

ASME Design Engineering Division

Minutes of the General Committee Meeting

Fall 1998

Bellvue Room, Omni Hotel at CNN Center
Atlanta, GA

Wednesday, 9/16/98
1:00 - 4:00 PM

Please see attachment DED_F98:AttExec for names and addresses of attendees

1 Call to Order

Chair Velinsky called the meeting to order at 1:00 PM.

S. Velinsky

2 Approval of Minutes

The minutes of the Spring 1998 meeting of the General Committee of the Design Engineering Division, held on March 17, 1998 in Chicago, IL, were approved as submitted by 1998-99 secretary Dan Segalman.

*S. Velinsky
T. Chase*

3 Report of Executive Committee

S. Velinsky

3.1 DETC '99 Planning Workshop

Prof. B. Ravani, chair of the 1997 Design Engineering Technical Conferences, hosted a workshop to help prepare for the 1999 DETC in the break between the Executive and General Committee Meetings. The workshop was well received.

3.2 Division Finances

The Division is currently in good financial health. About \$8800 was requested and encumbered for the Division's technical committees for the 1998-99 fiscal year. Funding requests by the Technical Committees will be solicited again in January 1999. In addition, funds from tutorials sponsored by the Technical Committees are passed back to the Committees with no encumbrance by the Division, as tutorials are encouraged to facilitate technology transfer to industrial members.

3.3 1998 DETC

The morning Executive Committee meeting included an extensive discussion of the 1998 Design Engineering Technical Conferences. Therefore, discussion at the general meeting will be limited. (Please see Section 8.1.)

3.4 Long Range Plan to the Systems & Design Group

Chair Velinsky is developing a long range planning document to be submitted to the Systems & Design Group. Several planning suggestions were made in the Executive Committee Meeting. The primary issue was identified as developing improved relations between the Division and ASME Headquarters.

3.5 International Activities

Prof. P. Doepker has chaired an active International Activities committee; please see attachment *DED_F98:Int*.

3.6 DETC Official Name Change

Future DETC's should be advertised as: "ASME International Design Engineering and Computers & Information Engineering Technical Conferences". The prominent "International" qualifier may facilitate attendance by international members. The former "Computers in Engineering Division" has merged with the former "Engineering Information Management Program" to form the "Computers & Information Engineering Division".

3.7 NDEC Meetings Notice

The Spring meetings of the DED General and Executive Committees, traditionally held on Tuesday of the NDEC, will instead be held on Monday, March 15, 1999. This may require some adjustment of the meeting times of the Technical Committees, particularly if they intend to meet before the General Committee. In addition, the DED has been assigned a new meeting room, S503A McCormick Place.

4 Technical Committee Reports

P. Doepker reminded all Technical Committees that they should indicate if they are planning IMECE participation to D. Segalman. *K. Waldron*

4.1 Design Automation

Please see attachment *DED_F98:DA*. The 1998 Design Automation Conference received 82 papers. The acceptance rate was 75%. Session attendance was good with sessions attracting 10-30 registrants each. *J. Vance for A. Parkinson*

4.2 Design for Manufacturing

Please see attachment *DED_F98:DFM*. The Design for Manufacturing Conference attracted much new participation this year. G. Boothroyd provided a good Keynote Address. The Best Paper Award was funded by IBM this year; two Best Paper Awards are likely for 1999. The paper acceptance rate was 61%. *R. Gadh*

K. Jacobson reported great attendance at the Design for Manufacturing sessions at the 1998 NDEC. Efforts will be made to obtain improved session reviews in 1999.

4.3 Design Theory and Methodology

See attachment *DTM_F98:DTM*. The 1998 DETC marked the 10th Design Theory & Methodology (DTM) Conference. The conference had a 53% acceptance rate this year; over 50 registrants attended each DTM session. The Xerox Best Paper Award will be offered one more year; after that time, the award may be renewable. The Committee is working on establishing a new DTM Best Paper Award.

*K. Wood for
J. Cagan*

Reviewers are asked to review one paper if they have not submitted a paper to the DTM conference themselves; they are asked to review two papers if they have. The Committee sends a form with the paper to ensure the paper will not be submitted elsewhere. The Committee found the papers database established by M. McCarthy for the 1996 DETC to be useful for avoiding papers sessions conflicts and encourages its use again in the future. The Committee is currently working on changes to their bylaws.

The committee requested whether the Division would consider funding development of their web site. C. Hales confirmed that such a request would indeed be considered through the normal technical committee funding procedure.

