



# ASME K-20 Committee Meeting Minutes

---

## Minutes of ASME K-20 Computational Heat Transfer Committee

National Heat Transfer Conference

August 11, 1997

Omni Inner Harbor Hotel

Baltimore, Maryland

Members Present: Blackwell, Bryan, Chopin, Clarksean, Cochran, Crosbie, Douglass, Dulikravich, Emery, Fiveland, Hogan, Jog, Ladeinde, Pepper, Sanchez, Woodbury, Yang, Zhang, Abu-Hijleh, and Hanson

1. Call to order by Darrell Pepper 8:05AM
2. Approval of minutes from last meeting - moved by Therese Chopin, Second by Rod Douglas, motion carried by acclamation.
3. With this meeting, this committee becomes an official HTD committee, K-20. In honor of this occasion, Darrell Pepper provided buttons with K-20 on them; all members wore the proudly. Ben Blackwell will be the chairman for the next three years.
4. Review of sessions for this ASME meeting (1997 NHTC)
  - a. Multiblock, Multigrid, Moving Meshes, and Structured/Unstructured Grids in Computational Heat Transfer (Chopin/Douglas) - 4 papers
  - b. Boundary Element Methods in Heat Transfer (Pepper/Emery) - session did not make
  - c. Industrial Application and Validation of Computational Heat Transfer Codes (Clarksean/Amin/Sanchez) - 8 papers 7 authors
  - d. Inverse Design Problems in Heat Transfer and Fluid Flow (Woodbury/Dulikravich) - 23 papers including Keynote)  
Advances in Finite Volume Techniques (Anand/Hogan) - session did not make
5. Planning for Future Sessions
  - a. 97 IMECE in Dallas - TPR is Woody Fiveland, KCR is Pat Burns.
    - i. Thermal-Mechanical Effects in Manufacturing and Material Processing (Chandra (w/K-15)) - did not make
    - ii. Parallel Algorithms and Computational Architectures for Thermal-Fluid Phenomena (Douglass/Brueckner)- only one paper
    - iii. 3-D Computational Heat Transfer (Emery/Amin) 5 papers
    - iv. Benchmark problem (Chopin) - late development - subcommittee on Benchmarking wants to have a panel discussion rather than the slated poster session at 97 IMECE, but June Leach has indicated it is too late for this. Discussion.
    - v. Computational Methods for Multiphase Flow (Andrews/Runchal) - did not make
    - vi. Transient Computational Heat Transfer (Hogan/Anand) - session did not make
    - vii. Overall only 7 papers for K-20 sponsored sessions for the 97 IMECE
  - b. 98 TPHT in Albuquerque, TPR is Bassem Armaly, KCR is George Vradis
    - i. Uncertainty Analysis in Computational Heat Transfer (Woodbury/Emery (w/K-12)) - call for papers has gone out
    - ii. Visualization Methods (Hanson/Douglas) - call went out
    - iii. Advances in Algorithms in CHT (Hanson/Douglass) - will issue call as soon as he returns
    - iv. Advances in Finite Volume Methods (Hogan) - will issue call as soon as he returns
  - c. 98 IMECE in Anaheim, TPR is Ralph Nelson, KCR is Pat Burns/Therese Chopin
    - i. What is the future of Verification/Validation of Computational Heat Transfer Software (Chopin)- panel
    - ii. Algorithm Developments in Computational Heat Transfer and Fluid Flow (Archarya/Douglass)

- iii. Applications of CHT Software (Huang/Lazaridis/Douglass)
- iv. Finite Element Methods in Heat Transfer (Chopin/Heinrich)
- v. Inverse Problems (Woodbury/Dulikravich (with K-12 Beck/Blackwell))
- vi. Multidisciplinary Design Optimization in Heat Transfer (Amon/Dulikravich) - (moved from 98THT)
- d. 99 NHTC in Charleston (subsequently changed to Albuquerque) TPR is Mike Jensen, KCR is Randy Clarksean
  - i. Industrial Applications of Computational Heat Transfer (Sanchez/Clarksean)
  - ii. Error Estimators for Computational Heat Transfer Software (Cochran/Ladeinde)
  - iii. Boundary Element Methods in Heat Transfer (Emery/Pepper)
  - iv. Numerical Implementation of Radiation Heat Transfer (Cochran)
  - v. Numerical Implementation of Contact Resistance in CHT Software (Cochran)
  - vi. Numerical Methods for Porous Media (Pepper)
- e. Discussions
  - i. Woody Fiveland - For the 1997 IMECE 300 abstracts were received and of those 280 were invited for review. 192 papers were received for review. At least 30 of these are numerical in scope. Suggests that K-20 should be getting co-chairs for the sessions on numerical stuff by going to the K-5 or KHC (?) committee meeting and getting the list of sessions - if you see a numerical session then see about getting co-chair from K-20 on it
- 6. Executive Committee Report - issued by Woody Fiveland
  - a. Problems with final program for this meeting, due primarily to the lack of M&P 1337 forms by session chairs. Program chairs are reminded to meet ASME's deadlines.
  - b. The next Heat Transfer conference will be the ASME/AIChE 33rd National Heat Transfer Conference in Charleston (1999, subsequently changed to Albuquerque). ASME will staff the next three meetings (99,00,01)
  - c. Deadline for 98 TPHT extended to 8/16 - abstracts should be sent to Bassem Armaly ASAP
  - d. Virtual Conference Proposals - due by Sept 1 1997 to Executive
  - e. Committee (Bud Peterson) - Idea is to stimulate industrial participation
  - f. Executive committee is asking for nominations for JHT associate editors, committee chairmen, and ASME fellows.
  - g. Calvin Rice Award - nominations to Gus Plumb for - non US citizen who has been instrumental in internationalizing Engineering
  - h. Engineering Foundation - mechanism for conducting specialized programs - any specialized topics are suitable - if interested then contact Frank Schmidt (format is 3-5 days, no parallel sessions, lots of interaction)
  - i. Classic paper award - K-3 wants nominations for this new award - paper should be at least 15 years. Requirement: living author must come and re-present the paper
  - j. The theme for the 98IMECE is "Global Technologies for the Competitive Edge" - extra sessions will be available for those that contribute to this theme.
- 7. Other Business
  - i. Satellite broadcast of short courses (Darrell Pepper) There will be short courses on 1) Radiation and 2) commercial codes, which will be broadcast out Las Vegas. The speakers for these will be finalized soon and the first announcements will be released.
  - ii. Web page report (Ben Blackwell) - K-20 committee now has a web page with minutes, meeting agendas, etc. It can be accessed via [http://www.cfd.sandia.gov/asme\\_htd\\_k20.html](http://www.cfd.sandia.gov/asme_htd_k20.html). Please give feedback and suggestions to Ben.
  - iii. Collection of solutions for verification of CHT Codes (Ben Blackwell) - These will be included on the Web Site.
- 8. Death of Kunio Hijikata. (noted by Darrell Pepper) - this distinguished Japanese heat transfer researcher passed away suddenly
- 9. Recognition of Darrell Pepper (Ben Blackwell) - The members of the K-20 Computational Heat Transfer Committee express our gratitude to Darrell W. Pepper who conceived the idea of a special committee which would represent Computational Heat Transfer, shepherded it through the Division bureaucracy, and oversaw its growth into a permanent committee. Ben Blackwell presented to Darrell Pepper a plaque with the gratitude of the K-20 committee.
- 10. Adjourn 9:58 AM

Respectfully submitted,  
Keith A. Woodbury

[Return to top](#)

---

[\*\*RETURN to K-20 Committee Homepage\*\*](#)

[RETURN to K-20 Minutes page](#)