
MINUTES OF THE SPRING 2006 MEETING

Date: Sunday, March 16 2006

Time & Place: Room 1047 ERF Building, 842 W. Taylor Street
University of Illinois at Chicago

Present: Members and Ex-Officio
Berger, Clark, Epureanu, Feeny, Flowers, Hamidzadeh, Jalili, Mei,
Quinn, Raman, Rahn, Rook, Royston, Shen, Wang
Non-Members
Caruntu, Dai, He, Kalmar-Nagy, Luo, Mann, Tzou, Suh

Clark (TCVS Chair) called the meeting to order at 10:10 a.m. Each of those in attendance introduced himself/herself.

1. Approval of Minutes

A motion was made and seconded to approve the minutes of the Fall 2005 meeting. The minutes were approved.

2. New Business

a) TCVS Treasurer's Report (Flowers)

The table below shows the three TCVS accounts as of Feb. 2006. The balances for the award accounts are still not near the \$50K specified by ASME to push the awards up to the division level. Funds from IDETC 2005 have not yet been distributed, however.

Description	Beginning Balance June 30, 2005	Ending Balance February 28, 2006
Sub-Account 5041 – TCVS Discretionary	\$815.97	\$909.26
Sub-Account 5007 – Myklestad Award	\$11,113.60	\$11,667.19
Sub-Account 5004 – Den Hartog Award	\$28,418.95	\$30,326.03

(b) Report on IMECE 2005 (Feeny)

Feeny reported that three symposia are planned for IMECE 06 (See Appendix A). TCVS requested 14 sessions and was allocated 12. 60 abstracts have been submitted and should fill up the 12 sessions. The papers will be divided between the three symposia. Panel sessions have been requested in emerging research and teaching areas. Clark commended the steady presence of TCVS at IMECE – around 12 sessions in both odd and even years. Flowers stated that funds from IMECE will now be distributed to the Division and eventually the committee.

(c) Report on IDETC 2005 (Hamidzadeh and Luo)

Hamidzadeh reported that TCVS got the highest number of papers and participants at IDETC 2005 (See Appendix B). The net revenue was a surplus of \$125,609. Hamidzadeh gave credit to the committee and Luo. The committee thanked Luo and Hamidzadeh for their service.

(d) Report on IDETC 2007 (Tzou)

Tzou reported that the 2007 IDETC meeting has been set for 9/4/06 – 9/7/06 at the Rio All-Suite Hotel & Casino, Las Vegas, Nevada (See Appendix C). Tzou thanked Jalili for volunteering to be the technical program chair. Clark and Flowers are the conference vice-chairs. An International Steering Committee has been setup to promote international IDETC participation. The website should be up and running shortly. Tzou asked the committee to organize symposia. Tzou will visit the hotel next week. The regular cost is around \$300/night but ASME has negotiated a good rate (around \$150/night). Tzou proposed that Mike Rocco at NSF provide one keynote in nanotechnology applied to design. Another keynote might be in the biomedical area and Tzou asked for suggestions. Hamidzadeh indicated that usually the Den Hartog award winner presents one of the two keynotes. Raman indicated that cyber infrastructure areas might also be useful.

Kalmar-Nagy asked about best paper awards for students. Wang indicated that it was the responsibility of the conference organizers. Epureanu volunteered to chair a committee that would look at student awards from within TCVS. Jalili discussed the procedure used in the DSC. Discussion regarding the details of these awards ensued. Quinn recommended coordination with the MSDN subcommittee on awards. Feeny proposed a motion that TCVS establish a best student paper award for the vibration conference at IDETC 2007. Wang seconded. Flowers asked whether student paper award “nominees” can have their registration fees waived. Epureanu suggested three requirements. First, the student must be first author. Second, the student must present the paper. Third, the applicant must be a student at time of submission. Feeny indicated that waiving the student registration was like a kick-back to the advisor. Cash awards to the student were discussed. Clark proposed to give \$500 from the TCVS budget for this activity. Clark appointed Epureanu to chair the subcommittee. Mann and Kalmar-Nagy volunteered to participate on the committee. The award name was agreed to be something like

“Best Student Paper Award of the 21st Biennial Conference on Mechanical Vibration and Noise.”