4.4 Education

Please see attachment *DED_F98:EDU*.

4.5 Fastening & Joining

Please see attachment *DED_F98:FastJoin*.

4.6 Mechanisms

Please see attachment *DED_F98:MECH*.

4.7 Power Transmission & Gearing

Please see attachment *DED_F98:PTG*. The Power Transmission & Gearing (PTG) Conference has historically been presented once every four years. The 1998 DETC marked the first time that the PTG Committee offered a smaller conference on the two year mid-cycle. As this was done on an experimental basis, only US and Canadian papers were solicited. The committee was overall happy with the participation and intends to continue off-year conferences starting at DETC 2001. Future conferences will be expanded to international scope. Attendance at each session was about 18-20. Three authors did not attend to present their papers.

*A. Stranford
for N. Anderson*

The next major PTG conference will be held in conjunction with DETC 2000 in Baltimore. The Committee will not sponsor a conference at the 1999 DETC.

The PTG Committee experimented with presenting at the 1998 National Manufacturing Week Conference. They were discouraged by poor attendance.

The Committee is in the process of revising their operating procedures.

4.8 Reliability, Stress Analysis, and Failure Prevention

Please see attachment *DED_F98:RSAFP*.

4.9 Vehicle Design

Please see attachment *DED_F98:VD*. The Committee has requested three sessions at IMECE '99. The *International Journal of Heavy Vehicle System (IJHVS) / Vehicle Design*, affiliated with the United Nations, will be utilized to publicize ASME Vehicle Design Committee events. Dr. El-Gindy will talk with A. Erdman to determine whether Vehicle Design papers presented at the IMECE can be published in the IJHVS or whether ASME may be interested in affiliating with this journal.

M. El-Gindy

4.10 Vibration and Sound

Please see attachment *DED_F98:TCVS*.

5 Liaison Reports

5.1 Headquarters

Please see attachment *DED_F98:ASME_NY*.

F. Goldfarb

ASME headquarters has moved to a new location in New York City. The new contact information is:

ASME International
3 Park Ave
New York, NY 10016-5990
(212)591-7000

A Microelectromechanical Systems (MEMS) subdivision has been spun off by three different divisions: Dynamic Systems & Control, Electrical & Electronic Packaging, and Information Storage & Processing Systems. The MEMS Subdivision is administered by the Systems & Design Group.

Upcoming IMECE information includes: November 14-19, 1999: Nashville, TN & November 5-10, 2000: Orlando, FL.

5.2 Systems and Design Group

The former Engineering Information Management Program has merged with the former Computers in Engineering Division to form a new Computers and Information Engineering Division in the Systems & Design Group. As a result, the Engineering Information Management Program has evolved into an ASME Division that is not encumbered by the special rules associated with a Program. Note that the acronym for this division will remain unchanged as "CIE".

J. Wesner

The Division has developed improved responsiveness with the IMECE committees by delegating two representatives to the IMECE. They are P. Doepker and M. Straffon.

An attractive group web site was by established by T. Liberty, chair of the Design Education Committee. (Please see attachment *DED_F98:Web* for a list of web sites of DED Committees.)

Each Division is requested to send a divisional web manager contact to the Systems & Design Group. This request led to a motion by D. Segalman to create a Design Engineering Division Information Management standing committee to maintain the Division's web page. The motion was seconded by R. Hirsch and unanimously approved. S. Sheppard will forward a name of a candidate to S. Velinsky.

5.3 Applied Mechanics Reviews

Applied Mechanics Reviews has been sunsetted. The remaining functions of this journal have been assumed by the Journal of Vibrations & Acoustics. Therefore, this liaison report will no longer be included on future agendas.

5.4 Journal of Mechanical Design

Please see attachment *DED_F98:JMD*. An acceptance rate of approximately 50% and a papers backlog of about 1.5 issues are considered healthy. The papers backlog has fallen below the desirable level due to a lower number of submissions. As about 100 papers are printed per year, a submission rate of 200 papers per year is targeted. Prof. Tsai would appreciate all members recruiting quality papers for the journal.

L.-W. Tsai

A discussion followed. S. Sheppard asked if we knew the coupling between conference and journal papers. L.-W. Tsai replied that we do not. K. Wood suggested that the DTM Committee may be able to channel some DTM papers from a competing journal. A. Erdman encouraged the technical committees to provide more input to the Editor; if they agree that the Journal could add topics, the Division should discuss it. S. Sheppard suggested that a body of Design Education papers may be available.

5.5 Journal of Vibration and Acoustics

Please see attachment *DED_F98:JVA*.

