 Richard Figliola and Pam Norris- Panel Session “*Innovations in Heat Transfer Research- Integrating the Thermal Fluid Sciences*”

2002 Session Title: Panel Session “*Innovations in Heat Transfer Education: Teaching Nano-Micro Heat Transfer*”

Tuesday, November 19, 2002, 11:15 AM-12:45 PM

Technical Session #: HT-12A

Session Title: Innovations in Heat Transfer Education: Teaching Nano-Micro Heat Transfer

Session Chair: Andrew Smith, U.S. Naval Academy

Co-Chair: Zhuomin Zhang, University of Florida

*IMECE Student Poster Sessions: “Student Research and Design in Heat transfer”*

2000 Terry Simon and Nihad Hussain

2001 Ed Anderson and Ali Khounsary

2002 Ann Anderson and Himanshu Joshi  
Wednesday, November 20, 2002, 2:00 PM-3:30 PM  
Technical Session #: HT-P3

### **Other Old Business**

*Sub-Committee Assignments.* Seeking to give the committee structure for the conduct of present activities, the following assignments were kindly accepted during the 99-IMECE meeting:

- Pam Norris, Stand-up Session (resource person)
- Terry Simon, Student Poster Session (resource person)
- H. Joshi, Industrial-Application Problems for the Classroom (chair)

### **New Business**

*IMECE Paper Standup Sessions:* “Innovations in Heat Transfer Education”

Ideas for topics for standup sessions???

Some of our earlier ideas include:

- Organizing a highlight session, “beyond traditional boundaries”
- What do we expect students to understand about heat transfer when they come into industry?
- Heat transfer is endangered; how to deal with change?
- Combining thermodynamics, fluid mechanics and heat transfer; shrinking thermal science credits
- Long-distance learning – what’s peculiar to teaching heat transfer?
- Heat transfer in electronics design; co-sponsorship with K-16
- Curriculum course and laboratory integration, integrating research and teaching; involving NSF award winners for the CCLI program to target paper contributions, as well as awardees’ student posters.
- How to get young faculty interested in education-related issues prior to, rather than after tenure?
- Serving as a resource to young faculty in their development as educators and promoting industrial training and work experiences.

Volunteers for organizing Stand-up sessions in 2003, and beyond????

Volunteers and topics:

2003 ??? and ????, Topic:

2004 ??? and ????, Topic:

2005 ??? and ????, Topic:

*IMECE Student Poster Sessions:*

Update from Ann Anderson regarding participation.

Ideas for improving student involvement???

Volunteers for organizing sessions in 2003, and beyond????

2003 ??? and ????

2004 ??? and ????

2005 ??? and ????

*Update on Industrial-Application Problems for the Classroom (chair- H. Joshi).*

Any new additions?

Action items?

*Update on Panel Summary of 2001 Panel Session “Innovations in Heat Transfer Research- Integrating the Thermal Fluid Sciences (Chair Richard Figliola and Co-Chair Pam Norris)*

*Fulfilling Organizational Requirements Expected of a HTD Permanent Committee.* As of 2002, the committee is organized and staffed in accordance with HTD’s expectations.

Discussion items:

- (1) membership roster
- (2) by-laws

*K-21 Website.*

Ann Anderson has volunteered to assist with development of the new site. She will be assisted by one of her students.

Ideas for material to be included?

*Other New Business*

*Next meeting.* At IMECE03. Agenda suggestions sought?

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***Mission Statement, Committee on Heat Transfer Education***

*The primary mission of the Heat Transfer Education Committee is*

- *To document issues related to education that are important to the Heat Transfer Community and*
- *To promote change that will strengthen the education interface with research and engineering practice.*

*In so doing,*

- *We keep abreast of the changing scene in education pedagogy and the changing environment of the Heat Transfer field,*
- *Organize and conduct symposia on educational issues, and*
- *Solicit free exchange on education among members of the Division.*

*Finally, we promote publication and other exchange of ideas in heat transfer education.*

From the 1997-1998 ASME Heat Transfer Division Report of the Committee

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Pamela M. Norris

Department of Mechanical and Aerospace Engineering, University of Virginia

e-mail: pamela@virginia.edu