

**Report Submitted for the ASME Design Engineering Division
Executive Committee Meeting**

**Tuesday September 4th, 2007
2:30 PM - 5:00 PM
Rio All-Suite Hotel & Casino, Lambda C Room
Las Vegas, Nevada**

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ASME Design Engineering Division
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Agenda
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| | | |
|--|-------------------|---------|
| 1. Call to Order | J. Vance | 2:30 pm |
| 2. Approval of Minutes for March 07 Meeting | W. Clark/L Howell | 2:32 pm |
| 3. Chair's Report | J. Vance | 2:35 pm |
| 4. Vice Chair/Treasurer's Report | K. Kazerounian | 2:50 pm |
| 5. Past Chair's Report | S. Azarm | 3:10 pm |
| 6. Liaison Reports | | |
| (a) Systems and Design Group | K. Waldron | 3:20 pm |
| (b) Headquarters Report | R. Ulvila | 3:30 pm |
| 7. Executive Committee Reports | | |
| (a) Technical Conferences | L. Howell | 3:45 pm |
| • 2007 IDETC/CIE: H. S. Tzou and N. Jalili | | |
| • 2008 IDETC/CIE: J. Rastegar and S. Manoochehri | | |
| • 2009 IDETC/CIE: K. Anderson and G. Flowers | | |
| • 2010 IDETC/CIE: P. Larochelle and A. Murray | | |
| • 2011 IDETC/CIE: TBD | | |
| (b) Technical Committee Operations and IMECE | A. Shabana | 4:05 pm |
| 8. Journal Relations Committee | W. Clark | 4:15 pm |
| (a) Formation of new journal | | |
| 9. Old Business | | 4:25 pm |
| 10. New Business | | |
| Registration waiver policy for IDTEC Conferences | L. Howell | 4:30 pm |
| Award matching program continuation | K. Kazerounian | 4:45 pm |
| ASME/VT Memorial Scholarship Fund | J. Vance | 5:55 pm |
| 11. Adjourn | | 5:00 pm |

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**ASME Design Engineering Division Executive Committee Meeting
Minutes of the meeting (teleconference) on
Friday March 9, 2007**

2 pm – 4 pm EST

1 pm – 3 pm CST

12 pm – 2 pm MST

11 am – 1 pm PST

Present: S. Azarm, W. Clark, E. Dolan, N. El-Ghobashy, K.C. Gupta, L. Howell, N. Jalili, K. Kazerounian, S. Manoochchri, Z. Mourelatos, J. Rastegar, J. Renaud, A. Shabana, H.S. Tzou, J. Vance

1. **Call to order.** The meeting was called to order by S. Azarm at approximately 2 pm EST.
2. **Approval of minutes.** The minutes of the Executive Committee Meeting on Sunday September 10, 2006 held in Philadelphia, Pennsylvania were unanimously approved.
3. **Chair report.** S. Azarm presented the Executive Committee report (oral and written). A summary of the oral report is as follows:
 - **DED meetings:** The DED General Committee meeting will be held at the IDETC once a year, and the Executive Committee meeting will be held twice a year – one in the fall at the DETC, and the other a teleconference in the spring.
 - **Action Item Reminder.** See written report. Non confidential reports should be posted on web.
 - **Finances.** See written report.
 - **Committees.** There are 12 TC's (correction from written report) in the division. TC's to have bylaws.
 - **NMW.** Thanks to John Renaud for his work with NMW. Has also agreed to help Z. Mourelatos get up to speed in the transition.
 - **Newsletter.** Newsletter more expensive than expected. Chin An Tan thanked for work on the newsletter. Jeremy Michalek has taken over. Discussion about continuing mailing out a hardcopy of the newsletter to primary members of the Division resulted in a unanimous decision to continue this year. As costs increase, this decision will be evaluated again in the future years.
4. **Vice Chair/Treasurer's Report.** J. Vance presented the Vice Chair/Treasurer's Report (oral and written). A new description and photo has been added to the ASME website and the DED description format is now consistent with other divisions. J. Vance and W. Clark attended the ASME Leadership meeting. Treasurer's report: finances are in good shape. Micro/nano committee account established with \$2K. Still working on getting revenue distributed. Financial reports from ASME are not regular, but did receive one recently. A proposal for matching funds that committees place in award accounts, up to \$5K, was presented and unanimously approved. A discussion on funding the DaVinci Award led to the approval of a proposal to transfer \$10K to the award account (\$5K from committee and \$5K matching). Because of the change in status of the Outstanding Educator Award, funds in that account will be moved to DaVinci Award account.

Action Item: J. Vance to transfer \$10K to DaVinci Award account. The Outstanding Educator Award account will be closed with the balance moved to the DaVinci Award account. TCs will be informed about the match, upto \$5K, for their award account.
5. **Immediate Past Chair's Report.** K.C. Gupta presented the Immediate Past Chair's Report (oral and written). Executive Committee elections, Division Best Practices Group, and ASME/IEEE Mechatronics issues were discussed.
- 6a. **Liaison's Report – Systems and Design Group.** N. El-Ghobashy reported on behalf of K. Waldron. A request for nominations for various committees is forthcoming.
- 6b. **Liaison's Report – Headquarters.** N. El-Ghobashy presented the Headquarters Report (oral). New staff to be hired by July of this year, but there are no immediate changes to staff interacting with the Executive Committee. E. Dolin reported a 17% surplus (\$40K) for IDETC 2006 on revenue of approximately \$240K. The conference books will be closed soon and the funds distributed.

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- 7a. **Executive Committee Reports – Technical Conferences.** K. Kazounian presented this report (oral and written). 2007 on track with a lot of progress since last fall.
- *2007 IDETC/CIE:* Report presented by H.S. Tzou and N. Jalili (oral and written). Conference preparation on track to be record setting in size. Other discussions included the optimal number of papers in each session and how to deal with no-shows, but there was no resolution on these issues. The organizers are working on ways to effectively use funds to ensure a good experience for attendees.
 - *2008 IDETC/CIE:* Report presented by J. Rastegar and S. Manoochehri (oral and written). The organizers are preparing for interaction with the 2007 IDETC. Committees need to select their conference chairs and it will be important for IDETC organizers to interact with individual conference organizers at the 2007 IDETC. A call for papers in planned for completion by April. Multiple websites will be avoided. ASME usually does conference websites a year in advance, which makes it difficult to add that web address to the call for papers.

Action Item: N. El-Ghobashy and E. Dolan will coordinate with other staff at ASME to see if the IDETC site can be initiated sooner than the usual one-year-before-event schedule.

- 7b. **Executive Committee Reports – Technical Committee Operations.** A. Shabana presented the report (written and oral). New committee chairs were announced. IMECE sessions to be allocated in tracks rather than division by division, with 60% of the income going to divisions.

Action Item: A. Shabana to check DED website to see if it lists the new committee chairs, and send new committee chairs' contact information to S. Gooch for upload to the site if needed.

8. **National Manufacturing Week Technical Conference.** J. Renaud presented an oral report. NMW is moving from March to September. This timing change has resulted in a reduction in session proposals. Only 3 ASME sessions have been proposed so far, but 50 sessions were typical in the past. The conference is missing from the event calendar on ASME's website.

Action Item: N. El-Ghobashy to check on links from ASME pages to NMW page.

9. **Journal of Mechanical Design.** This item was an executive session with only voting members of the Executive Committee in attendance.

10. **Old business.** Minutes and reports on the website.

- *Cost sharing DED custodial funds.* J. Vance presented a proposal (written and oral) for sharing DED custodial funds to support committee awards. The proposal was unanimously approved.

11. **New Business.**

- *2010 IDETC/CIE:* Written proposal submitted by P. Larochelle and A. Murray. K. Kazounian discussed importance of making the decision on conference organizers soon. There was some concern about the venue considering that the IDETC was in Montreal not many years ago. It was proposed that P. Larochelle and A. Murray be the 2010 IDETC Conference Chairs, with the request that they consider other cities in the US for the conference location. The proposal received unanimous support.

Action Item: K. Kazounian to inform P. Larochelle and A. Murray of the decision noted above.

