

Meeting Minutes
Technical Committee on Vibration and Sound
ASME Design Engineering Division

Date : Monday, 16 March, 1998

Time & Place : 12:30 p.m., Room N132, North Building, McCormick Place, Chicago

Present : Members and Ex-Officio

Bergman, Clark, Cudney, Han, Moeller, Mook, Mourelatos, Parker,
Raju, Shabana, Segalman, Sinha, Tan, Vakakis, Wang

Non-members

B. Balachandran, P. Doepker, J. Dohner, C. Hales, R. Hirsch, T. C.
Huang,
H. S. Tzou, K. Waldron

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1. Approval of Minutes

Wang (Chair) called the meeting to order at 12:30 p.m. Segalman pointed out that on page 2 of the minutes of the September 1997 meeting, the sentence "Inman thus suggested that it is better off to split off from the DETC and the TCVS can hence take more control and responsibility of the Vibration Conference." might need clarification. A motion was made by Raju to ask the TCVS Secretary (Tan) to talk to Inman about this point. The motion was seconded by Mook and was approved. Also, on page 4 of the minutes, Shabana pointed out that under §. 2F, the words "two symposia" should be changed to "two sessions".

2. New Business

2A. Report on DED/TCVS custodial fund

Wang announced that a new proposal on the TCVS custodial fund (\$1,000) had been submitted to DED for the next fiscal year (March 1998 - March 1999). In 1997, DED allocated \$1,000 to TCVS based on a proposal submitted by Wang. This fund has been used mainly for expenses related to communication and honorarium, and is managed by the Vice-Chair (Sinha). Wang asked Sinha to give a brief report on the expenses for the current fiscal year (March 1997 - March 1998). Sinha reported the following expenses:

1997 Conference correspondence	\$201
Honorarium for 1997 Den Hartog Award recipient	\$350
TCVS correspondence (August 1997)	\$174
TCVS correspondence (February 1998)	\$144

The above adds up to \$869. Together with other expenses (copying, etc.) for the 1999 DETC, the total expense should come close to \$1,000.

2B. Report on Design Show 98

Shabana reported that only one session on *Motion Control* would be held on 18 March, 1998, during the 8 – 9 a.m. time slot, despite two to three sessions were allotted. He also urged the TCVS to be more actively involved in organizing sessions in the future. The TCVS will not organize any session in 1999, an odd year when the Vibration Conference will be held.

2C. Report on IMECE 98

Clark reported that a request of twelve sessions was submitted to Crispin Hales of DED. But only seven sessions were granted, a substantial reduction from previous even years. Hales explained that there were two major reasons for this reduction. A smaller hotel as the conference venue means a smaller number of sessions can be held, and there is a definite number of sessions allocated for industry and theme sessions (highlight sessions). ASME is trying to seek more industrial participation at IMECE. In all, two highlight sessions were awarded to DED. Hales also added that organizers were notified late of the number of sessions, and this made the planning of sessions difficult. Segalman echoed this concern by suggesting that sessions should be allocated at least fourteen months before the conference and better planning of the sessions is necessary.

For the IMECE 98 in Anaheim, the seven sessions will be distributed among two symposia: *Dynamics, Acoustics, and Simulations* organized by Han, and *Active Control of Vibration and Noise* organized by Tzou and Clark. Doepker asked how many sessions would be needed for the 1999 IMECE at Nashville. Clark and Wang responded that probably four sessions would be requested. At the 1997 IMECE, four sessions were requested and the attendance was good. If someone would like to organize a symposium at the 1999 IMECE, please inform Clark.

2D. Report on Vibration Conference 99

Sinha reported that the conference would be held at the Alexis Park Resort and Spa in Las Vegas. This hotel does not have any gaming activity. ASME has signed a contract to guarantee hotel room rates at \$125, with a maximum of 5% increase. A web site has been established at <http://www.eng.auburn.edu/detc99>. Eventually, links will go from ASME to DETC99 and to the hotel. Based on 1997 experience, effort will be made to ensure that the web link to the hotel will not charge at a higher rate. Other major points reported or

discussed are summarized as follows.

