

ASME Design Engineering Division General Committee Meeting
Minutes of the meeting on
Sunday March 19th, 2006
UIC Campus, Room 1043 ERF
Chicago, Illinois

Present: S. Agrawal, S. Azarm, W. Chen, P. Doepker, W. Clark, N. El-Ghobashy (teleconferencing), K.C. Gupta, K. Kazerounian, M. McCarthy (teleconferencing), L. Saggere, A. Shabana, J. Vance, K.W. Wang.

1. The meeting was called to Order by K.C. Gupta at 1:15 pm.
2. **Approval of the Minutes:** The minutes of the General Committee Meeting on Thursday September 27th, 2005 held in Long Beach, California were unanimously approved.
3. **Chair's Report:** K.C. Gupta presented the Executive Committee report (oral report only). The highlights of this report are as follows:
 - The new DED web site will be up soon. Krish encouraged the attendants to send their feedback to him or to Shayne.
 - Budget allocation: Two requests from two technical committees (MSND and MNS) were received for budget allocations. The requests were partially and fully approved. The fund should not be used for travel. Flat honoraria payments are certainly appropriate for keynote speakers.
 - The discussion on the IMECE and IDETC participation was summarized. IMECE revenue for the DED is small. Some technical committees plan to stay with IMECE while other committees are considering moving to IDETC to get a bigger share of the revenue. IDETC participation also allows more flexibility in conference organization and operation.
 - A proposal on a new ASME Journal on medical devices cosponsored by the Bioengineering Division and DED is being prepared. A special issue of the ASME Journal of Biomechanical Engineering on this topic came out recently. Discussion with Art Erdman on DED co-sponsorship of the newly proposed journal on biomedical devices is continuing. K. Kazerounian is our liaison. The DED is involved with total of 6 journals.
 - Tel-conferencing was tested this morning during the Executive Committee meeting. Noha reported that ASME is becoming more entrepreneurial. ASME is coming up with a new formula for the conferences.
4. **Vice Chair and Treasurer's Report:** S. Azarm presented the Treasurer's report (oral report only). Shapour reported that the DED is doing well in terms of finances. The process of distributing the excess revenue is being finalized. The distribution will be based on the number of papers and sessions. Special requests for funding from technical committees were discussed.
5. **IMECE and Technical Committee Reports:** J. Vance reported on the IMECE and various technical committee activities. Judy indicated that all technical committees provided written reports for this meeting.
 - (a) Design Automation Committee: W. Chen reported on the activities of DAC (oral & written). DAC is doing well and enjoys steady growth. The 2005 DAC conference at Long Beach sponsored 30 technical sessions and 129 papers. A large number of people attended the committee meeting in Long Beach.

- (b) Design Education Committee: P. Doepker reported on the DE activities (oral & written). Phil mentioned that two years ago Clive Dym revitalized the committee and stepped down. Phil became the chair of the committee. The committee will sponsor 10 sessions at the 2006 IDETC. The sessions cover several areas including design projects, industry and academic collaboration, pure design education, and design classroom facilities. There will be three keynote speakers (Clive Dym, Crispn Hale, and Chris McMahon). The committee is also sponsoring one session in the NMW and successfully participated in the selection for the Spira Design Educator Award. There is a need for someone to head the Triodyne honors and awards activities, to identify a plan for presenting at future IDETC's, and for someone to head the committee's technical conference activity at IDETC.
- (c) Design for Manufacturing Committee: (written report only).
- (d) Design Theory and Methodology: (written report only).
- (e) Fastening and Joining: (written report only).
- (f) Mechanisms and Robotics: S. Agrawal presented the Mechanisms and Robotics Committee report (oral & written). He mentioned that the M & R Committee is healthy and doing well. The committee switched to annual conference and chair. The M & R conference had 124 papers accepted and 2 keynote speakers at the 2005 DETC's in Long Beach. The preparation for the 30th Mechanism Conference is going well. The awards sponsored by the committee are listed in the written report. The Biomimicry Prize will be for ASME and is not limited to mechanism. Sunil explained the changes in the Bylaws as the result of switching from two years to one year cycle. The revised Bylaws were unanimously approved by the members of the General Committee.
- (g) Micro and Nano Systems: L. Saggere presented the MNS Committee report (oral & written). Laxman mentioned that the committee was formed in July of last year. It was possible to arrange a committee meeting last September. The mission of the committee is summarized in the written report. The committee currently has 16 members and there are 4 vacant positions. The committee website was created. A symposium is being organized at the 2006 IMECE. Total of 54 abstracts have been submitted to the sessions sponsored by MNS and the MEMS Division. MNS is maintaining a close relationship with the ASME MEMS Division. The MNS Committee will have its first formal meeting at the 2006 IMECE. Some urgent businesses such as approval of Bylaws will be conducted by E-mails. The term of the committee chair is for 2 years starting January 2006.
- (h) Multibody Systems and Nonlinear Dynamics: (written report only).
- (i) Power Transmission and Gearing: (written report only).
- (j) Reliability, Stress Analysis, and Failure Prevention: (written report only).
- (k) Vehicle Design: (written report only).
- (l) Vibration and Sound: W. Clark presented the TCVS report (oral & written). The committee requested 14 sessions for the 2006 IMECE and received 12 sessions. During the committee meeting this morning, a Best Student Paper Award was introduced. The committee would like to increase the number of members from 15 to 24, and more members have been already added. Starting July 2006, George Flowers will be the chair, Chris Rahn will be the vice chair, and Brian Feeny will be the secretary.