12. Meeting was adjourned at approximately 4:05 pm EST.

Respectfully submitted,

Larry L. Howell
Secretary of the Division

DED Chair's Report September 23, 2007

Personnel Changes

I wish to welcome Professor William W. (Buddy) Clark to the DED Executive Committee. He began his service on the committee July 1, 2007 as Secretary. He is currently Professor of Mechanical Engineering and Director of the Vibration and Control Laboratory and the John A. Swanson Micro and Nanotechnology Laboratory at the University of Pittsburgh. He is past chair of the Technical Committee on Vibration and Sound (TCVS) and a current Associate Editor for the *ASME Journal of Vibrations and Acoustics*.

Congratulations to Noha El-Ghobashy on her promotion to the position of Director, Technical Programming and Development, Knowledge and Community (K&C) Sector, effective July 1st. I am very pleased to see her recognized with this promotion and wish her success in her new leadership role in ASME, although we will really miss working with her on division matters.

A new reorganization of the Knowledge and Community Sector resulted in Richard Ulvila being appointed as the new ASME staff support person. Rich is responsible for supporting all technical divisions in the Systems and Design Group and the Environment and Transportation Group, as well as ASME District A (Northeast) and B (North Central). See the attached Leadership & Communities Personnel Assignments chart for more details on the reorganization of personnel.

All standing and special committee chairs were reappointed with the exception of the Government Relations Committee and the US Federation for the Theory of Machines and Mechanisms (USToMM) representative. Farhad Tahmasebi has been appointed as the Government Relations Committee Chair. Dr. Farhad is employed as an Aerospace Engineer at NASA Goddard Space Flight Center. He has received many awards from NASA for his work including the NASA Outstanding Performance Award and the NASA Group Achievement Award. His achievements are summarized on his website: <http://mysite.verizon.net/farhad99/>.

Professor Harvey Lipkin has agreed to serve as the USToMM representative. Professor Lipkin is an Associate Professor of Mechanical Engineering at Georgia Tech University. He served as the General Co-chair of the 1998 IDETC and is a former Associate Editor of the *ASME Journal of Mechanical Design*. He is also serving the DED as Constitution and Bylaws chair. Thank you to Greg Chirikjian for his past service in this role.

There are two committee chair terms that will end in June 2008: Constitution and Bylaws, and Honors and Awards. In addition, with Pierre Larochelle's increased responsibilities as the 2010 IDETC/CIE Conference Co-chair, he has asked to step down from his position and has suggested this committee be disbanded or refocused. ASME is increasing support for students and early career engineers so perhaps this committee could be reconstituted to serve that community. Nominations for these two open positions are welcome.

Finances

The finances of the division are in good shape. The 2006 IDETC/CIE conference ended with a profit of approximately \$40,000. There are several outstanding issues with fund transfer that need to be resolved with headquarters. As former treasurer, I have passed along the list of issues to the new treasurer, Kazem Kazerounian, who will be following up.

The award matching program offered to the technical committees from the DED Executive Committee as a result of the vote at the March 2007 meeting was very well received with approximately 50% of the TCs participating. Details on the funding are included in the Treasurer's report.

Committees

The Division continues to support 12 technical committees:

- Design Automation
- Design Education
- Design for Manufacturing
- Design Theory and Methodology
- Fastening and Joining
- Mechanisms and Robotics
- Micro & Nano Systems
- Multibody Systems and Nonlinear Dynamics
- Power Transmission and Gearing
- Reliability, Stress Analysis & Failure Prevention
- Vehicle Design
- Vibration and Sound

Journals

The Division continues to support five journals:

- *ASME Journal of Mechanical Design*
- *ASME Journal of Vibration and Acoustics*
- *ASME Journal of Computational and Nonlinear Dynamics*
- *ASME Journal of Computing and Information Science in Engineering* (co-sponsored with the Computer and Information in Engineering (CIE) Division)
- *ASME Journal of Medical Devices* (co-sponsored with Bioengineering Division)

Newsletter

The newsletter was completed in late July. 13,911 domestic copies and 2,245 foreign copies were sent through the mail for a total of 16,162 copies. The cost of the newsletter (without postage) was \$4534 broken down as follows:

17,000 copies - 8 pages 4/4, 8 1/2 x 11 and delivered to the Post Office and New York City,
including preparatory work - \$3,030.00
Creating pdf file for internet - \$80.00
16,162 tabbed - \$364.00
16,162 inkjet address plus barcode and sort - \$1,060.00
Postage is additional.

The extra 838 copies will be sent to the IDETC for distribution. I wish to thank Jeremy Michalek for his excellent work putting together his first newsletter and working with ASME staff and all of the newsletter contributors to get the newsletter out as a quality publication in a timely manner.

Action items from March meeting

Following are the action items from the March 2007 DED Exec meeting.

J. Vance to transfer \$10K to DaVinci Award account. The Outstanding Educator Award account will be closed with the balance moved to the DaVinci Award account. TCs will be informed about the match, up to \$5K, for their award account. – not complete.

N. El-Ghobashy and E. Dolan will coordinate with other staff at ASME to see if the IDETC site can be initiated sooner than the usual one-year-before-event schedule. – status unknown.

A. Shabana to check DED website to see if it lists the new committee chairs, and send new committee chairs' contact information to S. Gooch for upload to the site if needed. – completed.

N. El-Ghobashy to check on links from ASME pages to NMW page. – status unknown.

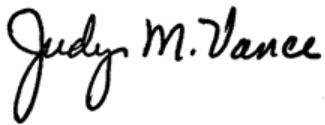
K. Kazerounian to inform P. Larochelle and A. Murray of the decision noted above. (Decision to approve them as the 2010 IDETC Conference Chairs) – completed.

New Standing Committee

I would like to create a new standing committee: Broadening Participation Committee. The purpose of this committee would be to support activities that broaden the participation of minorities and underrepresented DED members in the division. The committee would be responsible for reporting on minority and underrepresented persons participation on technical committees, as associate journal editors, as paper reviewers, as attendees at conferences supported by the division and other aspects of involvement in the division. In addition, this person would be a liaison with the ASME Center for Leadership and Diversity.

The next meeting of the DED Executive Committee will be via conference call on March 6, 2008.

Respectfully submitted,

A handwritten signature in black ink that reads "Judy M. Vance". The signature is written in a cursive, flowing style.

Judy M. Vance
Chair, ASME Design Engineering Division 2007-2008

Leadership & Communities Personnel Assignments

Elio A. Manes, Director, Leadership & Communities (New York)

| Personnel (Location) | Lee Hawkins (Garland, TX) | Vince Dilworth (San Ramon, CA) | Rich Ulvila (New York) | Tom Wendt (Racine, WI) |
|----------------------------|---|--|--|--|
| Role | Technical/Global | Technical/Global | Technical/Global | Leadership/Training |
| <u>Groups</u> Divisions | <u>Basic Engineering</u> Applied Mechanics Bioengineering Fluids Engineering Heat Transfer Materials Tribology <u>Manufacturing</u> Manufacturing Materials Handling Plant Engineering & Maintenance Process Industries Textile Engineering | <u>Energy</u> Advanced Energy Systems Internal Combustion Engine Nuclear Engineering Power Solar Energy <u>Pressure Technology</u> Pressure Vessels & Piping NDE Engineering <u>Eng & Tech Management</u> Management Safety Engineering & Risk Analysis (SERAD) Technology & Society | <u>Systems & Design</u> Computers & Info in Eng Design Engineering Dynamic Systems & Control Elect & Photonic Packaging Fluid Power Systems Info Storage & Processing Systems (ISPS) Microelectromech (MEMS) <u>Environment & Transportation</u> Aerospace Environmental Engineering Noise Control & Acoustics Rail Transportation Solid Waste Processing | Student Leadership Seminars (SLS) Student Professional Development Conferences (SPDC) Leadership Training Conference (LTC) |
| Districts | E – Southwest F – Southeast I – Latin America | D – Pacific G – Asia | A – Northeast B – North Central | C – Midwest J – Middle East H – Europe |



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K&C Leadership & Communities Department Staff Personnel

Vince Dilworth has over 15 years experience with United Airlines, where he managed various departments, including engineering support, strategic planning and the project office. Prior to working with United, Vince spent 6 years with Transamerica Delaval, where he held the positions of Marketing Manager, Purchasing Manager, Division Controller, and Manager of Project Management. He also spent 12 years with PG&E, where his last position was Division Engineer. Upon joining ASME, Vince has held the position of Director, Western Field office located in San Rafael, CA for 3 years. For the past two years at ASME, Vince has held the position of Director, Client Relations, where he managed relationships with major industrial giants, such as Boeing. Vince has a BS in Mechanical Engineering from the University of California-Berkeley and an MBA in Marketing, Finance and Operations Research. He also maintains his PE license in the state of California.

