



# ASME K-20 Committee Meeting Minutes

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## Minutes of the

### K-20 Committee Meeting on Computational Heat Transfer

### 2002 AIAA/ASME Joint Thermo-physics Meeting

St. Louis, MO

June 25, 2002

The meeting was called to order by Sumanta Acharya at 7:05 pm.

Attending:

Sumanta Acharya

Malcolm Andrews

Jamil Khan

Ben Blackwell

Darrell Pepper

Tom Shih

Laxmi Gewali

Pradip Majumdar

Robert Spall

Laila Guessous

Rod Douglas

Therese Rhodes

## Approval of Previous Minutes

The minutes of the K-20 committee meeting held at the 2001 IMECE in New York, NY were approved.

## Executive Committee Report

Yogesh Jaluria reported the following from the Heat Transfer Executive Committee:

The 2003 ASME NHT will be July 20-23 in Las Vegas. Conference hotel is the Rio (an all suites hotel) and room will be \$99 for a single or double. Registration fee will be \$375 - \$380 and will include the Authors' breakfast, 6 breaks, Transactions CD, and an Opening Reception. The HTD checked with an outside vendor - 3D. ASME matched 3D's cost. After 2003 HTD may not support future JSME/ASME meetings in March (like we have in Hawaii in 2003). Van Carey is in charge of the conference. All papers will be 3-6 pages extended abstracts with later deadlines. The short abstract is due in January, extended abstract due in March for review. Final extended abstract due approximately 2 months before the conference.

In 2004 we will have a joint conference with AIChE and the ASME Fluids Division. It will be in either Boston or Chicago.

Note that CA1 or CA2 forms must be completed and approved for ASME to be listed as a sponsor for any conference.

The 2002 IMECE will be in New Orleans November 17-23. All reviews will be done via the web, final paper submission on the web, too. Form 1337 will be gone, but the copyright form is still required, signed by each co-author. There are 400 papers scheduled for the IMECE.

There will be training for Session Organizers at the IMECE in New Orleans. Rod Douglass will conduct the training. Send names of those we want to attend to [rwd@lanl.gov](mailto:rwd@lanl.gov)

Future meetings include:

- August 18-23, France (The United States has 150 papers)
- 2006 Sydney, Australia
- 2010 USA, India or China

Please check your contact information on the HTD roster on the HTD web site and update as appropriate. You can check your information on the roster at <http://cronos.rutgers.edu/~jaluria/roster.html>. E-mail corrections to Rod Douglass at [rwd@lanl.gov](mailto:rwd@lanl.gov).

Ben Blackwell asks that the HT Journal use the addresses from the roster rather than the "old crib sheet" currently in use.

The K-2 (Long Term) and K-3 (Award) committees are looking for new members.

The Executive Committee Chair is Yogesh Jaluria; Vice Chair is Yildiz Bayazitoglu; Rod Douglass is Treasurer.

ASME has a limit of 6 papers per session

Yogesh commented that our K committee has the largest attendance at the meeting. Other K-committee meetings only have 3-4 people.

## Announcements

The 2003 National Heat Transfer Conference will be held in Las Vegas.

The ICHMT Symposium 2004 could be on a cruise ship off of Norway. It is anticipated that the trip will be under \$2000, possibly \$1100 all inclusive. An alternative location is Las Vegas. Organizers are looking for feedback. If anyone is interested, e-mail [cht04@mec.unsw.edu.au](mailto:cht04@mec.unsw.edu.au).

Laxmi Gewali, Professor of Computer Science at NUNLV and an IEEE Editor attended as a guest of Darrell Pepper. He is interested in methods for displaying NHT results. He is here to promote cross-pollination at computer science conferences. Many computer scientists solve partial differential equations.

The K-5 Planning committee meeting will be Wednesday, from 8:00 – 11:00 am.

## Review of Sessions in 2002 AIAA JTPHT (NHTC)

Note that new sessions were created from papers received since our session titles were not listed in the Call for Papers on the ASME website. ASME had about 150 preregistered attendees.

TPR: Pinar Menguc

KCR: N.K. Anand

Sessions:

Applications of Computational Heat Transfer (Pepper/Heinrich) – 8 papers. 1 author was unable to attend (family emergency). Approximately 30 attended the session.

Panel Session on Verification Problems for Computational Heat Transfer (Blackwell/Anand) – will be held Wednesday evening.

Computational Heat Transfer in Porous/Composite Media and Heat Exchanger Systems (Khan/Andrews) – 7 papers. 1 author didn't show to present (due to travel budget cuts). 20 –25 attended the session.

Advanced Numerical Algorithms / Turbulent Heat Transfer (Acharya/Murthy) – 6 papers. Scheduled for Wednesday morning.

