

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

Wednesday, February 16, 2011, 9:45 AM -10:45 AM (EST)
Teleconference

Minutes

Present: (Members) Bala Balachandran (chair), Aki Mikkola (vice-chair), Harry Dankowicz (recording secretary), Peter Eberhard, Walter Lacarbonara, John McPhee, Rudranarayan Mukherjee, Dan Negrut, Ahmed Shabana, Lawrence Virgin, **(Friends)** James Critchley, Sachin Goyal, Michael Leamy.

Absent members: Kurt Anderson, Olivier Bauchau, Alain Berlioz, Carlo Bottasso, Eric Butcher, Jin-Hwan Choi, Javier Cuadrado, Bogdan Epureanu, Tamas Kalmar-Nagy, Christophe Pierre, Wan-Suk Yoo

1. **Call to order**

Meeting called to order by Bala Balachandran who informed the committee of the recent election of Dan Negrut as incoming recording Secretary, Harry Dankowicz, as incoming vice-Chair, and Aki Mikkola as incoming Chair.

2. **Approval of minutes from last meeting**

A motion was made to approve the minutes of the TC-MSND teleconference on August 27, 2010. The motion was seconded and approved unanimously.

3. **Treasurer's report**

No new information available at this time. Updates will be passed along by e-mail at a later time.

4. **Conference reports**

a. **2011 MSNDC**

Harry Dankowicz (program chair) reported on the 8th International Conference on Multibody Systems, Nonlinear Dynamics, and Control (MSNDC) to be held as part of the 2011 IDETC/CIE meeting in Washington, D.C., August 28-31, 2011. The committee was informed of the keynote lectures by Earl Dowell (the 2011 Lyapunov Awardee) and Javier Garcia de Jalon (the 2011 d'Alembert Awardee) as well as of an honorary award for Eusebius Doedel.

b. **2012 IMSD**

Peter Eberhard reported on the 2nd Joint International Conference on Multibody System Dynamics, the 2012 IMSD, to be held in Stuttgart, Germany, May 29-June 1, 2012, and co-sponsored by TC-MSND. The committee was informed that the conference organization is well underway with seven planned keynotes and 22 identified session organizers for 11 topical sessions. Announcements advertising the conference were to be sent out shortly.

c. **2012 DFD**

Harry Dankowicz reported on the inaugural Biennial International Conference on Dynamics for Design to be organized as part of the 2012 IDETC/CIE conference in Chicago, IL. No new updates were provided at this time, given the intense efforts associated with the 2011 MSDNC.

5. **Journal reports**

a. **JCND**

Ahmed Shabana reported on the status of the Journal of Computational and Nonlinear Dynamics. Arend Schwab, Jose Escalona, and Yoshiaki Terumichi have been appointed as new associate editors. The continued goal is to improve quality and submission rate and quality.

6. **Sub-committee reports**

a. **Publicity & Information**

Sachin Goyal reported to the committee on discussions on how to advertise committee activities through a website. The discussion reflected on the best way to represent the nonlinear dynamics and multibody system communities in a single website. The consensus was that the focus of the website

should be on multibody system dynamics. The issue of access to the ASME website was mentioned again. It was felt that the committee should continue to rely on material deposited to the ASME server in order to allow continuity and independence of committee members. A suggestion was made to create material on a wiki server and then transfer to ASME server. The discussion also considered the content that would be appropriate for the website, including a regular news letters, copies of award lectures, and so on. It was felt that one should avoid duplicating content already on the web by relying on links.

b. **Bylaws & Operating Guidelines**

A motion was made to change the bylaws and operating guidelines to accommodate a change in Officer terms. Specifically, it was proposed that the time frames of the officers extend from October 1 of an odd-numbered year until the end of September two years later. Currently, the committee has this two-year term running from July 1st to June two years later. These revisions follow a suggestion from the Design Engineering Division to make the time frames of officers consistent across the technical committees as well as to have the new terms start after the IDETC in that particular odd year. In the absence of a quorum, a formal vote on this motion was delayed until an e-mail vote.

In addition, the committee was asked to confirm a change in the operating guidelines to guide the committee's actions, in the event there are at least two nominees for an award. A vote on this was also delayed until an e-mail vote.

7. **Other business**

a. **Honorary Awards**

The committee was asked to extend its support for awarding an honorary award to Prof. Eusebius Doedel for his development of the computational bifurcation code AUTO. This follows a tradition of giving honorary awards to individuals who have made particular contributions to computational tools and methods in the nonlinear dynamics and multibody system fields. The recommendation received strong support from the committee.

b. **Conversion of d'Alembert and Lyapunov awards to society level awards**

Bala Balachandran reported on the effort to convert the committee awards to society-level awards. The feedback from the division-level award committee requested additional information justifying this conversion, showing that the award covers a sufficiently broad field. The committee was told that there was a need to push this quickly to take advantage of the current account balance.