Jalili reminded committee members that symposia are solicited for the conference. Jalili plans to develop themes to help organize the conference. Organizers will be able to organize their papers within their sessions under these themes. He requested a simple one-page flyer for each symposium. Epureanu indicated that paper poaching might be a problem with multiple organizers in the same symposium. Jalili indicated that controls will be in place to prevent this problem as was done with IDETC 2005. Jalili may try to combine symposia if they have similar titles/topics. Luo recommended that they keep the symposia small with fewer numbers of organizers to make the organizers take responsibility. Epureanu suggested that sessions with similar names be combined into I, II, and III. Tzou agreed and said that the specific sessions could be given to different organizers. Luo indicated that we should make sure that the money comes to TCVS for symposia like MESA. Hamidzadeh emphasized this point.

(e) Looking ahead to IDETC 2009 (Flowers)

Flowers reported that he and Anderson will be co-chairs for IDETC 2009 (See Appendix D). Dankowicz and Quinn agreed to be program co-chairs. The San Diego Sheraton is a possible site for the conference. Webpage development has been initiated. Clark suggested that planning for the 2011 meeting be initiated by the beginning of 2007.

(f) Report on Journal of Vibration and Acoustics (Wang)

Wang presented his report (See Appendix E). New Associate Editors have been nominated and approved by DED: Feeny and Rahn. Wang encouraged the transfer of papers from conferences to the journal and discussed possible special issues in the future. Several people at ASME were replaced with some delay but now everything is back on track. Webtool analysis shows that the nominal acceptance rate is 40% and the average time from submission to editor decision is 7 – 8 months. Wang is working to reduce this time. The journal is experiencing paper submissions that have almost doubled in the last two years. There is currently approximately a 5 issue backlog for the journal. ASME has increased JVA page count from 600 to 800 pages and this will cut the backlog to 2 months. The increase in papers is partially due to the webtool ease of submission.

(g) Liaison Reports

- **Applied Mechanics Div. (Dynamic Systems & Structures Committee) – Luo**
Epureanu reported that three symposia are scheduled for IMECE. Only 5 sessions have been allocated, however.
- **Applied Mechanics Review – Pierre**
No report.
- **Aerospace Division (Adaptive Structures Committee) – Wang**
This committee sponsored four conferences last year. The committee is growing

rapidly with a large membership base. They are looking into forming their own division. Clark discussed the fact that the Damping and Isolation Conference has been integrated with the Smart Structures and Integrated Systems Conference at SPIE.

- **Design Engineering Div. (Power Transmission & Gearing Committee) – Parker**

No report.

- **International Activities Committee**

No report.

- **Micro and Nano Systems Committee – Raman**

Raman distributed the DED report to the committee. The MNS committee was formed in July 2005. It focuses on dynamics, vibration, and design of micro/nano systems. The committee has 16 members and three executive officers. There is good representation from TCVS on the committee. At IMECE 2005, the committee will be electing four new members. Fifty four abstracts have been submitted to MNS symposia at IMECE 2005 for four sessions so some papers might be put into poster sessions. Flowers asked about participation at IDETC. Raman indicated that the plan is to participate in odd-year IDETC with a separate MNS conference.

- **Multibody Systems and Nonlinear Dynamics Committee**

No report.

- **Noise Control Acoustics Div. – Grosh**

Wang spoke with Hambric and NCAD apparently has poor attendance at IMECE. They may be participating in IDETC in the odd years instead. Raman questioned whether DSC also was considering IDETC participation in odd years. Jalili indicated that they may be starting their own conference in the near future. Luo suggested that TCVS start or take over an even year conference.

h) Report on TCVS WebPage (Berger)

Berger took over the web pages for TCVS and successfully transitioned them to an ASME server. The new home page is

<http://divisions.asme.org/ded/tcvs/tcvs%20pages/Home.html>. He updated the information and format. He requested input from the committee as to corrections/updates and other information that could be posted on the TCVS website. Jalili suggested that a newsletter be produced. Epureanu suggested a blog. Rahn recommended that the roster go through the secretary rather than directly to the web.

i) Report from Industrial Subcommittee

No report.

j) Report from ASME Fellow Nominating Subcommittee (Wang)

Some candidates have been nominated and Wang hopes to announce good news in the near future.