- ☐ The 12th Biennial Conference on Reliability, Stress Analysis and Failure Prevention (RSAFF) was not part of the 1997 DETC. Approval for this conference is pending.
- ☐ Sinha reported that invitation to organize symposia had been sent out. He requested for pos and quick response from TCVS.
- ☐ Sinha will discuss budget with Marisa Scalice of ASME in September 1998.
- ☐ Vakakis requested that there should be a minimum overlap of sessions of similar topics. Sinha agreed to this point.
- ☐ Waldron asked how many meeting rooms would be available. Sinha said the number of room would be similar to that at the 1997 DETC. Moreover, effort will be made to ensure that coffe will be available during session breaks.
- ☐ Raju asked whether there would be any exhibit. Sinha said planning is underway.
- ☐ Flyers with information of the symposium sessions and organizers are targeted for mailing in September 1998.

A handout given by Sinha is attached at the end.

2E. DETC 2001

Wang reported that Mook was endorsed by TCVS to be the Chair of the 2001 DETC during the last meeting in Sacramento. Waldron confirmed that Mook is the only candidate for this chair position. The proposed conference site is Pittsburgh and the proposed local Chair is J. Wickert of Carnegie Mellon University and Vice-Chair is W. Clark of Pittsburgh University. A detailed proposal for DED was prepared by Mook. Mook discussed briefly the advantages of having the conference in Pittsburgh (about 60% of US population lives within 500 miles of Pittsburgh, Pittsburgh has the second best airport in the nation, etc.)

2F. Report on Journal of Vibration and Acoustics

Wang made a report on behalf of Inman.

- ☐ The Journal was given 200 extra pages—a one shot deal with ASME. Thus, the backlog problem seems to be solved for now.
- ☐ Inman is working with ASME on a more flexible page allocation allowed each year.

2G. Liaison Reports

Noise Control and Acoustics Division:

Raju reported that a symposium on *Characterization of Acoustic Materials*, in collaboration with TCVS, had been organized for the 1998 IMECE. Wang asked Raju whether NCAD would be involved in the 1999 Vibration Conference. Raju indicated that NCAD should be willing to help, and he would bring this issue to the committee.

2H. Other New Business

1. Sinha suggested that one of the keynote lectures at the Vibration Conference should be named as the Den Hartog Lecture to be delivered by the recipient. This issue was discussed at the last TCVS meeting and the committee felt that this was a good idea since the award is given for a lifetime achievement. Sinha motioned to name one of the keynote lectures as the Den Hartog Lecture and the lecture will be given by the recipient. The motion was seconded by Mook, and was passed. In the event that the recipient would not be able to deliver the lecture, TCVS would ask the recipient to suggest a list of alternate speakers, and select a speaker from this list.
2. To attract Design Show participants to come to the Vibration Conference, Tzou suggested that the Conference should organize some educational programs/special technical lectures that are useful for these industrial participants. The purpose is not to make a profit, but merely as a service. Segalman commented that, few years ago, Professor Nayfeh gave a talk on parametric excitations and provided a good review of the state-of-the-art. That lecture was very welcomed by the industrial participants. Waldron added that DED is currently experimenting with tutorial sessions. Raju remarked that NCAD had a symposium on *Active Noise Control* for 1.5 hours (2 sessions) in which there was talk and demonstration from the industry. Vakakis indicated that the main task is to select suitable themes (e.g., modal analysis, modal testing) and speakers who are willing to give the tutorial. Wang asked Vakakis to volunteer to organize this activity, and he agreed.
3. Sinha would like to compile a list of international participants to be recognized for their effort in organizing the sessions. Sinha asked TCVS to send those names to him. Doepker asked whether there would be any opportunity to work with other international societies/committees. This discussion was delayed to the MOVIC issue (see item (7) below).
4. Sinha commented that committees for the Den Hartog and Myklestad awards should be formed. Wang said these committees would be formed at the next meeting.
5. ASME felt that it is good to have company display/exhibition at the Vibration Conference. TCVS needs to identify companies (publishers, acoustics companies, software companies, etc.) to work with ASME. Bergman suggested TCVS to get hold of an old program of the International Modal Analysis Conference which draws a lot of industrial participation.
6. Raju suggested that TCVS should encourage student participation at the Vibration Conference and establish a best paper student award. He made a motion to have a student paper award at the 1999 Vibration Conference, and Clark seconded. Listed below are issues discussed in relation to this motion.