Lee Hawkins has been with ASME for 3 years. During his first year of ASME employment, Lee was the Field Director for the Southern Field Office. Over the past two years, he has been the Director of Client Relations. In addition, Lee has a 15-year proven track record of senior level association management experience, including previous career stints as Director of Member Services and Director of Chapter Services at the American Public Works Association. Lee is originally from Detroit, Michigan and is a graduate of the University of Kansas. He currently resides in the Dallas, Texas area.

Richard Ulvila has been a Program Manager at ASME's New York headquarters for five years. Prior to joining the ASME, he designed and developed computer printers, medical recorders, XY plotters, floppy disks, galvanometers, tape decks, cutting/perforating rule, color measurement instruments and control systems. He managed both union and non-union manufacturing employees and set up manufacturing facility in Puerto Rico. Rich also provided client/server networks, including accounting, manufacturing, and process software. Previous positions and employers include: Executive Vice President (Partner), ABBI Business Systems (New Jersey); Director, Research & Development, Zimmer Industries Inc. (New Jersey); Vice President, Engineering, MACBETH Inc. (New York); and Director of Engineering, Centronics Data Computer Corp. (New Hampshire). He also held various engineering positions with MFE Corp, Raytheon and Hamilton Standard. Rich holds both an MSEE and a BSEE degree from Northeastern University.

Thomas E. Wendt has both a BS in Mechanical Engineering and an MBA from the University of Wisconsin. He is a Licensed Professional Engineer and also holds a certificate as an Engineering Management Professional (EMCP). His career began as an engineer at the Kimberly Clark Corp. He later joined Wisconsin Energy, where through a 22-year career he held several positions, including Director of Operations and Director of Engineering in the natural gas distribution area of the utility business. After leaving Wisconsin Energy, he joined the Institute of Gas Technology as Associate Director of Industrial Education. Tom joined ASME in 1998 as Director of the Midwest Field Office. In 2005, Tom became, Director of Client Relation providing marketing services to industry.

**Treasurer's report
Aug. 21, 2007**

Kazem Kazerounian

DED Accounts:

| Account # | Account name | Balance Dec 31, 2006 | Balance May 31, 07 | Transactions After May | Projected balances Aug. 21st |
|-------------|---------------|-------------------------|-----------------------|---|------------------------------------|
| 4-0414-XXXX | All Accounts | 688,437.52 | 788,655.08 | | 734,343.56 |
| | | 339,886.05 | 415,201.94 | -5K -5K -1K -5K -5K | 375,751.08 |
| 4-0414-0000 | DED Custodial | | | -5K -5K -5K = -36K -450 -3000 | |

Award Accounts:

| | | | | | |
|--------------|------------------|-----------|-----------|-----------------------|-----------|
| 4-0414-5001 | DAC COMM AWD | 36,744.34 | 39,921.35 | +5K +5K | 49,921.35 |
| 4-0414-5002 | ABBOT AWD | 31,686.68 | 34,090.92 | | 34,090.92 |
| 4-0414-5003 | DAVINCI AWD | 724.63 | 826.61 | | 826.61 |
| 4-0414-5004 | DEN. HART. AWD | 33,530.44 | 36,076.43 | +5K +5K -500 | 45,576.43 |
| 4-0414-5005 | OUTSTD EDUC AW | 335.12 | 360.66 | | |
| 4-0414-5006 | MECH&ROB AWD | 14,778.95 | 16,084.73 | -500 -500 -1000 | 14,084.73 |
| 4-0414-5007 | MYKLESTAD AWD | 12,900.25 | 13,883.12 | +5K +5K -500 | 23,383.12 |
| 4-0414-5008 | DTM COMM AWD | 1,221.81 | 1,269.33 | -500 | 769.33 |
| 4-0414-5009 | N. YANG AWD | 56,409.02 | 60,703.33 | -1000 | 59,703.33 |
| 4-0414-5053 | D'ALEMBERT AWD | 17,243.76 | 18,568.60 | +5K +5k -500 | 10,068.60 |
| 4-0414-5054 | LYAPUNOV AWD | 17,243.75 | 18,568.60 | +5K +5k -500 | 10,068.60 |
| | | | | | |
| 4-04145010 * | PTG award | na | 0.00 | +5K + 5K -2000 | 8,000 |
| 4-04145011 * | M&R best pap AWD | na | 0.00 | +5K +5k -500 | 9,500 |
| 4-04145012 * | MNS Award | na | 0.00 | +1k +1k -500 | 1,500 |

* Established in August 2007

Committee Accounts:

| | | | | | |
|-------------|------------------|-----------|-----------|----------------------|-----------|
| 4-0414-5032 | DAC | 12,189.29 | 12,964.44 | -5K -1000 | 6964.44 |
| 4-0414-5034 | M&R | 7,907.32 | 10,683.76 | -5K | 5,683.76 |
| 4-0414-5035 | DFM | 15,902.37 | 17,017.81 | | 17,017.81 |
| 4-0414-5036 | DTM | 16,863.48 | 18,055.74 | | 18,055.74 |
| 4-0414-5037 | RSAFP | 3,949.07 | 4,215.45 | | 4,215.45 |
| 4-0414-5038 | D-EDUC | 5,720.83 | 4,558.47 | | 4,558.47 |
| 4-0414-5041 | TCVC(Vib+Sound) | 22,336.00 | 22,333.83 | -5K -5K | 10,333.83 |
| 4-0414-5042 | PTG | 11,450 | 12,273.44 | -5K -1000 | 6,273.44 |
| 4-0414-5048 | VDGN | 1,820.98 | 1,933.60 | | 1,933.60 |
| 4-0414-5049 | F&J | 1,866.01 | 1,997.43 | | 1,997.43 |
| 4-0414-5050 | MSND | 23,537.34 | 25,021.36 | -5K -5K -1000 | 14,021.36 |
| 4-0414-5060 | MNS | 2,195.16 | 2,044.13 | -1K -1000 | 44.13 |

- -\$36K from DED division account is matched by \$36K from committees (per approval of the Exec committee and request of the committees) to establish new awards or increase the balances of the existing awards.

5K from DED Custodial + 5K from M&R for M&R Best Paper Award (new)
 5K from DED Custodial + 5K from PTG for PTG committee Award (new)
 1K from DED Custodial + 1K from MSN for MSN Committee Award (new)
 5K from DED Custodial + 5K from DAC for DAC Comm. Award
 5K from DED Custodial + 5K from TCVC for Den Hard Award
 5K from DED Custodial + 5K from TCVC for MYKLESTAD Award
 5K from DED Custodial + 5K from MSND for D'ALEMBERT Award
 5K from DED Custodial + 5K from MSND for LYAPUNOV Award
 1K from DED Custodial + 1K from MSN for MSN Committee Award (new)

- Revenue from 2006 is projected to be about \$ 32K to be yet distributed.
- Revenues from IMECE 2003, 2004, NMW 2003, IDETC 2004, IDETC 2005 are distributed and pushed down to committees. **Some discrepancies (\$3,304.60) to be worked out.**
- **It is not clear if NMW 2004 (\$7,519) and NMW 2005 (\$3,448) have been deposited to DED account yet.**
- **A number of other minor items needs to be followed up with ASME staff. However, the accounting staff are not very responsive. Request have been made by the previous treasurers and myself. Under the present mode of operation, it is IMPOSSIBLE to resolve these.**

