



# ASME K-20 Committee Meeting Minutes

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## Minutes at 1997 IMECE, Dallas

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## ASME-IMECE 97

### *Dallas, Texas*

Minutes of the K-20 Computational Heat Transfer Committee Meeting

November 20, 8:00a.m 1997, submitted by Sumanta Acharya with

additions by Ben Blackwell

Present: Acharya, Amin, Anand, Andrews, Blackwell, Brueckner, Chandra,

Chopin, Clarksean, Douglass, Emery, Fiveland, Haji-Sheikh, Heinrich,

Jog, Khan, Pepper, Pletcher, Rahman, Vradis, McAssey, Minkowycz, Woodbury

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### **A. Introduction of Committee Members**

An Attendance List was circulated and attendees were asked to note any changes.

### **B. Approval of minutes of meeting at 1997 NHTC, Baltimore**

Motion to approve 1997 NHTC meeting minutes was made and seconded.

Motion carried unanimously.

## **C. Reports/Announcements**

Executive Committee Report (delivered by Ralph Nelson)

It is imperative that the KCR's take an active role in the organization of their conference. The KCR job typically involves attending an additional organizational meeting (Chicago for the 1998 IMECE).

The goals of the HTD for the coming year are 1) resolve NHTC conflicts (primarily with AIChE), 2) improve industrial participation, 3) inaugurate virtual conferences and 4) establish classic paper award.

Problems with the organization of the NHTC have been resolved for next 3 years; ASME will be in charge. The 1998 NHTC to be held in Albuquerque, NM.

It is important to increase industrial participation. It has improved in the last few years, and continued efforts are necessary.

Bud Peterson has details on virtual conferences/satellite programs.

Two Satellite heat transfer programs, both initiated from K-20, will be broadcast on March 25 (Commercial Codes: To Buy or Not To Buy) and April 29 (Industrial Applications for Radiation Numerical Modeling).

Classic paper award is going forward. Goal is to honor a paper, at least 15 years old, that has had a significant impact. Nominations have been made to the K-3, Honors and Awards. The selected paper will be presented by the author at the 1998 IMECE.

1998 IMECE includes proposals for 60 HTD sessions. Initial

allotment is likely to be of the order of 35. Additional sessions

can be obtained by relating the session topic to the conference theme: Global Technology for the Competitive Edge or by relating it to an area of interest to the industry. Cross-division sessions are encouraged and can bring additional sessions.

Theme for 1999 IMECE is Industry-Government-University Interactions.

Nominations for membership in the Executive Council and for the Heat Transfer Memorial Award requested.

## ***Other Announcements***

Therese Chopin reported on the discussions of the CGCFD (FED)/K-20 subcommittee on benchmarking. A panel discussion on the history and future of benchmarking is proposed for the 1998 IMECE. A joint benchmarking session plus panel will be held at 1999 IMECE. Ghia and Cochran are working together to put a history paper together.

Chopin will be the point of contact for benchmark-problem

submissions.

Volunteers were requested for the web page development. Randy Clarksean, Keith Woodbury and John Hochstein kindly agreed to help with this project.

#### **D. Review of Sessions at 1997 IMECE,**

TPR Woody Fiveland: KCR, PatBurns

1. 3-D Computational Heat Transfer (Emery/Amin): 4 papers on Thursday session. Problems reported include: confusing line of communication between session chair, KCR, and TPR, withdrawal of papers after abstract accepted, couple of papers identical to earlier submissions or publications
2. Parallel Algorithms (Douglass/Brueckner) 4 abstracts originally submitted, but only two papers were submitted and reviewed. One paper withdrawn leaving only one paper for the session.

#### **E. Planning for Future Sessions**

*1998 NHTC, TPR Baseem Armaly, KCR George Vradis*

1. Uncertainty Analysis in CHT (Woodbury/Emery): 6 papers in review
2. Visualization Methods (Hanson/Douglass): 1 paper received
3. Advances in Algorithms in CHT (Hanson/Douglass): Some confusion about this. Session finally ends up being co-organized by Vanka/Fiveland instead of Hanson/Douglass.
4. Advances in Finite Volume Methods (Hogan/Anand): No papers received
5. Panel Discussion to be organized by Darrell Pepper on High Performance Computing for Convective Heat Transfer

Report by Vradis (KCR):

186 abstracts, 135 papers received

2 sessions (?? 3 sessions listed above) plus panel session on HPC by Pepper

*1998 IMECE, TPR Ralph Nelson, KCR Therese Chopin*

1. What is the future of Verification/Validation of Computational Heat Transfer Software (Chopin)- panel: in works
2. Algorithm Developments in Computational Heat Transfer and Fluid Flow (Acharya/Douglass): call for papers mailed out
3. Applications of CHT Software (Douglass/Huang): in works
4. Finite Element Methods in Heat Transfer (Chopin/Heinrich): in works
5. Inverse Problems (Woodbury/Dulikravich (with K-12 Beck/Blackwell)): Combined with the next session on optimization

6. Multidisciplinary Inverse and Optimization in Heat Transfer

(Amon/Dulikravich) (moved from 98THT): combine with the session

above

***1999 NHTC, Albuquerque TPR, Mike Jensen KCR, Randy Clarksean***

***Time line: Submit list of sessions by January 1998***

Coordinate sessions with AIChE and complete session list by Feb. 1998

Call for papers issued on the web, and other places All abstracts to be brought by the TPR to 1998 IMECE and abstracts divided there.

1. Industrial Applications of Computational Heat Transfer

(Clarksean/Sanchez)

2. Error Estimators for Computational Heat Transfer Software (Cochran/Ladeinde)

3. Boundary Element Methods in Heat Transfer (Emery/Pepper)

4. Numerical Implementation of Radiation Heat Transfer (Fiveland/?)

5. Advances in CHT (Acharya/Douglass)

Suggestion made to include Contact Resistance in cfp for Industrial Applications session (see above).

1999 IMECE, Nashville, TN November 14-19 TPR, Larry Witte KCR,

Therese Chopin

1. Parallel Computing in Thermal-Fluid Phenomena (Douglass) with

Applied Mechanics Committee/Fluids Committee

2. Applications of CHT (Chopin/Clarksean)

3. Computational Methods in Materials Processing (Andrews/Jog) with K-15

4. Numerical Simulation of Turbulent Flow and Heat Transfer

(Pletcher/Haji-Sheikh)

5. Benchmarking CHT Codes (Chopin/Heinrich)

6. Panel on Industry/Government/University Interactions in CHT (Emery/Clarksean)

2000 NHTC TPR, ? KCR, George Vradis

2000 IMECE TPR, ? KCR, Umesh Chandra

**F. Other Business:**

Names are requested for the committee to nominate for Fellow status.

Discussion on best paper award

Discussion on a more suitable time for K-20 meeting. Evening time

acceptable to majority.

Effort to involve CFD vendors since this will draw their users.

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