5.6 ASME/IEEE Journal of Mechatronics

Please see attachment *DED_F98:JMchtrn*. B. Ravani has been appointed a Technical Editor of the Journal. A second representative is from the Systems & Design Group. B. Ravani proposed a special issue on mechatronics systems design; this issue was approved and will be published.

*S. Velinsky
for B. Ra-
vani*

6 Vice Chair's Report

6.1 Finance

The Division is in good financial health with approximately \$140,000 in its treasury.

C. Hales

6.2 Long Range Planning

C. Hales suggested reviewing the Division's awards and how to manage them. Concern is growing that nominations aren't being received for existing awards. S. Sheppard inquired if available awards are posted on the web; T. Chase replied that they are posted off of the ASME web page. S. Sheppard suggested that we also post previous winners of the awards on the web.

6.3 Special Projects

C. Hales encouraged the Division's committees to request funding for mailings, teleconferencing or other projects appropriate to the committees. J. Vance noted that the 1999 DETC will include the 25th Design Automation Conference and wondered

if funding for a special speaker would be considered. C. Hales replied that a proposal for that activity from the Design Automation Committee would be considered. T. Chase noted that speaker expenses are alternately legitimate direct conference expenses if included on the conference budget.

C. Hales noted that P. Doepker is leading a very strong International Activities committee to concentrate on the International part of ASME and the Design Division.

7 Technical Committee Executive

D. Segalman

7.1 International Congress and Exhibition (IMECE)

Please see attachment *DED_F98:IMECE99*. D. Segalman thanked the five committees requesting sessions at IMECE '99 for providing contact information. Some hard session commitments are in place. If a technical committee desires sessions in addition to those now committed, they may be available by addressing the special topic for 1999: *Innovations for Increased Productivity*.

7.2 Division Calendar

D. Segalman has developed a divisional database on Microsoft Access that includes the divisional calendar. The database will be passed on to the new Secretary.

7.3 Liaison with Technical Committees

All technical committees are healthy. D. Segalman will check with the Fastening & Joining Committee to see if they need any assistance in their revitalization. D. Segalman encouraged the committees to organize so that they are not dependent on specific individuals.

A discussion of dealing with the Division's minutes and the committee attachments ensued. S. Sheppard emphasized the importance of attaching names to committee reports. She also emphasized the importance of distributing the minutes within 30 days. R. Hirsch suggested mailing the minutes without attachments and making the attachments available by request only. T. Sankar suggested posting the minutes on the web. D. Segalman noted that printing and mailing the Spring 1998 minutes and attachments cost \$600. S. Velinsky replied that covering the costs of distributing the minutes through the Custodial Account is reasonable.

8 DETC Executive

K. Waldron

8.1 1998 DETC: Brief Summary

H. Lipkin and F. Mistree are to be congratulated for many successes at the 1998 DETC. In particular, the tutorials, the convivium and the exhibition were all very well received. Approximately 410 attendees registered while an attendance of 450 was budgeted; however, due to savings innovated by the organizers, a balance or even a small profit is expected. Difficulties in the program and conference web page were documented to assist future chairs to correct them.

8.2 1999 DETC

Please see attachment *DED_F98:DETC1999*. The 1999 DETC will be held at the Alexis Park Resort in Las Vegas. S. Sinha arranged for the MOVIC group to run their 1999 conference as a symposium within the ASME conference. S. Sinha has expressed frustration in not being able to identify the conference chairs and the papers chairs for the participating conferences. The DED will ask the technical committees to identify these chairs two years in advance to avoid the resulting problems in future DETCs.

8.3 2000 DETC

Please see attachment *DED_F98:DETC2000*. The 2000 DETC will be hosted at the Omni Baltimore Hotel, located 8 miles from the Washington International Airport, on September 10-13, 2000. Clement Gosselin is the overall Program Chair. *Participating committees must submit their conference information immediately to enable posting the correct information on the conference web page.*

L.-W. Tsai

The University of Maryland has agreed to provide \$7,000 to host the conference reception. If sufficient external funding can be identified, the conference will feature a formal banquet with entertainment. J. Wesner suggested working with the local ASME section to recruit registrants and help for the conference.

8.4 2001 DETC

Please see attachment *DED_F98:DETC2001*. The proposal by D. Mook of Virginia Polytechnic Institute to host the 2001 DETC in Pittsburgh has been accepted.

8.5 2002 DETC

One proposal has been received to host the 2002 DETC in southern New England; please see attachment *DED_F98:DETC2002*. Other committees are still able to submit proposals for consideration by the DED.