Immediate Past Chair's Report

August 20, 2007

This past year, which ended on June 30, 2007, was an exciting year to lead the division. I already summarized my report from last year in the *2007 Design Newsletter* (see the link: <http://divisions.asme.org/ded/newsletIndex.html>). Some of the highlights of that report are as follows. We had the successful International Design Engineering Technical Conferences (IDETC) in Philadelphia in September 2006 under the leadership of Dr. Vijay Kumar and other organizers. I suppose we had some excess revenues from IDETC 2006, however, I still have not heard from ASME HQ about it. I saw first hand the critical role that the Technical Committees (TCs) play for the Division. I set a policy for all TCs to have bylaws (and most do) with clear plans for leadership succession and a website. In particular, with respect to the leadership succession, I would like to bring to your attention that according to our DED's Bylaws ("Section 2: Technical Committees"): "Committee officers shall not serve more than four consecutive years in the same office." The newest committee that I helped to form was the Standing Committee on Journal Relations. The purpose of the Journal Relations Committee is to establish a coordinated effort for finding ways and using best practices for further improvements in the impact of the DED journals. Beginning this last spring, the DED executives decided to meet twice a year for the executive committee and once a year for the general committee. The spring meeting is to be in the form of a teleconference meeting. The other executive committee meeting and general committee meeting are to be held during IDETC with members physically present. We had our first teleconference meeting on March 9, 2007. In that meeting, among others, the DED executive committee approved a matching program that was to improve the status of the TC's award accounts while ensuring that DED's custodial account maintained sufficient balance to cover potential losses from future IDETCs.

The current DED Chair, Dr. Judy Vance, has asked me to provide my inputs regarding some proposed revisions in the Constitution and Bylaws (C&B) of the division. The C&B was last revised on March 19, 2006. Briefly some of the proposed revisions are:

1. The following statements will have to be updated in "Article IV. Activities":
 - "The Division shall co-sponsor a National Design Engineering Conference (NDEC) to take place concurrently with and in the same city as the National Manufacturing Week shows in the spring of each year."
 - "The Division shall facilitate the publication of archival-quality papers in the field of design engineering in two journals of the Society: the *Journal of Mechanical Design* and the *Journal of Vibration and Acoustics*."
 - "The Executive and General Committees of the Division shall meet at least twice per year. One meeting shall be held at the National Design Engineering Conference."
2. Technical Committee listed under the Section 2 (Article II) of the Bylaws should be updated. Also, item b) under "Technical Committee Membership" should be updated. There are a number of other necessary changes (see Section 4 of Article II of Bylaws): For example, the statement: "The Advisory Committee shall meet at least once a year in conjunction with one of the meetings of the Division" should be revised with: "If

necessary, the Advisory Committee...” Likewise in Section 5 (Article II of Bylaws): the statement for “Finance Committee” should be updated to reflect what is actually practiced in the operation of finances.

3. The statement for the committee reports (Article III, Section 4, parts 1, 2) needs to be updated as well.

4. The statement for Editors (Article VI, part 2) need to be streamlined: “If there is no consensus in the Executive Committee with respect to any of the candidates that are nominated by the current Editor, then the nomination process will become open and the Executive Committee will seek nominations from the Technical Committees and others in the DED community (including the current Editor). The voting will take place again and the candidate who receives a majority vote of the Executive Committee will be selected and his/her name will be forwarded by the Executive Committee to the ASME Publication Committee for approval.”

5. And, perhaps other changes necessary as well.

Finally, I am pleased that since July 1, 2007, Dr. Judy Vance is leading our division as Chair of DED for 2007-08. Best wishes to her!

Respectfully,

Shapour Azarm
Immediate Past Chair
Design Engineering Division

Headquarters Report 2007

K&C Reorganization – L&C Reports to K&C

| Leadership & Communities Personnel Assignments | | | | |
|--|---|--|--|--|
| Elio A. Manes, Director, Leadership & Communities (New York) | | | | |
| Personnel (Location) | Lee Hawkins (Garland, TX) | Vince Dilworth (San Ramon, CA) | Rich Ulvila (New York) | Tom Wendt (Racine, WI) |
| Role | Technical/Global | Technical/Global | Technical/Global | Leadership/Training |
| <u>Groups</u> Divisions | <u>Basic Engineering</u> Applied Mechanics Bioengineering Fluids Engineering Heat Transfer Materials Tribology <u>Manufacturing</u> Manufacturing Materials Handling Plant Engineering & Maintenance Process Industries Textile Engineering | <u>Energy</u> Advanced Energy Systems Internal Combustion Engine Nuclear Engineering Power Solar Energy <u>Pressure Technology</u> Pressure Vessels & Piping NDE Engineering <u>Eng & Tech Management</u> Management Safety Engineering & Risk Analysis (SERAD) Technology & Society | <u>Systems & Design</u> Computers & Info in Eng Design Engineering Dynamic Systems & Control Elect & Photonic Packaging Fluid Power Systems Info Storage & Processing Systems (ISPS) Microelectromech (MEMS) <u>Environment & Transportation</u> Aerospace Environmental Engineering Noise Control & Acoustics Rail Transportation Solid Waste Processing | Student Leadership Seminars (SLS) Student Professional Development Conferences (SPDC) Leadership Training Conference (LTC) |
| Districts | E – Southwest F – Southeast I – Latin America | D – Pacific G – Asia | A – Northeast B – North Central | C – Midwest J – Middle East H – Europe |



June 2007 K&C Communique Articles – Staff Support Provided By Richard Ulvila

Hewlett-Packard Funds Heat Transfer Division Paper Contest

For the second year in a row, Hewlett-Packard has funded an award for Heat Transfer Best Papers to be presented at IMECE 2007 in Seattle. The award recognizes achievement by an ASME graduate student with prizes going to the 1st and 2nd place presenters. The Heat Transfer Division is providing the structure and management for this award from their K-21 Education Technical Committee, Chaired by Ann Anderson, Ph.D. This contest was initiated in 2006 and was directed by an ad hoc committee that was assembled from The Fluids Engineering Division and The Heat Transfer Division. The Chair was Kendra Sharp from the Fluids Engineering Division. Special note is needed to recognize Monem H. Beitelmal, Enterprise Software and Systems Laboratory, HP Laboratories Palo Alto, CA. Monem conceived of this award and was instrumental in convincing HP to offer the award again this year.

The following are the description and requirements for this year's awards which are published on The [IMECE 2007 Website](#):

Hewlett-Packard is sponsoring a Best Paper Award for papers focusing on topics in heat transfer, fluids engineering, and thermal systems (with specific interest in topics related to nano/micro technology, energy, sustainability, and multiphase heat transfer). The first author on the paper must be a graduate student. Two awards will be given at the ASME IMECE 2007 conference, including a first prize award of \$3000 and a second prize award of \$2000. The generous funding level for these awards is intended to assist with IMECE travel expenses for the winning author.

Technology & Society Division Chair Addresses Students

In a special session at the Student Professional Development Conference (SPDC), held at Purdue University on March 30, Richard Ciocci, T&S Division Chair, had the opportunity to address the student delegates and provide background on the mission and purpose of ASME's technical divisions. This session was the result of extensive collaboration between Chair Ciocci, Ward O. Baun, Safety Engineering & Risk Analysis Division (SERAD) Chair and Kambiz Farhang, District C Leader. Chair Ciocci used background materials that were the basis for the division posters at the Leadership Training Conference as the source for the presentation. He also added in other relevant information that he thought the students would find of interest. Chair Ciocci did discover that the students who attended knew little of the activities of a division and the relationship between sections and divisions. From that perspective, the presentation as an instructional tool was worth doing. Chair Ciocci said, "Including such a session in a student conference is a good idea. The students can learn more about ASME from such a session . . . The students also did seem to appreciate that I was the division Chair. It likely gave the session, the presentation, and my words a little more credibility with them." Since this was the first time this had been attempted, the organizers did come away with 'lessons learned.' Having divisions at student section events is a good idea, but the sessions need to have a better time slot to maximize attendance and better descriptive publicity for marketing the event. Some students knew that this had to do with ASME, but no one knew what to expect beyond that. Chair Ciocci felt for a first attempt, it was a good effort and if asked to be involved again, he would do his best to oblige.

