Education Committee
ASME Heat Transfer Division

Meeting Minutes - 2000 IMECE

Thursday, November 7th, 2000, 1:00 - 3:00 pm

Attendance, *Members*: Ann Anderson, Tony Campo, Van Carey, Richard Culham, David DeWitt, Allen Richard Figliola, Ali Khounsary, Frank Kreith, James Mondt, Pam Norris, Terry Simon, N.V. Suryanarayana

Old Business

00-IMECE Standup Paper Session. "Innovations in Heat Transfer Research," Chairs: Pam Norris and P.D. Noymer (4 papers).

00-IMECE Heat Transfer Poster Session, Undergraduate Research and Design in Heat Transfer. Chairs: T.W. Simon and N.A. Hussain (4 posters).

01-IMECE Panel Session, Innovations in Heat Transfer Research, "Integrating the Thermal Fluid Sciences" Chair: Richard Figliola (4 panelists).

01-IMECE Heat Transfer Poster Session, Undergraduate Research and Design in Heat Transfer. Chairs: Ed Anderson and Ali Khounsary (2 posters).

Industrial Problems for the Classroom. No report.

Future Meeting Sessions

Standup Paper Sessions

02-IMECE	Allen Duncan and Andrew Smith
03-IMECE	Need volunteers

Student Poster Sessions

01-IMECE	Ed Anderson and Ali Khounsary
02-IMECE	Need volunteers

New Business

Permanent Status for the Committee. Following our committee action at the 99-NHTC meeting, the chair petitioned the K-5 Coordinating Committee for permanent status at their November 20th meeting. The petition was supported by K-5, and submitted to the HTD Executive Committee for action. Permanent status was granted at the 00-NHTC meeting. Petition is appended for inclusion in minutes.

Committee Organization. To give structure to our present activities, the chair asked Pam Norris and Terry Simon to serve as sub-committee chairs for the Stand-up and Student Poster Sessions, respectively. They are asked to serve as resource persons to the organizers of the next-year sessions. Himanshu Joshi agreed to serve as chair of the subcommittee on Industrial-Application Problems for the Classroom.

Presentation

Richard Figliola, Clemson, made a 30-minute presentation with considerable committee discussion on the topic of *The Thermal Sciences Curriculum – Then and Now*. As background, he polled 12 department chairs in the southeastern part of US. Key summary follows:

Credits. Dropped from 16 credit hours in 1990, to 13 hours in 2000.

Subjects covered by the polled schools:

Integrated TFS introductory course	20%
Fluid mechanics	95
Heat transfer	90
Thermo, 2 semester	65
Thermo, 1 semester	25
Design	50
Other (e.g. multisemester TFS courses)	50

Trends in Thermal Fluid Sciences

- Growing number of integrated courses
- Design synthesis courses
- Moving from required to elective courses
- TFS elective enrollment is down
- Less thermo, more specific emphasis
- Fewer pure projects

Future Thoughts and Directions

- Collaborative leaning/teaming and labs
- Project learning
- Visualization (software)
- Block/integrated courses

Attachments: (1) IMECE 2000 Program – Committee Organized Session
(2) Report and Petition to The K-5 Coordination Committee, HTD (Petition for permanent status)

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