8.6 2003 DETC

K. Wood of the Design Theory & Methodology Committee has expressed interest in hosting the 2003 DETC in Austin, TX.

9 Immediate Past Chair & Advisory Committee Report

S. Sheppard

S. Sheppard requested nominations for Incoming Member to the Executive Committee for 1999-2000.

S. Sheppard will look into re-instating a “DED Senate Reception” at the DETC’s, as held in a previous conference. Further information is available from Item 5.3 of the Minutes of the Executive Committee Meeting.

S. Sheppard confirmed that she will be scheduling the next Advisory Committee meeting. T. Sankar suggested the Las Vegas DETC as a convenient venue. S. Velinsky suggested that the meeting could also be held by teleconference; he suggested funding a teleconferenced meeting through the custodial account. Re-structuring the Honors

& Awards Committee (please see section 14.2) will be considered as part of that meeting.

10 Constitution and Bylaws

S. Sheppard announced that a new Constitution and Bylaws Chair is pending. T. Chase noted that the revised Constitution and Bylaws of the Design Engineering Division have been submitted to the Systems & Design Group but that no response has been received. J. Wesner volunteered to look into the status of the review.

S. Sheppard

11 National Design Engineering Conference

Please see attachment *DED_F98:NDEC*. 18-20 sessions are planned for the 1999 National Manufacturing Week (NMW) Conference, which includes 140 sessions overall. R. Hirsch expressed concern that design no longer comprises the major focus of the conference. K. Jacobson noted that the NMW venue is excellent for the Design for Manufacturing Committee; their sessions attract a good audience at this conference. Thus, the DFM committee is not enthusiastic about moving to a new venue.

R. Hirsch

R. Hirsch suggested sending a member to check out the "Pacific Design" conference on the west coast as a possible venue for DED sessions. F. Goldfarb suggested also checking the "Atlantic Design and Medical Products Conference".

12 AUTOFACT

ASME has a verbal agreement with SME to receive \$50,000 as a participant in the AUTOFACT conference on September 28 - October 1, 1998. However, no mention of ASME was made in the first ad in the June 1998 issue of *Mechanical Engineering*. The ASME logo was added to the second ad. The program states that "AUTOFACT is evolving" but makes no explicit mention of ASME. Thus, the future of our participation in this conference is indeterminant.

R. Hirsch

13 Government Relations

Please see attachment *DED_F98:GovRel*.

14 Honors and Awards

14.1 Fracture Award Proposal

Please see attachment *DED_F98:FracAward*. As only 5 papers have been submitted to the IMECE in the area of fracture in the last three years, not enough activity exists in fracture to justify the proposed award. The attached report recommends that an alternative be sought for the award. F. Mistree welcomes direction on that alternative.

F. Mistree

A discussion followed. D. Segalman suggested that the Applied Mechanics Division may be a more appropriate home for the award. S. Velinsky responded that the award is too applied in nature to warrant their interest. F. Mistree reinforced that the donor is interested in practice, not theory. The donor would like the award to

encourage papers. C. Hales raised the fear that the award could be lost in the existing awards maze. D. Segalman volunteered to talk with E. Sancaktar to see if the RSAFP Committee is able to nurture the award. If not, F. Mistree suggested that the best solution may be to politely decline the offer of the award. C. Hales asked if he could look into re-orienting the proposed award as a special project; F. Mistree felt that the sponsor may not be enthusiastic about alternatives.

14.2 General Awards Report

Please see attachment *DED_F98:H&A*. The resignation of P. Papalambros has caused a vacancy on the Honors & Awards Committee. F. Mistree suggests re-structuring the committee to generate nominees for awards as well as evaluating applicants. He recommends postponing filling the vacancy to accommodate this potential re-structuring. K. Waldron clarified that a minimum of five members meets the requirements of the committee to process the Machine Design Award. F. Mistree volunteered to coordinate with S. Sheppard to involve the Advisory Committee in this re-structuring.

F. Mistree

F. Mistree noted that confusion arose at the 1998 DETC whether the Awards Luncheon was a DED Awards Luncheon or a Mechanisms Committee Awards Luncheon where the DED has involvement. He recommends that DED awards be made top priority at future DETC's. He suggests that the DETC Executive coordinate the awards at the luncheon. K. Waldron intends to put together a manual for DED conference chairs and will address the awards presentation in that manual.