6. Journals: The following reports were presented:

- (a) Journal of Mechanical Design: J.M. McCarthy presented the report on the Journal of Mechanical Design (JMD) (oral report only). Mike reported that the journal is still growing and moving from bimonthly to monthly starting January 2007 is being considered. The journal received 490 submissions last year. Projection for this year submission is approximately 600 papers. Percentage of published papers from overall submission is 28%. However, if one considers the out-of-scope submissions, the percentage of the published papers is approximately 40%. The review takes on the average four months. The journal has now around 20 associate editors. The problem created by one of the authors has been solved by the Publication Committee. The journal Impact Factor has been increasing from 0.2 to 0.3 to 0.4 over the last three years.
- (b) Journal of Vibration and Acoustics: K.W. Wang reported on JVA (oral & written). Two new associate editors were nominated and the nominations were approved recently (via e-mail). Special issues of the journal are planned in order to obtain more papers and increase the visibility of the journal. From January to December 2005, the acceptance rate was 40%. In 2005 JVA was given 600 pages by ASME. In 2003, 112 papers were submitted, while in 2005 215 papers were submitted. The Publication Committee granted JVA additional 200 pages (total now 800).
- (c) Journal of Computational and Nonlinear Dynamics: (written report only).
- (d) ASME/IEEE Journal of Mechatronics: (written report only).
- (e) Cooperating Journal: JCISE (no report).

7. ASME Headquarter Report: N. El-Ghobashy presented the ASME Headquarter report (oral report only). The technical divisions have not been operationally changed. ASME will be focusing on globalization, industry and young engineers. The DED can explore the possibility of having its conferences in international location once every two years. The ASME Conference Committee is looking for a new business model. Phil Doepker explained some of the problems his committee members are encountering in using the conference web tool. Shapour Azarm suggested having a unique password for each author instead of having multiple passwords depending on the number of conference papers submitted by a single author. Wei Chen suggested having an ASME server location for the committee web sites instead of using a link to sites at university locations. Krish Gupta suggested that Wei should consult with Shayne Gooch and that he will also try to find out the procedure to do this.

8. IDETC/CIE Technical Conferences: K. Kazerounian reported on the future IDETC/CIE conferences (oral & several written reports). He also mentioned that the 2005 conference was very successful.

- (a) 2006 IDETC/CIE: The preparations are going well. There are on-going discussions on the details of the budget.
- (b) 2007 IDETC/CIE: The preparations are going well. The organizers feel that the IDETC registration fee is high.
- (c) 2008 IDETC/CIE: needs attention.
- (d) 2009 IDETC/CIE: will be in San Diego and it seems to be in a good hand.
- (e) 2010 IDETC/CIE: Proposals were withdrawn. Sunil Agrawal expressed interest in organizing this conference.

9. **Constitution and Bylaws:** (written report only). Krish Gupta mentioned that there have been Bylaws changes from 2003 that need to be approved by ASME. These changes were approved by DED and will be sent to Ken Waldron (Group Leader). The revised Bylaws will be published on the DED website with a statement that they are pending ASME approval.
10. NDEC: (no report).
11. Government Relations: (written report only)
12. Honors and Awards: (written report only).
13. USCToMM: (no report). The \$3000 annual membership fee for IFToMM was discussed and most attendants recommend continuing this country membership for US. However, periodic reporting on IFToMM activities by USCToMM Chair was strongly urged.
14. Design Society: (written report only).
15. Fellow Nominations: (written report only).
16. Member Interest, Member Development: (no report).
17. Publicity and Newsletter: (written report only).
18. Student Affairs: (written report only).
19. Information Management: (written report only).
20. K-12 Awareness of Design Engineering: (written report only).
21. Old Business: Phil Doepker questioned whether ASME and the Design Society have a formal agreement on conference cosponsorship. Krish will look into this matter.
22. New Business: Kazem Kazerounian proposed to consolidate some of the existing standing committees under the umbrella of the Design Education Committee, or possible another coordinating committee (e.g., Outreach Committee). The proposal was discussed by the attendants. Kazem will pursue this idea by contacting the chairs of some of the standing committees. Phil Doepker made a motion that the DED chair send a letter to ASME regarding improvements of the design of the ASME web page to make it easier to get to division pages. The motion was unanimously approved.
23. The meeting was adjourned at 4:00 pm.

Respectfully submitted,

Ahmed A. Shabana
Secretary of the DED General Committee