Report prepared by Richard Ulvila

2007 ASME International Design Engineering Technical Conferences and Computers in Engineering Conference

Rio All-Suite Hotel & Casino, Las Vegas, NV, September 4-7, 2007

Report to DED Executive Committee

Key websites:

<http://www.asmeconferences.org/IDETC07/>

<http://www.asmeconferences.org/IDETC07/ChairsMessage.cfm>

<http://www.asmeconferences.org/IDETC07/Keynote-NSF.cfm>

The 2007 IDETC/CIE consists of record-breaking **thirteen conferences**. Twelve conferences are organized by various technical committees in the ASME Design Engineering Division and the Computers and Information in Engineering Division. One conference is corporately organized with IEEE. These thirteen technical conferences are:

- 21st Biennial Conference on Mechanical Vibration and Noise (VIB)
- 27th Computers and Information in Engineering Conference (CIE)
- 2007 ASME/IEEE International Conference on Mechatronic and Embedded Systems and Applications (MESA07)
- 6th International Conference on Multibody Systems, Nonlinear Dynamics, and Control (MSNDC)
- 33rd Design Automation Conference (DAC)
- 10th ASME International Power Transmission and Gearing Conference (PTG)
- 19th Reliability, Stress Analysis, and Failure Prevention Conference (RSAFP)
- 31st Mechanisms and Robotics Conference (MECH)
- 1st International Conference on Micro- and Nanosystems (MNS)
- 4th Symposium on International Design and Design Education (DEC)
- 19th International Conference on Design Theory and Methodology (DTM)
- 12th Design for Manufacturing and the Life Cycle Conference (DFMLC)
- 9th International Conference on Advanced Vehicle and Tire Technologies (AVTT)

The 2007 IDETC/CIE initially received more than **1,700** abstracts (by February 20th) and accepted **1,439 abstracts** among the thirteen conferences. The total number of draft papers received was 1,409 and only **1,223** made the final technical program. There are **12 specific conference keynote lectures** and **10 tutorials/workshops** sponsored by various technical committees and conferences. In addition, a general conference welcome keynote lecture entitled “**Shaking the Money Tree - Funding at NSF**” reported by three NSF Program Directors (Dr. **Suhada Jayasuriya** - Control Systems, Dr. **Eduardo Misawa** - Dynamical Systems, and Dr. **Judy M. Vance** - Engineering Design of the NSF’s Civil, Mechanical and Manufacturing Innovation Division) is scheduled at 7:45 AM Wednesday morning. Accordingly, the Chairs proudly present a best-ever IDETC/CIE technical program to the design engineering community in Las Vegas. Note that a successful program depends on many

dedicated conference chairs, program chairs, symposium organizers, authors and reviewers. The Chairs would like to express their sincerest appreciation to these people who make this landmark IDETC/CIE07 a reality.

In addition to the excellent technical program, IDETC/CIE07 will offer **two receptions** respectively on Tuesday (9/4) and Wednesday (9/5) nights and division/conference/committee award dinners on Thursday (9/6) evening. Two engineering deans: Dr. **Tom Lester**, University of Kentucky (UK), and Dr. **Eric Sandgren**, University of Nevada, Las Vegas (UNLV), will welcome all old and new friends and especially all participating students at the Deans' Reception on UNLV campus. The IDETC/CIE will host the second reception at Rio and award dinners at **Caesars Palace** (please refer to the final program or web information for details).

A select number of new innovations and unique services (different from past practices) of current IDETC/CIE are highlighted here:

- The Conference will have a "Technical Program Opening Reception" on Wednesday morning with serving breakfast to ALL conference attendees. This will provide a great start and networking opportunity for the participants.
- The Technical Program Opening will be followed by a unique "General Session Keynote Speech" by NSF three Program Directors as detailed above. This is a great technical opening for the conference, and both general audience and students will greatly benefit.
- The Conference will offer 6 separate "Dinners Banquets" for all the thirteen conferences instead of the traditional luncheons.
- The Conference has hired 9 graduate students as "Student Volunteers" to help with a variety of tasks and activities during the Conference. They will be educated about their tasks and will be wearing a special t-shirt to be recognizable to all conference attendees. This is in line with ASME goal in involving more and more students in its conferences.

Again, the IDETC/CIE General and Program Chairs (H.S. Tzou and Nader Jalili) would like to express their sincerest thanks to all conference and symposium organizers, technical committee chairs, authors, reviewers, student participants, ASME staffs (especially **Erin Dolan and Christina Perakis**), as well as various advisory and international committee members. Without these leaders, advisors, promoters, participants and facilitators, this record-setting IDETC/CIE is not possible. Las Vegas is an exciting city to visit. Please come to enjoy not only the excellent technical program, but also the dynamic city. See you at the IDETC/CIE07, September 4-7, 2007.

Horn-Sen (H.S.) Tzou, General Conference Chair
University of Kentucky, Lexington, KY

Nader Jalili, Technical Program Chair
Clemson University, Clemson, SC



International Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering Conference (CIE)

New York City, August 3-6 2008

The 2008 ASME International Design Engineering Technical Conferences (IDETC) and Computers and Information in Engineering Conference (CIE) will take place during August 3-6, 2008 at the [New York Marriott at Brooklyn Bridge](#), in New York City. The conference includes the following:

34th Design Automation Conference (DAC)

Conference Chair: Frank Liou, University of Missouri-Rolla;
Program Chair: Kazuhiro Saitou, University of Michigan

32nd Annual Mechanisms and Robotics Conference (MR)

Conference Chair: Qiaode Jeffrey Ge, Stony Brook University;
Program Chair: Pierre Laroche, Florida Institute of Technology

28th Computers and Information in Engineering Conference (CIE)

Conference Chair: Ravi Rangan, Centric Software Inc.;
Program Chair: Frederick Proctor, National Institute of Standards and Technology

20th International Conference on Design Theory and Methodology (DTM)

Conference Chair: Li Shu, University of Toronto;
Program Chair: Bob Paasch, Oregon State University

13th Design for Manufacturing and the Lifecycle Conference (DFMLC)

Conference Chair: Peter Sandborn, University of Maryland, College Park

5th Symposium on International Design and Design Education (DEC)

2nd International Conference on Micro- and Nanosystems (MNS)

In addition to technical papers and presentations, the conference will include plenary sessions, keynote lectures, and tutorials. Industry participation is particularly encouraged.

New York Marriott at the Brooklyn Bridge is just across the river from Manhattan. Two subway stations by the hotel provide easy access to all parts of New York City. There are walking pathways that will take you from the Brooklyn side of the bridge to the Manhattan side, including Canal Street and City Hall.

All submissions must be made through the conference website: <http://www.asmeconferences.org/IDETC08>.

Important deadlines include

| | | | |
|--------------------------|-----------|--------------------|-----------|
| Draft Paper Due: | 1/21/2008 | Review Completion: | 3/3/2008 |
| Acceptance Notification: | 3/24/2008 | Final Paper Due: | 4/28/2008 |

We look forward to welcoming you to New York in August, 2008.

Souran Manoochehri
General Conference Co-Chair
Stevens Institute of Technology
smanooch@stevens.edu

Jahangir Rastegar
General Conference Co-Chair
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jahangir.rastegar@stonybrook.edu

Qiaode Jeffrey Ge
Technical Program Co-Chair
Stony Brook University
Qiaode.Ge@stonybrook.edu

Horea Ilies
Technical Program Co-Chair
University of Connecticut
ilies@engr.uconn.edu

IDETC 2009 Status Report August 21, 2007

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: flowergt@auburn.edu | 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, Venue, Dates and Hotel have been chosen and contract signed

- Conference City: San Diego, CA.
- Conference Dates: August 30-September 2, 2009
- Conference Venue: San Diego Convention Center (www.sdccc.org)
 - We have a total of 36 meeting rooms each day from Monday, August 31, 2009 through Wednesday, September 2, 2009
 - Additionally we have 8 meetings rooms for tutorials on Sunday, August 30, 2009
 - *Note, all of the rooms hold at least 120 people (theater style)
 - 1 authors breakfast each day (at convention center)
 - 6 lunches (the average size of a lunch is 300 ppl, so some of the rooms will need to be combined)
 - Coffee Breaks
 - Exhibits
 - Committee Meetings
 - Speaker Ready Room
 - Food & Beverage Minimum: \$100K (at the convention center)
- Conference Hotel: Omni Hotel – San Diego
(<http://www.omnihotels.com/FindAHotel/SanDiego.aspx>)
 - Conference room rate: \$189 (single/double) \
 - Room Nights Blocked: 1300 room nights
 - Required Pickup: 80% (1040 room nights)

3. Conference Reception

The reception venue is not yet set. The principal possibilities being considered are:

- i) On board the USS Midway Aircraft Carrier (<1 mile away) (but cannot be the evening of Tuesday September 1, 2009) (thus Monday or Wednesday are still options for the Midway).
- ii) Reception at Petco Park (where the Padres play). This Professional Baseball stadium is next to the conference hotel and is easily accessible by pedestrian “skywalk” directly connecting the hotel to the sports facility. We will not be able to confirm this possibility until the 2009 baseball schedule is set and we would only be able to have the reception there if the Padres are NOT in town.
- iii) Reception at the San Diego convention Center

Other options which have not yet been explored is something on Coronado peninsula across the San Diego Bay from the Conference center.