3. New Business

a) Follow-up from Fall meeting on the issue of increasing the nominal size of TCVS (Clark)

Clark advocated the increase of the TCVS committee size from 15 to 25 with the term limits in place. This would require a change to the bylaws. Quinn recommended that the number should be divisible by 3. Epureanu indicated a problem with too many members rotating off if the change is put into place all at once. Clark recommended that the number be increased and then a method of dealing with the large change in membership would be discussed. Epureanu made a motion to change the bylaws to increase the nominal number of committee members to 24. The motion received 14 votes from committee members and therefore passed. Clark will submit the change in by-laws to the DED next Fall for approval.

Clark then suggested a process for gradually increasing the number of committee members. He proposed one year, two or three year terms to allow gradual phasing in of new members. Quinn suggested that the one and two year terms not count as full term limits for these candidates. Clark suggested that the highest vote receiving candidates get the full terms. Rahn suggested four or five year terms. Raman suggested staggered terms with a different start time. Flowers moved that one, two, and three year terms be used to phase in the increase in numbers. Berger seconded. Clark indicated that these shorter terms would allow two full length three year terms afterward. The motion passed unanimously.

b) Discussion of the Spring meeting location. (Clark)

Due to time constraints, Clark deferred this discussion to another time.

c) Election of new officers (Clark)

Clark nominated Flowers for Chair. The committee unanimously elected Flowers as Chair. Flowers nominated Rahn for Vice-Chair. The committee unanimously elected Rahn as Vice-Chair. Rahn nominated Feeny as Secretary. The committee unanimously elected Feeny as Secretary.

d) Election of new members (Quinn)

Quinn introduced the 16 applicants for TCVS membership. With the new rules, there are eleven returning members, so 7 three-year, three two-year, and three one-year term members were to be elected. Doug Adams, Ed Berger, Malcolm

Crocker, Xiaoling He, Brian Mann, Steve Shaw, and Steve Shen were elected for three year terms. Dumitru Caruntu, Liming Dai, and Amit Shukla were elected for two year terms. Jiong Tang, Steve Suh, and Jean Zu were elected for one year terms.

The meeting adjourned at 12:38 p.m.

Appendix A: IMECE '06 Report

Report: TCVS activities at IMECE'06, Chicago, Nov. 5-10.

14 Sessions were requested, but 12 were granted.

TCVS sponsors three symposia

- a. Symposium on Dynamics, Acoustics and Simulations (DAS, Hamidzadeh and Luo, 6 sessions requested, 38 abstracts received).
- b. Symposium on the Dynamics, Identification and Experiments (DynIE, Kerschen and Feeny, 19 abstracts received).
- c. Symposium on the Nonsmooth and Discontinuous Dynamical Systems (NDDS, Shukla, 3 abstracts received).

Total: 60 papers, good for 12 sessions with 5 papers per session. Can re-shuffle papers such that symposia hold, for example, 8, 3, and 1 sessions.

TCVS Schedule (Wednesday through Thursday, Nov 8-10):

Symposia schedule: as assigned by ASME → Possible re-assignment

Weds 2:00 DE 10 DAS → DynIE
Weds 3:45 DE 11 DAS → DynIE
Thurs 7:45 DE 12A DAS → DynIE
Thurs 9:30 DE 13A DAS
Thurs 11:15 DE 14A DynIE → DAS
Thurs 2:00 DE 15A DynIE → DAS
Thurs 3:45 DE 16A DynIE → DAS
Fri 7:45 DE 17A DynIE → DAS
Fri 9:30 DE 18A NDDS → DAS
Fri 11:15 DE 19A NDDS → DAS
Fri 2:00 DE 20A NDDS → DAS
Fri 3:45 DE 21A NDDS

A session for a panel discussion has been requested. Tentative title is “ Emerging research and educational issues in vibrations”