The first Outstanding Educator Award received very positive comments at DETC '98. The H&A Committee would like to raise \$30,000 to permanently endow the Outstanding Educator Award within 2 years. Ford has made a verbal commitment of \$5,000 to that end. W. Winer will chair the endowment committee. F. Mistree requests channeling profits of the 1998 DETC Exhibition to the endowment. He is seeking volunteers to in turn seek contributors. J. Wesner suggested that the ASME Foundation may be willing to contribute to the award endowment. F. Mistree will work with R. Hirsch to explore this possibility.

The H&A committee suggests presenting the Outstanding Educator Award in 1998, 1999 and 2000 to publicize it, then reducing the award rate to once every other year to enhance its exclusive perception. He made a formal motion to present the award in 1999 but not to use this annual presentation as a precedent. The motion was seconded by K. Waldron and unanimously approved.

C. Hales announced that Triodyne will no longer sponsor a room at the National Manufacturing Week conferences. Therefore, he requests moving the presentation of the Triodyne Safety Award to the DETC.

S. Velinsky observed that the awards were presented extremely well at the 1998 DETC. He recommended using this presentation as a model for future years.

15 International Activities

Please see attachment *DED_F98:Int*. The first meeting of the International Activities Committee was held in March 1998. Avenues for participation were identified at that meeting. The second meeting was held on 9/15/98. The Committee proposes providing non-financial support to five upcoming international conferences: MOVIC 2000, Sydney, Australia; ICED '99, August 24-26, 1999, Munich, Germany; IFToMMM 10th World Congress on the Theory of Machines and Mechanisms, June

P. Doepker

20-24, 1999, Oulu, Finland; IFToMM International Conference on Gearing, Transmission and Mechanical Systems, July 4-6, 2000, Nottingham, UK; and IFToMMM International Symposium on the History of Machines and Mechanisms, May 11-13, September 2000, Cassino, Italy. P. Doepker will request funds from ASME headquarters to register at select international conferences as Chair of the committee. The DED expressed interest in entertaining a standard proposal for funding this request from the custodial account in the case that headquarters declines funding.

16 US Council for the Theory of Machines and Mechanisms

Please see attachment *DED_F98:USCToMM*. The Division pays \$240 dues to belong to IFToMM. Due to the delay in publishing the Division newsletter this year, the due date for abstracts for the 10th World Congress on the Theory of Machines and Mechanisms in Oulu, Finland on June 20-24, 1999 was extended. Affected authors should contact K. Waldron. S. Velinsky suggested that ASME include a coupon in the Oulo conference registration package for the CD proceedings of the 1998 DETC at a large discount. This would have to be coordinated between P. DiVietro and an IFToMM contact. K. Waldron will look into this.

K. Waldron

17 Fellows Nominating

Please see attachment *DED_F98:FelNom*.

R. Hirsch

18 Member Interest / Membership Development

Please see attachment *DED_F98:MbrInt*. S. Sreenivasan volunteered to assist T. Liberty to prepare the 1999 DED Newsletter and asked if further tasks would be appropriate. R. Hirsch suggested that the Member Interest Chair would be a good representative to liaison with potential local chapters paired with the DED, as proposed by a recent Systems & Design Group project. J. Wesner has contact information to pursue this development. C. Hales suggested that the Member Interest Chair could answer Division correspondence channeled from the Chair.

S. Sreenivasan

19 Publicity / Newsletter

Please see attachment *DED_F98:Pub*. Mechanical Engineering Magazine will be publishing a Special Issue on Design in September 1999. We have requested that one article be recruited related to the topical area of each technical committee. In addition, each article will include an inset on the related technical committee with a 1-paragraph statement of the committee's function plus contact information. The DED Technical Committees are provided with an opportunity to suggest authors for the article associated with the Committee; these are usually by industry representatives. This provides an excellent opportunity to potentially improve interaction with industry.

*T. Chase for
T. Liberty*

S. Sheppard suggested that newsletter editors request funds for administrative assistance through the Custodial Fund to facilitate assembly of the newsletter.

20 Student Affairs

Please see attachment *DED_F98:STU*. T. Sankar noted that a new Quebec section of ASME has been formed; at least 200 new student members will be generated from this. *R. Sturges*

21 Old Business

None.

22 New Business

Grants and Confs Program of United Eng Foundation. Please see attachment *DED_F98:UEF*. R. Hirsch encouraged members to review the United Engineering Foundation for possible funding opportunities. *R. Hirsch*

23 Adjournment

Chair Velinsky adjourned the meeting at 4:02 PM.

Respectfully submitted,

Thomas R. Chase
Secretary