We will further discuss/review our options after the IDETC2007 event is completed.

4. Conference Webpage

IDETC 2009 website has been produced (<http://www.rpi.edu/~anderk5/IDETC2009/>) and will continue to be extended as more information becomes available. Currently this website provides a IDETC2009 overview, listing of contributing conferences and associated conference specific *Calls For Paper/Announcements*, a general *IDETC2009 Call For Papers*, venue and hotel information, as well as local attraction information.

5. Conference Announcement and Call For Papers

An initial conference announcement/call for papers has been produced and will be in the materials provided to IDETC2007 attendees in Las Vegas. This call for papers/announcement is downloadable from the above described conference website, and will be e-mailed all to IDETC 2007 and IDETC 2008 attendees as those lists come available.

Report Prepared by
Kurt S. Anderson and George Flowers



IDETC / CIE 2009

2009 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference

San Diego, California
August 30 – September 2, 2009

Co-Chairs: George Flowers (flowegt@auburn.edu) & Kurt Anderson (anderk5@rpi.edu)

Affiliated Conferences, Conference Chairs and/or Program Chairs

1. **22nd Biennial Conference on Mechanical Vibration and Noise (VIB)** (TC of Vibration and Sound) – Conference Chair: George Flowers (flowegt@auburn.edu); Program Chair: Dane Quinn (quinn@uakron.edu)
2. **29th Computers and Information in Engineering Conference (CIE)** (Computers in Engineering Division) – Conference Chair: Fred Procter (frederick.proctor@nist.gov); Program Chair: Shuichi Fukuda (shufukuda@cdr.stanford.edu)
3. **2009 ASME/IEEE International Conference on Mechatronic and Embedded Systems and Applications (MESA07)**
4. **7th International Conference on Multibody Systems, Nonlinear Dynamics, and Control (MSNDC)** (Multibody Systems and Nonlinear Dynamics Committee) – Conference Chair: Kurt Anderson (anderk5@rpi.edu); Program Chair: Olivier Bauchau (Olivier.Bauchau@ae.gatech.edu)
5. **35th Design Automation Conference (DAC)** (Design Automation Committee) – Conference Chair: Kazuhiro Saitou (kazu@umich.edu); Program Chair: Zissimos Mourelatos (mourelat@oakland.edu)
6. **ASME Power Transmission and Gearing Conference (PTG)** (Power Transmission and Gearing Committee)
7. **20th Reliability, Stress Analysis, and Failure Prevention Conference (RSAFP)** (Reliability, Stress Analysis, and Failure Prevention Committee) – Conference Chair: Erol Sancaktar (erol@uakron.edu)
8. **33rd Mechanisms and Robotics Conference (MECH)** (Mechanisms and Robotics Committee) – Conference Chair: Pierre Larochelle (pierrel@fit.edu), Program Chair: Andrew Murray (murray@udayton.edu)
9. **3rd International Conference on Micro- and Nanosystems (MNS)** (Micro and Nano Systems Committee)
10. **6th Symposium on International Design and Design Education (DEC)** (Design Education Committee)
11. **21st International Conference on Design Theory and Methodology (DTM)** (Design Theory and Methodology Committee) – Conference Chair: Robert Paasch (paasch@engr.orst.edu)
12. **14th Design for Manufacturing and the Life Cycle Conference (DFMLC)** (Design for Manufacturing Committee)
13. **10th International Conference on Advanced Vehicle and Tire Technologies (AVTT)** – Conference Chair: Corina Sandu (csandu@vt.edu); Program Chair: Mohammad Elahinia (mohammad.elahinia@utoledo.edu)

IDETC 2010 Status Report **August 27, 2007**

The planning and organization of the IDETC 2010 in Montreal, Canada, is in the very early stages. This beautiful city was the location for the 2002 IDETC conference, a tremendous success. Montreal is easily accessible by air for all North Americans. The friendly downtown is filled with restaurants, museums, and the typical array of big city amusements. McGill, ETS, and the University of Montréal are strong local Universities, active conference participants, and willing to coordinate receptions and tours.

Conference Hotel: There are a number of choices for hotels in Montreal with conference accommodations: Delta, Marriott, Sheraton FourPoints, and Queen Elizabeth to name several. All these hotels are centrally located in the downtown area with convenient access to the metro and airport. There are no additional venue or tour arrangements to report.

Meeting with ASME staff: Larochelle and Murray, the Co-Chairs of the conference, will be meeting with Erin Dolan of ASME during the '07 IDETC. The meeting includes discussions of conference location, finances, and the conference web site/tool

An early commitment: Prof. Jorge Angeles of McGill University and his rather large and enthusiastic group of colleagues and students have agreed to facilitate the local arrangements that will ensure the conference's success.

Border Issues: US citizens visiting Canada will be required to have a passport as of September 30, 2007. As the Conference is three years out, our belief is that this restriction will not pose issues for either our domestic or international attendees.

Location Issues: Concerns were raised about Montreal as a venue for the 2010 Conference. Larochelle and Murray remain committed to bringing the conference to this historic city. In the event that the choice of Montreal will not be supported by the Design Engineering Division, other potential venues under consideration include Albuquerque, Saint Louis, and Indianapolis.

Report Prepared by:

Pierre Larochelle
General Conference Chair in 2010
Florida Institute of Technology

Andrew Murray
General Program Chair in 2010
University of Dayton

Technical Committees & IMECE Report

Technical Committees

Reports:

| | | |
|--|---------------|------------------|
| (a) Design Automation Committee | H.C. Gea | (written report) |
| (b) Design Education | P. Doepker | (written report) |
| (c) Design for Manufacturing Committee | J.W. Herrmann | (written report) |
| (d) Design Theory and Methodology | M.J. Scott | (written report) |
| (e) Fastening and Joining | E.V. Iarve | (written report) |
| (f) Mechanisms and Robotics | V. Kumar | (written report) |
| (g) Micro and Nano Systems | L. Saggere | (written report) |
| (h) Multibody Systems and Nonlinear Dynamics | K. Anderson | (written report) |
| (i) Power Transmission and Gearing | A. Kahraman | (written report) |
| (j) Reliability, Stress Analysis, and Failure Prevention | E. Sancaktar | (written report) |
| (k) Vehicle Design | M. El-Gindy | (written report) |
| (l) Vibration and Sound | G. Flowers | (written report) |

Issues & Action Items:

1. Changes in the leadership of the Technical Committees: Jeffrey W. Hermann replaced S.K. Gupta as the chair of the Design for Manufacturing Committee, Michael J. Scott replaced Janet Allen as the chair of the Design Theory and Methodology Committee, Endel V. Iarve replaced P. Raju Mantena as the chair of the Fastening and Joint Committee, Vijay Kumar replaced Sunil Agrawal as the chair of the Mechanisms and Robotics Committee, and Kurt Anderson replaced Subhash Sinha as the chair of the Multibody System and Nonlinear Dynamics Committee. DAC will also have a new chair this year who will replace H.C. Gea. The new Technical Committee Chair Roster is attached.
2. PTG proposed to have a new award with candidate name "The Darle Dudley Award". The proposal was approved starting with \$5K from PTG matched with \$5K from DED custodial account.
3. The Mechanisms and Robotics Best Paper Award was proposed (starting with \$5K from MR matched with \$5K from DED custodial account).
4. The Micro and Nano Systems Committee Award was proposed (starting with \$1K from MNS matched with \$1K from DED custodial account).
5. Vehicle Dynamics is having its first conference at the 2007 IDETC's.
6. MR is considering establishing a new journal on Mechanisms and Robotics.

