

**ASME Technical Committee on Multibody Systems and Nonlinear Dynamics**  
**(TC-MSND)**

**Tuesday, September 27, 2005, 7.00 P.M. -- 10:00 P.M**  
**Location: Shoreline A, Hyatt Regency, Long Beach, CA**

**Minutes**

**ATTENDEES:**

**Members:** Om Agrawal, Kurt Anderson, Bala Balachandran, Olivier Bauchau, Alain Berlioz, Jin H. Choi, Tamás Kalmár-Nagy, Zheng-Dong Ma, John McPhee, Noel Perkins, Friedrich Pfeiffer, Christophe Pierre, Werner Schiehlen, Ahmed Shabana, Nobuyuki Shimizu, Subhash Sinha

**Friends:** Albrecht Eiber, David Gilsinn, Prakash Krishnaswami, Aki Mikkola, Dan Negrut, Costas Papadimitriou, Giuseppe Rega, Sotirios Natsiavas, Hiroyuki Sugiyama, James Critchley, Wan-Suk Yoo, Xiaopeng Zhao

1. 7:10 PM, Meeting called to order by TC Chair Subhash Sinha
2. 7:15 PM, Approval of the minutes of last meeting without objection.
3. 7:16 PM, Treasurer's report by Kurt Anderson
  - Sheet listing status of DED accounts distributed
  - 1:1 Matching: Approach companies to get endowments up. Discussion that all members of the TC need to continue working to attract donations to the endowment.
  - Goal to get it up to \$40K, so that the awards become ASME Awards instead of Comm. Awards
  - If conference is successful, exceeds funds distributed can be used towards building the endowment
4. 7:20 PM, Report on 2005 Intl. Conference of Multibody Systems, Nonlinear Dynamics, and Control, by Ahmed Shabana
  - Initial plans for 150 paper submissions; 300 papers received with 280 papers for presentation; overall feeling in the TC that the conf. was successful
  - Suggestions, criticisms, etc. requested from symposia organizers and presenters: Conference web tool, coordination among different conferences reg. symposia topics
5. 7:25 PM, Report on Journal for Computational and Nonlinear Dynamics by Subhash Sinha
  - Proposal (by K. Anderson, H. Dankowicz, A. Shabana, and S. Sinha) to start the new journal successful; copies of inaugural issue distributed at TCVS Luncheon and to be distributed at TCMSND Luncheon on the 28<sup>th</sup>
  - Journal statistics distributed; Associate editors doing good work
6. 7.30 PM, Sub-Committee Reports
  - (a)Conference Planning: Subhash Sinha and Kurt Anderson

- 2007, Subhash Sinha: Next conference to be chaired by Professor H. S. Tzou of the University of Kentucky and held at Las Vegas, Nevada; Contract with hotel in Las Vegas already signed
- 2009, Kurt Anderson: Proposal for a conference at San Diego, CA unanimously approved; meeting to be co-chaired by Professor Kurt Anderson of RPI with Professor George Flowers (TCVS) of Auburn University; Sessions to be merged and cross-listed
- Coordination with European colleagues discussed by committee – Subhash Sinha broached the subject of coordinating with ENOC (Prof. Dick van Campen of Eindhoven University, Netherlands) so that the EUROMECH meetings occur during the even years; There is interest from the Dynamic Systems & Control Division in participating during the even years in EUROMECH
- Student paper awards – Kurt Anderson; Best paper awards to focus on students, to be in place, the next time. There was discussion in the committee regarding the role of the student in terms of authorship, use of web tool to identify student submissions, etc. However, the general feeling in the committee was that the details had to be ironed out. A sub-committee consisting of Om Agrawal, Kurt Anderson, Tamás Kalmár-Nagy, and Dan Negrut has been setup.

(b) Member Nomination: Olivier Bauchau and Bala Balachandran

- Three candidates: Aki Mikkola, Prakash Krishnaswami, Wan-Suk Yoo

(c) Publicity & Information: Om Agrawal and Z.D. Ma

- Committee felt that additional effort had to be put into setting up the web site up, collecting information, and updating it – There was discussion about the fractional derivatives symposium and the publicity for it.
- Committee members were requested to encourage prospective authors to submit articles to the ASME Journal of Computational and Nonlinear Dynamics – Subhash Sinha
- Discussion about the need to improve responses to Biomechanics and Finite Element Symposia – Ahmed Shabana

(d) Awards: Werner Schiehlen and Noel Perkins

- Established procedures in place; hand-out distributed; general feeling in the committee that Professors Schiehlen and Perkins did a very nice work for this committee
- Professor Schiehlen wished to step down after two years on this committee and Professor Bauchau was nominated as his replacement by the committee
- Request for nominations; committee discussion suggested that unsuccessful nominees previously considered need to be automatically included in the list for the next time – procedure followed in TCVS; there was general feeling that it would be better to get a new nomination letter but not new support letters
- Discussion about endowment; suggestion that there be one contact person (perhaps, the secretary or treasurer) who will be informed that a certain person in the industry

(potential sponsor) is to be contacted to avoid duplicity in efforts; Need to set up a task group with a point man being the treasurer or the secretary

7. 8:20 PM, New Business

- Location for committee meeting in even years; general feeling that it may not be possible for the Multibody systems community and the Nonlinear dynamics community to meet at a meeting in Europe the coming year, but it may be possible to identify such a location in the future. EUROMECH meeting in Budapest, Hungary in August and Blacksburg meeting in July suggested as possible options – Request made to e-mail suggestions to Subhash Sinha about potential locations

8. 8:30 PM, Recognition of ASME Fellows and Certificates

- 4 nominations for ASME Fellows made and three (Kurt Anderson, Hamid Lankarani, & Werner Schiehlen) were approved; Recognition of Kurt and Werner, who were present at this meeting.
- Recognition of Ahmed Shabana for starting this committee and pushing the new journal – certificate of appreciation awarded.

9. 8:45 PM, Members only

- Voting on three new member nominations in the area of multi-body systems (Professors Mikkola, Krishaswami, and Yoo) – unanimous approval

Meeting adjourned at approximately 9.15 PM, with reception for new journal following.

Submitted by - Bala Balachandran