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## MINUTES OF THE FALL 1999 MEETING

Date: Thursday, November 9, 2000

Time & Place: 7:30 PM, Room Europe 3/Lobby Level, Walt Disney World Dolphin Hotel, Orlando

Present: Members and Ex-Officio  
Banerjee, Clark, Dohner, Flowers, Greif, Hamidzadeh, Han, Luo, Parker, Rahn, Royston, Sinha

Non-Members

D. Adams, O. Agrawal, M. Crocker, K. Farhang, R. Ibrahim, D. Mook, H-S. Tzou, K-W. Wang, J. Wickert, W. Zhu

Han (TCVS Vice Chair) called the meeting to order at 7:35 pm. Han pointed out that TCVS Chair (Tan) could not attend because of flight problems, but that Tan had forwarded information regarding items to be discussed during the meeting.

### 1. NSF Directions

Dr. Alison Flatau, of the Dynamic Systems and Control Program of the National Science Foundation, was invited by Tan to speak at the TCVS meeting regarding new funding directions at NSF. She was unable to attend the meeting, but she did provide the following information that was announced at the meeting by Clark:

The new CMS Spring target date for proposals is February 7. The Fall proposal deadline will remain October 1 for now.

The FY 01 budget for NSF is up by 13.6%. This increase is slated for investments in Foundation-wide Initiative Core Investment areas:

- 1) ITR (Information Technology Research)
- 2) Nanotechnology
- 3) Biocomplexity
- 4) 21<sup>st</sup> Century Workforce

Please team across campus to pursue opportunities in these areas.

Within the Engineering Directorate, Eugene Wong has returned to UC Berkeley, and Louis Martin-Vega (formerly Division Director for the Design, Manufacturing & Industrial Innovation Division) is the new Acting Director for

the Directorate. The biggest impact of this change will likely be a slight reduction in the taxing of program funds for “growth area” Engineering Directorate-wide initiatives such as the XYZ on a Chip -- Engineering Microsystems initiative.

## **2. Approval of Minutes**

After one correction was pointed out in the minutes (a correction to the spelling of Inman’s name), a motion was made (Mook) and seconded (Greif) to approve the minutes of the Spring 2000 meeting. The minutes were approved.

## **3. New Business**

### **a) Report on Custodial Fund (Sinha)**

The TCVS request of \$1,500 was approved for next year. Expenses should be sent to Ray Han for reimbursement. No requests have been received so far this year.

### **b) Report on IMECE 2000 (Clark)**

The TCVS sponsored eleven sessions covering three symposia during the 2000 IMECE. The details of these symposia are:

“Dynamics, Acoustics, and Simulations,” organized by A. C. J. Luo, R. Han, and K. H. Lee (7 sessions, 40 papers, 1 bound volume).

“Vibration and Control of Continuous Systems,” organized by C. D. Rahn and J. A. Wickert (3 sessions, 17 papers, 1 bound volume).

“Active Control of Vibration and Noise,” organized by H. S. Tzou (1 session, a bound volume was produced with 25 papers, and was co-sponsored by the Aerospace, Applied Mechanics, and Dynamics Systems and Control Divisions).

### **Report on IMECE 2001 (Flowers)**

Four sessions have been requested from the Design Division (which is our usual request for odd years). Based on input from organizers, an additional two sessions may be filled, and will be requested. Some discussion about our odd vs. even year session allocation followed. Those involved at the Division level believe that we may be able to increase our even-year allocation if we can eliminate the disparity between our odd and even year request. The difficulty, however is filling odd-year sessions, because of the focus on the Vibrations Conference at the IDETC

in odd years. A suggestion was made to possibly trade off with other committees between odd and even years.

There was some discussion of the 2002 IMECE. Sinha pointed out that Michael Paidoussis of McGill University has requested six sessions from the TCVS committee. His intention is to repeat a symposium (Fluid-Structure Interaction, AeroElasticity, & Flow-Induced Vibration and Noise Symposium) that was held at the 1998 IMECE in Anaheim that involved 55 sessions spread across many divisions. A number of other requests for sessions were then made from the group, including Greif (two sessions for High Speed Rail Issues), Han (six-seven sessions for Dynamics, Acoustics, and Simulations), Rahn and Wickert (three sessions for Vibration and Control of Continuous Systems) and Tzou (two sessions for Active Control of Vibration and Noise). Flowers said that he would request up to twenty sessions from Ravani (Division Representative).