Appendix B: IDETC 2005 Final Report

REPORT ON

THE 2005 ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES/COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE (IDETC/CIE 2005)

September 24-28, 2005, Long Beach, California, Hyatt Regency Long Beach

Number of technical presentation for each conference

20th Biennial Conference on Mechanical Vibration and Noise	311
5th International Conference on Multibody Systems, Nonlinear Dynamics, and Controls	268
29th Mechanisms and Robotics Conference	122
10th Power Transmission & Gearing Conference	42
10th Design for Manufacturing and the Life Cycle Conference	30
31st Design Automation Conference	128
17th International Conference on Design Theory and Methodology	51
25th Computers and Information in Engineering Conference	128
18th Reliability, Stress Analysis & Failure Prevention Conference	19
2005 ASME/IEEE Conference on Mechatronics, Embedded Systems and Applications	30

Submitted Abstracts and Papers

Abstracts Total	1396
Abstracts Accepted	1324
Draft Papers	1293
Draft Papers Accepted	1129

Registration

Full Registration (advanced)	596
Full Registration (On-Site)	91
One Day (Advanced)	39
One Day (On-Site)	11
Student Members	156
CEI Course (Members)	0
Life Members	3
Student Non-Members	199
TOTAL	1,095

Revenue

Reported Conference Revenue	\$513,970
Revenue Transfer to Tech Pubs	32,069
NET REVENUE	\$481,901

Expenses

Direct	\$247,456
Service Costs	108,837
TOTAL EXPENSE	\$ 356,293

Surplus/(Deficit) \$125,609

DIVISION CUSTODIAN FUND \$125,609

Preparation for the conference is progressing accordance to the established planning milestones
Respectfully Submitted,

Hamid R. Hamidzadeh and Albert C. J. Luo

3/3/2006

TCVS Spring Meeting (March 19, 2006)
Activity Report on IDETC 2007

On behalf of the ASME Design Engineering and Dynamic Systems & Control Divisions, it is our great pleasure to invite you to attend and contribute to the 2007 ASME 21st Biennial Conference on Mechanical Vibration and Noise. This International Conference is integral part of the 2007 ASME International Design Engineering Technical Conferences (IDETC) and will take place on September 4-7, 2007, at the Rio All-Suite Hotel & Casino, Las Vegas, Nevada. This event is the theme of the odd-year IDETC and premier international meeting in the fields of Vibration and Noise Engineering. The conferences will also include plenary sessions, keynote lectures, and tutorials on different topics related to engineering design.

We have contacted all the previous DETC and potential organizers to organize symposia for this conference. In order to provide an effective communication and avoid duplication of symposia, we have used a template to obtain the potential title and topical outlines of these symposia. We would then compile all the information and try to come up with a coherent and effective program, which may require combining some of the similar symposia into one. The initial deadline for this phase has been set for **March 15, 2006**. We look forward to having the opportunity to welcome you in Las Vegas, NV in September 2007.

Sincerely yours,
Nader Jalili, IDETC 2007 Program Chair
Clemson University
Phone: (864) 656-5642, Email: jalili@clemson.edu

Horn-Sen Tzou, IDETC 2007 General Chair
University of Kentucky
www.engr.uky.edu/idetc07

Appendix D: IDETC 2009 Report

IDETC 2009 Status Report

March 3, 2006

1. Organization Committee Finalized

The conference organization committee consists of:

General Co-Chair	General Co-Chair	Program Co-Chair	Program Co-Chair
Kurt Anderson Rensselaer Polytechnic Institute Troy, NY 12180-3590 Tel: (518) 276-2339 E-mail: anderk5@rpi.edu	George Flowers Auburn University, AL 36849- 5341 Tel: (334) 844-3330 E-Mail:	Harry Dankowicz University of Illinois at Urbana- Champaign Urbana, IL 61801 Tel: (217) 244-1231 E-Mail: danko@uiuc.edu	Dane Quinn, University of Akron Akron, OH 44325-3903 Tel: (330) 972-6302 E-Mail: quinn@uakron.edu

2. Conference City has been chosen

Conference will be held in San Diego. Kim Punter was negotiating with her target hotel, the Sheraton San Diego. Kim Punter has left the ASME and her replacement is Erin Dolan, and she has held the position of Meeting Manager for only about two weeks now. Negotiation with hotels has been suspended until Ms. Dolan is up to speed. ASME indicates (Phyllis Klasky) that such hotel negotiations usually do not take place more than two years in advance of event. Other chains besides the Sheraton will be considered.

