



CFD TECHNICAL COMMITTEE

Monday, July 12, 2004

8:00 – 10:15 p.m.

July 2004

Charlotte, NC

MEETING MINUTES

Number of Members in attendance: 20

Peter Raad, Chair of the CFDTC, convened the meeting at 8:05 p.m.

1. The minutes of the Committee Meeting at the FEDSM'03 in Honolulu, Hawaii, and the IMECE'03 in Washington, DC, were unanimously approved.
2. Sub-Committee on CFD Standards
 - a. Chris Freitas reported on the progress of the Sub-Committee. The new standards have been placed on the ASME FED website in order to get feedback from the community. The sub-committee will remain active until the process of public commentary and reviews has been completed.
 - b. Freitas also informed the CFDTC that pursuant to a proposal by Hugh Coleman, an ASME Codes and Standards committee, PTC-61, had been recently formed to address verification and validation standards. The committee is chaired by Coleman; Freitas as vice-chair and Urmila Ghia and Pat Roache are members. Other members are from the HTD K-20 committee.
 - c. The leadership and some members of the CFDTC indicated their surprise at the formation of the PTC-61 without any input or consultation with the CFDTC or even with some members of the CFDTC's Sub-Committee on CFD Standards. After some discussion, Ismail Celik made a **motion** to "recommend to the ASME Codes and Standards committee PTC-61 that an elected member from the CFD TC become a full member of the PTC-61 as a representative of the CFD TC." **The motion was seconded by Deji Demuren and approved by a vote of 16 "for," 0 "against," and 2 "abstaining."**
 - d. Raad congratulated the Sub-Committee on CFD Standards, chaired by U. Ghia, on its hard work and successful outcomes.
3. Sub-Committee on LES Standards
 - a. Pratap Vanka reported that the sub-committee considered the issues and, after consultation with several prominent researchers in the LES community, decided that we needed more experience and practice, and in that sense the time was not yet right for developing standards. However, it was felt that the sub-committee will continue to "watch" the development of the field as well as develop a Symposium/Forum in order to bring together outstanding researchers in the field to test their approaches

against benchmark problems. Karman Ghia reported that NASA had at least three benchmark problems on separated flows; others may exist or be under development. Celik reported that the Symposium that he organized for the current FEDSM has been extremely successful with 28 papers being presented, and several of which may form the body of a special journal issue.

4. Announcement of the plans for the “Institute for Engineering Sciences”

- a. Ali Ogut reminded the group of the continuing discussions regarding forming the six ASME divisions in the basic engineering group into an “Institute” with more autonomy, higher level of synergy, and potential for industry participation. No specific initiatives have yet been taken, but the discussion needs to continue.

5. Elections of Officers

- a. Urmila Ghia, chair of the nominating committee, presented a slate of candidates made up of Deji Demuren and Ismail Celik for Chair and Vice-Chair, respectively. Demuren has served as vice-chair for two years and will now be moving into the chair’s role. The slate was approved by acclamation and the new team was congratulated by the group.

6. Update on JFE by Joe Katz

- a. New CFD standards are up on the website.
- b. We need some minimum standards for LES to provide direction/guidelines for review and publications.
- c. JFE is doing very well; there’s 50% increase in submitted papers over previous years.
- d. There’s no backlog for publication, with accepted papers appearing within six months of being submitted in final form.
- e. CFD and its applications lead the number of submissions at 20% of all papers.
- f. Review cycle has been shortened significantly with less than 14% of manuscripts taking 18 months or more. In many of these cases, however, the issue is typically with authors not responding promptly with their revisions. Delays are not longer an associate editors’ issue.
- g. Transition to web-based submission and review continues.
- h. JFE needs recommendations for an associate editor for RANS turbulence modeling.

7. David Halt was elected as the CFD TC’s representative to the Awards and Honors committee.

8. A representative is still needed to the Communications committee. No volunteers presented themselves.

9. Discussion and Approval of “Calls for Papers” for future meetings:

- a. Approved Fora for FEDSM'05, Houston, TX:
 - i. Education and Training in CFD, S. P. Vanka and U. Ghia.
 - ii. Multigrid Methods for Engineering Flows, S. P. Vanka and U. Ghia.
 - iii. Prediction of the Aero-acoustics noise generated by turbomachines, T. Belamri, M. Dhaubhadel, F. Bakir, and S. Moreau.
 - iv. CFD Applications in Large Facilities, Z. Konecni, C. Ammerman, and I. Yavuz.
 - v. Advances in Free Surface and Interface Fluid Dynamics (XI), P. Raad, A. Tomiyama, and G. Tryggvason.
- b. Approved Symposia for FEDSM'06, tentatively Miami, FL:
 - i. Fluid-Structure Interaction and Flow-Induced Noise in Industrial Applications, S. Roy, D. R. Reddy, and M. Visbal.
 - ii. Algorithmic Developments in CFD, S. Roy, D. R. Reddy, and M. Visbal.

10. The meeting adjourned at 10:15 pm