**c) Report on IDETC 2001 (Mook and Balachandran)**

Mook is working on revisions with Lauren Posten of ASME. Announcements (20,000) are being mailed, and a web page has been created for the conference. Dean Mook commented on the great effort by Balachandran and Wickert on these tasks.

It is estimated that there will be 605 registrants, including many overseas participants. The estimated conference fee will be \$450+.

The conference has been moved to the Hilton from the original site of the Convention Center and Doubletree Hotel. The city of Pittsburgh has offered to host a reception in light of the fact that our plans to use the Convention Center were scrapped because of renovations.

There will be no slide projectors in the session rooms. Tzou asked how many LCD computer projectors will be available. Fourteen have been budgeted (at a projected cost of \$31,000). Several people mentioned that having an LCD projector in each session room would be best, however it was pointed out that this would be prohibitively expensive. ASME will try to buy laser pointers to use instead of renting them from the hotel. In comparison to past IDETC's, an effort will be made to make more computers available for reading CD ROM's as well as for internet connections at the conference.

The plan is to publish conference papers on CD. Sinha asked why a web-based proceedings is not being considered. The answer given is that web-based proceedings are more expensive than CD's, primarily because of maintenance of the web site. Mook said he will investigate the issue of web-based publishing further.

**d) Appointment of Awards Subcommittee (Han)**

Rob Parker has been appointed Chair of the Awards Subcommittee. Albert Luo has been appointed Co-Chair.

Upcoming awards are the Den Hartog and the Myklestad awards to be given at the 2001 IDETC. Nominations should be given to Rob or Albert. Announcements are to appear in the *Journal of Applied Mechanics*, the *Journal of Vibration and Acoustics*, and *Mechanics*. In addition, nominations have been solicited from members and friends of the TCVS and the AMD Dynamics Committee.

Sinha mentioned that there is also a DED Design Educator Award. This award is routinely given to members within the DED, however TCVS members are rarely (if ever) nominated. We should consider nominating people from the vibrations community for this award. A possibility is to choose from our pool of nominations for the Myklestad and Den Hartog awards.

A question was raised regarding how someone from industry, with no publication record, is to be evaluated for these awards. Mook, Sinha, and Wang responded by saying that such a person would not qualify for the Den Hartog award, but the Myklestad Award is meant for such an applicant. After further discussion, it was clarified that an industrial candidate is evaluated based on his or her innovative contributions.

Mook pointed out that money has been budgeted for awardees to travel to the 2001 IDETC. The Den Hartog winner gives a Keynote Lecture.

**e) Report on the 2001 Design Show (Dohner)**

The Design Show will be held during Manufacturing Week (March 5 & 6, 2001) at the McCormick Place Complex in Chicago.

The TCVS will sponsor two sessions, including:

Session # 1: FEA and SEA Analysis, Theory and Applicability

“Finite Element Analysis (FEA), a method for analyzing structural and acoustic environments,” by Greg Moore of MSC Nastran.

“Statistical Energy Analysis, a design evaluation tool for noise and vibration engineering,” by Michael Bloor of Vibro-Acoustic Sciences, Inc.

Session # 2: Applications in Structural Dynamics

“Applications in Structural Dynamics at Sandia National Laboratories,”  
by Clay W. C. Fulcher of Sandia National Laboratories.

**f) Report on IDETC 2003 (Shabana)**

An agreement with the Downtown Chicago Marriot has been finalized for a room rate of \$175/night.

The current plan for the conference schedule is to start registration on Tuesday, September 2 (after Labor Day), to hold technical sessions on Wednesday through Friday, and to offer tutorials on Saturday, September 6, 2003.

Two possible receptions are being considered, including one by ASME and one by the University of Illinois at Chicago and the University of Notre Dame.

A web site for the conference has been established at [www.me.uic.edu/DETC2003](http://www.me.uic.edu/DETC2003).

Sinha suggested that the committee should begin considering a proposal for the 2005 IDETC. The main concern is that hotels must be arranged well in advance to allow ASME to bargain for low rates.

**g) Report on the *Journal of Vibration and Acoustics***

Bergman’s report was distributed to the attendees.

Sinha pointed out that ASME’s new page limit for journals is nine pages.

**h) Liaison Reports**

*Aerospace Division--Adaptive Structures Committee (Wang)*

The Adaptive Structures Committee participates in four major conferences each year: IMECE, SPIE Smart Materials and Structures, ICAST, and the AIAA Structures, Structural Dynamics and Materials Conference. The Adaptive Structures Committee sponsored one session in Tzou’s IMECE 2000 symposium.