IMECE

There will be significant changes in the structure of the IMECE. The conference will be more research focused and will have significantly smaller number of sessions. The number of sessions will be reduced from 625 to approximately 240 sessions within a period of three years.

1. The 2007 IMECE will be held in Seattle during the period of November 12 – 15, 2007.
2. No sessions will be allocated for divisions. Sessions will be allocated for tracks which are co-chaired by division representatives.
3. 40% of the revenue goes for ASME and 60% for the divisions. The distribution of the revenue for divisions will be based on the number of sessions. Sessions which will be attended by less than 10 people will not be counted in the revenue distribution. The sessions of a track will be equally distributed among the divisions participating in this track.
4. The DED technical committees were contacted in November 2006 to nominate DED Track Representatives. A list of DED Track Representatives is provided.
5. The number of abstracts submitted to the 2007 IMECE is 2808 abstracts. Some tracks were merged together. The final number of tracks is 17. The number of sessions is 460 with 2200 presentations (1655 manuscript submissions, approximately 1500 papers will be accepted.)
6. In December 5, 2006; Said Jahanmir presented a revised plan for restructuring the congress. This revised plan is attached to this report. The Technical Communities Operating Board (TCOB) approved the new congress structure early this year.

Technical Committee Chair Roster

Design Automation Committee

Hae Chang Gea

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Design Education

Prof. Philip E. Doepker, P.E.

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Fax: (937) 229-4922
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Design for Manufacturing

Jeffrey W. Herrmann, Ph.D. (07/07 - 06/08)

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Design Theory and Methodology

Michael J. Scott, Ph.D. (07/07 - 06/08)

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Fastening and Joining

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Mechanisms and Robotics

Vijay Kumar

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Micro & Nano Systems (MNS)

Laxman Saggere

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Multibody Systems and Nonlinear Dynamics

Kurt Anderson (07/07 - 06/08)

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Power Transmission and Gearing

Ahmet Kahraman, Ph.D. (09/05 - 08/07)

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Reliability, Stress Analysis & Failure Prevention

Erol Sancaktar, Ph.D.

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Vehicle Design

Moustafa El-Gindy, Ph.D.

Pennsylvania Transportation Institute
The Pennsylvania State University
201 Research Office Building
University Park, PA 16802

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FAX: (814)865-3039
Email: mxe15@psu.edu

Vibration and Sound

George T. Flowers (07/06 - 06/08)

Department of Mechanical Engineering
Auburn University
Auburn, AL 36849-5341
Phone: (334) 844-3330
FAX: (334) 844-3307
Email: gflowers@eng.auburn.edu

Design Engineering Division Track Representatives

| Track | Proposed DED Track Chair of Co-Chair | DED Technical Committee | E-Mail Address |
|---|---|--|--------------------------|
| Mechanics of solids and Structures | Erol Sancaktar | Reliability, Stress Analysis, and Failure Prevention | erol@uakron.edu |
| Mechanical Systems and Control | Albert Luo | Sound and Vibration | aluo@siue.edu |
| Materials in Engineering Applications | Erol Sancaktar | Reliability, Stress Analysis, and Failure Prevention | erol@uakron.edu |
| Fluid Dynamics, Heat Transfer and Thermal Systems | | | |
| Nanotechnology and Microtechnology | Laxman Saggere | Micro and Nano Systems | saggere@uic.edu |
| Energy Technologies | | | |
| Transportation Systems | Khaled Zaazaa | Multibody Systems and Nonlinear Dynamics | Zaazaa.Khaled@ensco.com |
| Design and Manufacturing | Endel Iarve | Fastening and Joining Committee | Endel.Iarve@WPAFB.AF.MIL |
| Emerging Technologies | I. Y. (Steve) Shen | Sound and Vibration | ishen@u.washington.edu |
| Engineering Education | | | |
| Biomedical and Safety Systems | Xiaopeng Zhao | Multibody Systems and Nonlinear Dynamics | xzhao@duke.edu |
| Electronics and Photonics | Erol Sancaktar | Reliability, Stress Analysis, and Failure Prevention | erol@uakron.edu |
| Advances in Aerospace Technology | | | |
| New Developments in Software for Engineering Applications | | | |
| Engineering Management and Ethics | | | |
| Recent Advances in Engineering Research | | | |
| Early Career Development | | | |
| Engineering Entrepreneurship | | | |

Plans for Restructuring ASME Congress from IMECE to IERIC Version 3 (December 5, 2006)

Introduction

In order to make Congress more focused on its strength (i.e., presentation of state of the art developments in engineering research) BOG commissioned a Task Force chaired by Warren DeVeries to critically evaluate and develop a set of recommendations for revising the Congress. The Task Force report has been adopted by the BOG. It recommends splitting the present Congress into three separate venues, International Engineering Research and Innovation Congress (IERIC), General Annual Meeting (GAM), and a series of Industry Focused Symposia (IFS). The present Congress will be replaced by IERIC and will be held at the same time frame, i.e., second week of November. The Summer Annual Meeting will be replaced with the GAM. While the focus of new Congress will be on Research and Innovation, the GAM will focus on ASME business, professional development and other general engineering issues. Three new Task Forces have been commissioned by the ASME President to develop the strategic and business plans for these three events. The transition to the new format will probably take three to four years. The new Congress will be much smaller than the present Congress. The number of sessions will be reduced from 600 to 240 and the Congress will run from Monday through mid day on Thursday.

It is hoped that the new format for the smaller and more focused Congress will result in reduced cost (i.e., lower registration fees), improved quality and increased revenues. Furthermore, the structural changes in the new Congress should provide direct opportunities for Divisions to control and oversee the technical program. Starting with these goals in mind and considering the main mission that is to “organize high-quality forums for exchange of recent results from research and innovations and for networking,” the following operating procedures are recommended:

Congress Steering Committee

The International Engineering Research and Innovation Congress (IERIC), or the Congress will be directed and managed by the Congress Steering Committee (CSC). The CSC shall consist of a Chair and nine members appointed jointly by the Vice President of Technical Communities (TC) and Vice President of Programs and Activities (P&A). Each member, except the Chair, shall be appointed for a maximum term of three years. Membership on the CSC is limited to one person per Division participating at Congress. Each year participating Divisions that are not represented on CSC shall nominate a new member to fill the upcoming vacancies. The CSC shall select three new members and transmit the names to the VPs of TC and P&A. The VPs shall determine if some Divisions due to their continued major involvement in Congress shall have permanent seats on the CSC. The Chair of CSC shall be nominated by the CSC and appointed jointly by the VPs of TC and P&A for a two-year term. The Chair shall have served a full 3-year term on CSC. The CSC may include non-voting members, as advisors, selected by the VPs of TC and P&A.

ASME staff shall serve as non-voting members of the CSC and one staff shall serve as the recording Secretary responsible for drafting the meeting minutes and making arrangements for the CSC meetings.

The CSC shall have the responsibility for all aspects of Congress, including site selection, budget, technical program, and all other social and technical functions. The CSC shall appoint a Technical Program Chair (TPC), who shall report to CSC, for planning and execution of the technical program. The TPC will be assisted by Track Chairs and Vice Chairs, as outlined below. The TPC shall chair the

Congress Technical Program Committee composed of Track Chairs, as members, and past TPC's, as advisors.

Multidisciplinary Symposia

In order to encourage collaboration among Divisions and develop a multidisciplinary program, the technical program of Congress shall consist of several multidisciplinary Tracks. The Tracks may consist of multidisciplinary symposia and/or sessions. Each year in July the TPC with input from CSC shall develop a preliminary list of Track topics for the next year's Congress. This list shall be communicated to Division Chairs and Division Program Representatives asking for input and suggestions for symposium/session topics for each Track. Divisions will be asked to also provide suggestions for new multidisciplinary Track topics, as well as suggestions for Track Chairs and Vice Chairs, and Symposium/Session Organizers. The final list of Track topics and Track Chairs shall be developed by the TPC with approval of CSC. Each Track shall include at least two Divisions, and the Chairs and Vice Chairs shall be selected from different Divisions.