Proposed Sessions:

Industrial Applications of Electronic Cooling (Murthy w/ K-16)

Stochastic Heat Transfer (Emery, Pepper) – try for 2004 NHTC

Verification Problems for Computational Heat Transfer (Blackwell, Anand) – try for 2004 NHTC

Computation of Heat Transfer for Biomedical Applications (Zhang w/ K-17) – try for 2004 NHTC

Computational Developments in Manufacturing and Material Processing (Khan, Andrews) – try for 2003 NHTC

Panel on Computational Techniques for Micro/Nano systems (Murthy) – did not pursue

## Review of Sessions in 2002 IMECE

TPR: Yildiz Bayazitoglu

KCR: Aki Runchal

Total of 9 sessions currently allocated to K-20.

Sessions:

High Performance Computing in Thermal Problems (Pepper, Farouk) – 6 abstracts, Session HTD-6C

Numerical Modeling of Turbulent Heat Transfer (Anand, Pletcher) – Combined with a K-12 session. 11 abstracts

Parameter Estimation in Thermal Systems (Emery, Blackwell w/ K-12) – 9 abstracts. Session HTD-15D. Currently have 9 papers scheduled for 1 session !!! Also, K-20 is not mentioned as the session sponsor

Industrial Applications of Computational Heat Transfer (Rhodes, Clarksean) – 17 abstracts. Sessions HTD-10D, 13B and 14C.

Computational Methods for Environmental Heat Transfer (Pepper, Runchal, w/ K-19 - who?) – 3 abstracts. Poster session scheduled for Wednesday, 11/20 from 2:00 – 5:00 pm.

Computational Heat Transfer in Reduced Gravity (Hochstein, Ben Li w/ K-12 & K-22) – 4 abstracts. Scheduled for afternoon Poster session on 11/20.

Parallel Computing for Heat Transfer Problems (Acharya, w/K-8) – All invited talks

Proposed Sessions (that did not make)

Computational Heat Transfer in Radioactive Waste Management (Culbreth, Heinrich)

Computational Issues in Industrial Combustion (Runchal, Jog)

Computational Heat Transfer in Smart Systems (Jones, Chen)

Panel on Computational Mechanics Issues in the ASCI Program (Blackwell) – Form didn't get completed, so couldn't get a time slot. Sumanta Acharya will try to get the session or move it to our meeting in Washington, DC.

## **Review of Sessions in 2003 NHTC, Las Vegas (with AIChE) – late April, information is being requested now**

TPR: Van Carey

KCR: Roy Hogan

Sessions:

Radiation Heat Transfer (Emery, Thynell w/ K-8)

Inverse Methods (Dulikravich, Blackwell)

Computational Techniques in Bio Heat Transfer (Runchal – w/ K-17)

Computational Techniques for Micro/Nano Systems (Murthy, Amin)

Computational Advances in Free and Forced Convection (Spall, Guessous)

Computational Heat Transfer for Reaction-Related Processes (Zheng, Khan w/ AIChE)

Computational Heat Transfer in Manufacturing and Material Processing (Majundar, Khan w/ K-15)

Tutorial on Numerical Heat Transfer (Runchal)

## **Review of Sessions in 2003 IMECE, Washington, DC**

TPR: Russ Skocypec

KCR: N.K. Anand

Sessions:

Meshless Heat Transfer Computations (Pepper, Runchal with K-12)

Validation of Computational Models (Dowding)

Benchmark and Verification (Heinrich, Rhodes)

Computational Interphase Dynamics & Phase Change (Amin, Heinrich)

Panel on Discontinuous Finite Elements in Heat Transfer (Li, Heinrich)

Computational Geometry, Meshing and Visualization (Douglass, Pepper, Acharya)

Industrial Applications of Computational Heat Transfer (Clarksean, Rhodes)

Computational Transport Issues in Nuclear Industrial Thermal Hydraulics (Clarksean, Pepper)

Computational Heat Transfer in Porous / composite Media & Heat Exchanger Systems (Andrews, Kahn)

Numerical Modeling of Turbulent Heat Transfer (Guessous, Acharya)

## **Review of Sessions in 2004 NHTC, (Boston or Chicago)**

TPR: ??

KCR: ??

Sessions:

Computational Heat Transfer for Hazardous Waste Management (Pepper)

Applications of Computational Heat Transfer (Spall, Guessous)

Mesh Generation and Mesh Quality (Douglass, w/ Fluids Division)

Tutorial on Grid Generation ( ???)

Stochastic Heat Transfer (Emery, Pepper)

Verification Problems for Computational Heat Transfer (Blackwell, Anand)

Computation of Heat Transfer for Biomedical Applications (Zhang w/ K-17)

### **Other Discussion**

None.

### **Meeting Adjournment**

The Meeting adjourned at 8:50 p.m.

Respectfully submitted,

*Therese Rhodes*

K-20 Vice-Chair

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