3. Conference Webpage

No progress yet. Looking into establishing webpage on Rensselaer server.

4. Conference Announcement and Call For Papers

No Progress yet. No attempt has yet been made to produce these.

Report Prepared by
Kurt S. Anderson
ASME Fellow

Appendix E: JVA Report
ASME Journal of Vibration and Acoustics
Report to Publications Committee
March 2006

Purpose and Scope

The purpose of the Journal of Vibration and Acoustics (JVA) is to serve as a vehicle for the communication of original research results of permanent interest in all areas of vibration and acoustics. Papers published by the journal are full-length articles of considerable depth. The journal also presents Technical Briefs, which are intended to serve as a means for the rapid communication of recent developments in an abridged form. Examples of specific topic areas covered include, but not limited to: vibration of continuous and lumped parameter systems; linear and non-linear vibrations; random vibration; modal analysis; mechanical signatures; structural dynamics and control; vibration suppression; vibration isolation; passive and active damping; machinery dynamics; rotor dynamics and vibration; acoustic emission; noise control; machinery noise; structural acoustics; fluid-structure interaction; aeroelasticity; and flow induced noise and vibration.

Associate Editors

New Associate Editors Professor Brian Feeny, Michigan State University, and Professor Christopher Rahn, Penn State University, have been nominated and approved as new associate editors. Their terms began on January 1, 2006. Professor Feeny's major research areas include system identification and friction dynamics. Professor Rahn is an expert in vibration control, mechatronics, and continuous structures. These are some of the areas that JVA is currently getting a huge amount of paper submissions, and thus these new associate editors will be great additions to the Journal.

Special Projects

Through working with the symposium organizers of the 2005 IDETC Mechanical Vibration and Noise Conference, we are planning a couple of special issues for the coming years. The first one will be on *vibration-based structural health monitoring techniques*, with guest editors Bogdan Epureanu (University of Michigan) and Mark Derriso (Air Force Research Labs). We have also communicated with the Conference program chair and symposium organizers to identify and solicit high quality papers from the Conference. These papers will go through the regular rigorous journal review process.

Current Status and Outlook

The ASME publication office has gone through a significant re-organization in 2004. Due to the retirement of the previous production coordinator, the Journal has experienced publication delays since the October 2004 issue. ASME has assigned a temporary staff to become the JVA production coordinator. We have been working very closely with ASME to reduce the delay, and as of the August 2005 issue, JVA is back on its publication schedule.

We have reviewed the status of the Journal using the ASME webtool data from January 2003 through December 2005. During this period, the nominal acceptance rate of the Journal is about 40% to 45%. The average time for a paper to complete the entire review process from submission to final manuscript approval is 11 months (although it only takes about 7 to 8 months from submission to editor decision, which may mean (a) it takes much longer time to accept a paper than to reject one, and (b) it takes some authors a long time to submit their accepted manuscript for final approval). Although the webtool is helpful for us to keep track of the status of the papers and reduce review time, we continue to suffer from the occasional long review cycle, though in many cases the authors share the blame by their reluctance to submit revised manuscripts in a timely way.

In 2005, we have been sending all associate editors a quarterly report with a snap shot of the papers which have been assigned to them and the status that they are in. With this practice we hope to prevent any papers from becoming stalled in the process and causing lengthy delays. We would also add a few more associate editors in the near future to reduce the work load and increase the throughput rate.