The TPC shall allocate sessions for Tracks based on the number of abstracts submitted to each Track. Technical sessions may include presentations of peer-reviewed papers or extended abstracts, presentations of recent innovations, poster presentations, and panel discussions. Each potential presenter shall submit an abstract for review. The Track Chairs with input from Symposium/Session Organizers and with approval of TPC shall decide the presentation types for their Tracks, Symposia and Sessions. All reviewed and accepted manuscripts shall be published by ASME using an appropriate media such as DVD.

All authors and presenters shall register and pay the registration fees in advance of the Congress prior to a deadline set by the CSC with input from ASME staff. The final technical program shall be reviewed by the TPC and approved by the CSC.

Congress Schedule

Congress shall start on Monday morning and end on Thursday noon. No technical presentations are to be scheduled on the preceding Sunday or on the evenings, unless approved by the CSC. The total number of parallel sessions for Congress shall be decided by the CSC. It is desired to limit the number of parallel sessions to 15. The present Congress schedule with respect to session length (90 minutes with a maximum of 4 presentations in each session) and start time 7:30 am should be kept until changed by the CSC. Each Track shall have at least one invited Plenary presentation (30-45 minutes) providing a comprehensive overview of the technical topic as well as research needs and future directions. Plenary speakers shall be selected by the Track Co-Chairs. The Plenary presentations should be staggered through the program to avoid scheduling conflicts. The Plenary speakers shall be provided with registration fee waivers, either included in the Congress budget, provided by the Divisions, or drawn from Congress set aside account.

Congress may include a small table-top exhibit if approved by the CSC. ASME staff shall be responsible for marketing and coordinating the exhibits.

Congress Venue and Budget

Congress shall be held during the second week of November in a location having the required space for the parallel technical sessions, committee meetings, and social functions. Every attempt shall be made to find a suitable location with affordable costs (registration fee, air fare, and lodging cost). The final decision on site location rests with the CSC. The Congress budget shall be prepared by ASME

staff with review and approval of the CSC no later than January 15 of the year of the Congress. All negotiations of hotel and other facilities will be carried out by the ASME staff in consultation with the CSC.

A list that outlines the contribution of each Division and other ASME Unit to the organization of sessions shall be developed for each Congress. The net positive revenue generated from Congress shall be distributed to the participating Divisions and Units based on session attendance and total number of sessions programmed. Any residue revenues not distributed to Divisions and Units (e.g., associated with sessions less than 10 attendees) shall be deposited in a Congress account. These monies shall be used to improve the quality of Congress by providing registration waivers, travel assistance, etc. Decisions regarding disposition of monies from this account shall be made by the CSC Chair and TPC.

Registration fee waivers as well as travel reimbursements to Congress shall be provided for the CSC Chair and TPC based on ASME Travel Reimbursement Policy. These funds may be included in the Congress Budget or drawn from the Congress account.

Students shall be provided a reduced registration fee as set by the ASME Policy.

Transition from IMECE to IERIC

As directed by the BOG and the ASME President the transition from IMECE to IERIC shall begin in 2007 and completed in three to four years. The following transition plan should ensure a smooth transition:

As directed by the BOG, various society-wide business meetings and other functions such as professional development sessions shall be reviewed for movement to other venues such as new ASME General Annual Meeting. The number of technical sessions in 2007 Congress shall be reduced to 460. The Keynote presentation, the Exhibit program, and the Tours shall be closely examined and continued if found warranted. A transitional Congress Steering Committee shall be formed from Divisions most active in recent Congress events. This Committee shall serve as advisors to the Congress Planning Committee and the Congress Task Force.

The new structure for the Congress Technical Program Committee shall be initiated starting with the plans for the 2008 Congress on or about June 2007. The Congress Steering Committee shall replace the current Congress Planning Committee on or about June 2007. The total number of sessions for 2008 Congress shall be reduced to 360, and more emphasis shall be placed on poster presentations. Based on recommendations from the Congress Task Force, most technical sessions that are not focused on Research and Innovation shall be moved out of Congress in 2008.

The transition shall be completed with the 2009 or 2010 Congress. The number of sessions shall be reduced if necessary and all presentations not related to Research and Innovation shall be moved out of Congress to appropriate events such as GAM, IFS, Division conferences or others.

Journal Relations Committee Report ASME Design Engineering Division Fall 2007

The objective of the DED Journal Relations Committee (JRC) is to facilitate increased impact of the journals affiliated with the Design Engineering Division. The committee will share best practices, decide appropriate metrics, and determine and implement strategies that will influence the journals' impact.

1. Overview of Committee's Objective and Plans

The committee is considering the following questions:

- What are appropriate metrics to help measure each journal's progress? (Examples of possible metrics include Impact Factor, number of subscribers, indexing services in which the journals are indexed, etc.)
- What can be done by the DED committees and editors to increase the impact of DED journals?
- What can be suggested for ASME to do to help increase the impact of DED journals?

In relation to these broad questions, the following issues are being considered:

- What education can be provided to authors, associate editors, reviewers, etc., that would increase their awareness and enlist their help in increasing the journals' impact.
- What can be shared with other committee members about what has been done that has been successful in increasing the impact of DED journals?
- Of all the things that might be done, which would have the greatest influence on increased impact? What strategies might be most efficient (i.e. have the greatest impact for the lowest resource input)?

Significant progress has been seen in some areas, as described in individual journal reports.

The questions considered by the previous committee are still relevant and are listed in the table below.

| Evolution | Impact/Peers |
|--|---|
| <ul style="list-style-type: none"> • Does journal coverage evolve with new developments in the field? • Are multi- (and cross-) disciplinary topics covered? • Do the papers cover areas in the field in a balanced way? • How is the journal utilizing advanced and new technologies in enhancing handling of papers? • Is there any plan for special (or focused) issues on emerging topics? | <ul style="list-style-type: none"> • Has some of the best research in the sub-fields covered by the journal in the last 5 years published in the journal? • How is the journal compared to other journals in the field? • What are the peer journals in the field? • What are the impact related numbers and how do they compare among the peer journals as well as all journals within Mechanical Engineering? |
| Review/Communication | Editorial/Nomination |
| <ul style="list-style-type: none"> • What is the time duration for review (both initial and follow-up rounds)? • What is the time duration for publication from acceptance? • What are the data on paper tracking, lost papers, and | <ul style="list-style-type: none"> • What is the stature of the people on the editorial board of the journal? • Should the next TE nominated by the current TE (as in the past) or should the nomination be opened for others (e.g., TC's) to participate as well? |

| | |
|--|--|
| <p>delayed reviews?</p> <ul style="list-style-type: none"> • Are the page numbers allocated to the journal supported by the subscription numbers? • Are the journal's focus areas clearly communicated to the technical community? | |
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2. Proposal for a new Journal

Discussions have been ongoing during the past year regarding the formation of a new journal to be sponsored by the Design Engineering Division, entitled, *ASME Journal of Mechanisms, Machines and Mechatronic Systems*.

A formal proposal for the journal has been put forth by Michael McCarthy, current editor of the *Journal of Mechanical Design*, and Vijay Kumar, and is currently being discussed among technical committees and the Executive Committee.

The proposed mission for the journal is to be an archival publication that documents fundamental research on the geometry, kinematics, dynamics, design, analysis, manufacture, and control of mechanisms, machines and mechatronic systems with a view to advancing the state-of-the-art in theory as well as practice and to encourage innovation in the design of mechanical systems.

The journal would primarily serve the research communities associated with the Mechanisms and Robotics, Power Transmission and Gearing, and Micro and Nano Systems technical committees of the DED. The rationale for its formation is to relieve the current publication pressure of *Journal of Mechanical Design* that arises from its high submission rate compared to available pages, and to enable it to expand to a broader range of topics in system design, optimization, decision theory and robust and risk-based design. The new journal would then provide an ASME-sponsored outlet for the topics mentioned above as well as unique integrative research that has no home among existing ASME journals.

*Report Submitted by William W. Clark
Chair of Journal Relations Committee*