*Noise Control and Acoustics Division (Grosh)*

No Report.

*Applied Mechanics Division (Vakakis)*

No Report.

Tzou pointed out that the Applied Mechanics Division sponsored one session in his IMECE 2000 symposium.

*Design Engineering Division – Power Transmission and Gearing Committee (Parker)*

The PT&G Committee has decided to align their biennial conference (typically in even years at IDETC) with odd years at IDETC so as to join the Vibrations Conference. This was after some lobbying with members of the PTG committee. They will join us for the first time in Chicago, 2003. There is considerable overlap in both directions (PTG has many vibration and noise papers, and Vibrations has several gear/power transmission belt papers).

*Applied Mechanics Review (Pierre)*

No Report.

**i) Report on TCVS Web Page (Rahn)**

The TCVS web page address is [www.me.psu.edu/tcvs/](http://www.me.psu.edu/tcvs/).

Hyperlinks have been set up from the ASME web page ([www.asme.org](http://www.asme.org), through ASME Links – Committees – TCVS or Technical Divisions – DED – TCVS).

New TCVS rosters have been uploaded. Hyperlinks to email addresses have been updated. Rahn requested that hyperlinks to the personal home pages of all TCVS members be included in the roster. Meeting minutes and agendas have been posted.

A hyperlink has been added for:

- Journal of Vibration and Acoustics  
[www.asme.org/pubs/journals/vibrate/vibrate.htm](http://www.asme.org/pubs/journals/vibrate/vibrate.htm).
- ASME IMECE 2000 and IDETC 2001

Rahn requested web addresses of other journals and conferences of interest.

The TCVS website has been registered with over thirty search engines including Yahoo, Netscape, and Lycos

Rahn invited members and friends to visit the web page and provide feedback and comments.

**j) Appointment of ASME Fellow Nominating Subcommittee (Han)**

Kon-Well Wang has been appointed as Chair, and Tom Royston as Co-Chair of the ASME Fellow Nominating Subcommittee. Since Wang is not currently a member of TCVS, it was moved (Parker) and seconded (Han)

that he be approved as sub-committee chair. The motion was approved by the committee.

Wang asked for nominations for ASME Fellow to be forwarded to him.

Han asked for the criteria for such candidates. It was pointed out that this information can be found on the ASME web site. In general a nominee should have ten years of continuous ASME membership at the Associate or Member level. In addition, letters of recommendation are required.

#### **k) Appointment of Membership Nominating Subcommittee (Han)**

Karl Grosh has been appointed as Chair, and Bappaditya Banerjee Co-Chair of the Membership Nominating Subcommittee.

#### **l) Discussion on ISCORMA 2001**

In previous correspondence with the ASME and the TCVS, Donald Bentley has requested that ASME be a "Cooperating Organization" in the 2001 International Symposium on Stability Control of Rotating Machinery (ISCORMA). Fred Goldfard (ASME) clarified "cooperation" as "participation" in ASME terms, involving paper presentation, session organization, etc., but no financial involvement.

A motion was made (Banerjee) and seconded (Flowers) that the TCVS support the ISCORMA 2001 conference. Some discussion followed regarding what it means to provide our support, and whether that is a reasonable thing to do. The result of the discussion was that as long as the conference does not conflict with the committee's purposes and is a legitimate technical conference, then we need not be opposed to lending our support. After the discussion, the motion was passed by vote.

Han suggested that if a liaison is needed for this conference, then Tan will appoint one.

The conference is to be held August 20-24, 2001 at South Lake Tahoe, California. Information can be found at <http://www.iscorma.com/>.

#### **m) Other New Business**

- Sinha suggested that the committee should generate a IDETC 2005 proposal by the March 2001 meeting. This should be initiated by email in the meantime.

- A subcommittee was appointed to investigate how stronger committee ties can be made with industry. The committee is made up of Banerjee, Dohner, and Tzou, and will be chaired by Dohner.
- Crocker expressed his thanks for the support of the committee for the 7<sup>th</sup> International Congress on Sound and Vibration. The next conference will be in Hong Kong during July 2-6, 2001. Flyers were distributed. Upcoming conferences will be July 8-12, 2002 at the University of Central Florida co-sponsored by the Kennedy Space Center; in Stockholm, Sweden (2003); and in Lisbon, Portugal (2004).

#### **4. Old Business.**

None.

The meeting was adjourned at 9:33 pm.

Minutes prepared by William W. Clark, Secretary of TCVS.