- ☐ Segalman asked about the procedure for establishing such an award. Tzou replied that Mike Keefe of University of Delaware has the rules for student competitions. Mook commented that it is important to have a panel of prestigious judges. Bergman commented that at the AIAA Structural Dynamics Conference, the student award consists of \$100 and an award cup.
- ☐ Doepker asked whether anything has been done to improve the privileges of students (for example, student registrants did not get the proceedings CD in the 1997 Vibration Conference). He felt that this is important to encourage student participation.
- ☐ Vakakis asked about the eligibility for this student award, and whether there should be a separate category for students to submit their papers to. Bergman questioned about the motivation of such an award and felt that it would be a logistic nightmare. Cudney agreed that best paper judgment would be logistically difficult. Vakakis added that the selection procedure must be done right. Both Bergman and Vakakis questioned about the logistics of pulling out student papers from regular sessions to compete for this award. Raju replied that the award

could be made based on presentation only. Shabana favored the award to go to undergrads as a means to encourage their participation in the Vibration Conference.

- ☐ Sinha commented that NSF is willing to support students to participate in conferences.

The motion was voted down. Sinha then suggested Raju to write a proposal to NSF to get funding for students participation. Vakakis made the above suggestion a motion and Mook seconded. The motion was passed unanimously.

7. TCVS collaboration with MOVIC (Conference On Motion and Vibration Control)

Wang reported that at the 1997 Vibration Conference, Professor Nonami of JSME discussed with Bergman about the potential cooperation between the MOVIC Conference and the Vibration Conference. Since then, Wang appointed an ad-hoc committee (Tzou and Sinha) to look into this issue. There have been several e-mail discussions between the committee and Nonami. The results are listed as follows.

- ☐ Wang asked Nonami whether this would be a one-shot deal or an on-going cooperation. Nonami preferred to have a one-shot deal in 1999 and determine later the issue of the on-going cooperation.
- ☐ Wang asked Nonami about the format of the cooperation. Nonami proposed three formats: (I) back-to-back independent conferences with MOVIC held right after the Vibration Conference; (II) joint conferences; (III) Vibration Conference will include some extended sessions from MOVIC. From the e-mails, it appears that Nonami preferred option (I).

The discussions at this meeting are summarized as follows.

- ☐ Sinha was concerned about the repetition of papers, and that back-to-back conferences would be too long for participants.
- ☐ Cudney asked whether there would be any additional fee for attending the MOVIC. Bergman commented that there should be some inducement for participants to stay around, e.g., \$50 the conference fee can be applied to the second conference.
- ☐ Segalman commented that: (1) TCVS have absolutely no control over MOVIC; (2) it might be a big hunt for them to reserve a hotel now; (3) TCVS should establish some working relationships with the Japanese societies in the future. He also thought that option (I) would be the best. Sinha was concerned that if MOVIC agreed to option (I) and could not find a hotel, then what would happen?
- ☐ Segalman suggested that TCVS should first have MOVIC agreed to be held in the second part of the week.
- ☐ Doepker asked whether option (II) would work and hence make DETC more international. Wang responded that MOVIC probably do not have a working committee for joint conferences and cooperation is meant to be a starting point between MOVIC and the Vibration Conference.
- ☐ Doepker asked whether the Vibration Conference would lose 60–100 Japanese participants (based on their normal attendance) if option (I) was chosen. Mook commented that slight loss should be maintained to have a dual attendance.

Mook moved to have option (I) as the TCVS choice. Moeller seconded and the motion was passed.

8. At the last Vibration Conference, Ginsberg discussed with Bergman about the change of the name of the Conference to the *Biennial conference on Mechanical Vibration and Sound*. DETC indicated that all TCVS needs to do is to report to them and it will be changed. Segalman moved the motion to change the name as effective as the first time it is practical to do so. Mook seconded and the motion was passed with no oppose.
9. Tzou announced that Wang was elected to the ASME Fellow. The committee applauded this excellent achievement by Wang.

3. Old Business

None was discussed.

4. Election of New Officers

Sinha was elected as the Chair and Tan was elected as the Vice-Chair. Both were elected unanimously.

Secretary – Yang was nominated by Bergman and seconded by Mook. Han was nominated by Sinha and seconded by Segalman. Han was elected.

5. Election of New Members

Han passed out the voting sheets. There were eight candidates on the ballot. After two rounds of voting, H. Cudney (Virginia Tech), J. Dohner (Sandia Labs), R. Greif (Tufts University), J. Mottershead (University of Wales), and A. Vakakis (University of Illinois, Urbana) were elected to serve a three-year term from 1 July 1998 to 30 June 2001.

Mook expressed his appreciation to Wang for a job very well done. The committee appreciated Wang's leadership in the past few years. The meeting was adjourned at 2:50 p.m.

Submitted by: Chin An Tan, (former) TCVS Secretary, 17 October, 1998

Attached: Status report on DETC 1999 (handout from Sinha)