In 2005, we have used 607 pages of our allotted 600. The Journal is experiencing an increasing rate of paper submission. There have been 112 papers submitted in 2003, 193 in 2004, and 215 in 2005. In November 2005, a total of 59 papers were in the queue waiting to be printed. Given this number and assuming a nominal of 10 to 12 papers per issue, the predicted back log for the most recent accepted papers at that time was 5 issues. This translates to a ten months wait for the authors after their papers have been accepted. With the increasing paper submission rate and the significant backlog, we requested a page increase from ASME. After the IMECE meeting in November 2005, JVA was allotted an additional 200 pages per year, making the new number of available pages 800. Thus beginning in 2006, the Journal will have about 133 pages per issue. We were able to publish 15 papers in the February 2006 issue. As of February 23, 2006, we have a back log of 61 papers. With the additional allotment of pages, the wait that an author should have would now be four issues, which translates into 8 months.

Respectfully submitted,

Kon-Well Wang, JVA Editor
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Papers Published in 2006

Issue	Full Papers	Tech Briefs	Discussions	Reviews	Misc.	Number of Pages	Total Pages Allocated
February	14	1	0	0	0	132	
April	TBA	TBA	TBA	TBA	TBA	TBA	
June	TBA	TBA	TBA	TBA	TBA	TBA	
August	TBA	TBA	TBA	TBA	TBA	TBA	
October	TBA	TBA	TBA	TBA	TBA	TBA	
December	TBA	TBA	TBA	TBA	TBA	TBA	
Total							800

Papers Published in 2005

Issue	Full Papers	Tech Briefs	Discussions	Reviews	Misc.	Number of Pages	Total Pages Allocated
February	11	0	3	1	3	106	
April	10	2	0	0	0	108	
June	6	4	0	0	0	84	
August	12	2	0	0	0	126	
October	10	1	0	0	0	95	
December	9	1	0	0	0	88	
Total	58	10	3	1	3	607	600

Summary of Activities (January 1, 2003 – February 23, 2006)

	Submitted Papers	Accepted Papers	Rejected Papers	Withdrawn Papers	Removed Papers	% Papers Accepted	% Papers Rejected
2003	112	76	63	26	9	44%	36%
2004	193	87	72	23	12	45%	37%
2005	215	69	76	23	5	40%	44%

Name	Institution	Term 1 End Date	Term 2 End Date	Area of Research
Editor				
Kon-Well Wang	The Pennsylvania State University			
Current and Ongoing Associate Editors				
William C. Clark	University of Pittsburgh	12/31/2006		vibration control, sensors & actuators
Joseph P. Cusumano	The Pennsylvania State University	12/31/2003	12/31/2006	nonlinear and machinery dynamics
Shirley J. Dyke	Washington University	6/1/2006		smart structures, structural health monitoring
Brian Feeney	Michigan State University	12/31/2008		system identification, nonlinear vibration
George Flowers	Auburn University	12/31/2002	6/1/2006	rotordynamics, structural dynamics
Jean-Claude Golinval	University of Liege, Belgium	12/31/2007		modal analysis, testing, finite element updates
Karl Grosh	University of Michigan	12/31/2006		structural acoustics, bioacoustics, MEMS
Steven Hambric	Applied Research Laboratory	6/15/2008		structural acoustics, computational methods
Richard F. Keltie	North Carolina State University	12/31/2004	12/31/2007	structural acoustics, noise control
John A. Main	DARPA	6/1/2006		smart materials, adaptive structures
Sotirios Natsiavas	Aristotle University, Greece	12/31/2006		nonlinear systems, multi-body systems, parameter identification
Roger Ohayon	Conservatoire National des Arts et Metiers, France	12/31/2003	12/31/2006	fluid structure interaction, structural acoustics, smart materials and structures
Robert G. Parker	Ohio State University	12/31/2005	12/31/2008	gyroscopic systems, gear and transmission dynamics
D. Dane Quinn	University of Akron	12/31/2005	12/31/2008	nonlinear dynamics, resonance capture, robust control
Christopher D. Rahn	The Pennsylvania State University	12/31/2008		vibration control, mechatronics, continuous structures
I. Y. (Steve) Shen	University of Washington	6/15/2008		rotating systems, damping, MEMS, smart structures
Chin An Tan	Wayne State University	12/31/2004	12/31/2007	vibration and control of continuous system, friction and braking systems
Jonathan A. Wickert	Carnegie Mellon University	12/31/2003	12/31/2006	vibration of continuous systems, rotating systems, frictional systems