



Welcome to the On-Line Edition of the **1998 ASME Design Engineering Division Newsletter**

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Please report problems or broken links in this newsletter to: trchase@me.umn.edu

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Thomas R. Chase / trchase@me.umn.edu / Last updated August 25, 1998

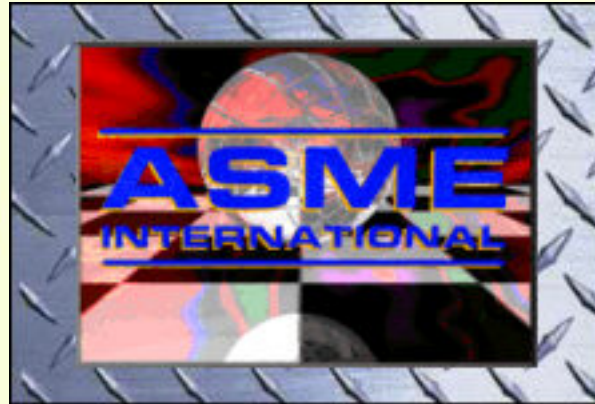


**1998 ASME
Design Engineering Technical
Conferences
and
Computers in Engineering Conference**

**Omni Hotel at CNN Center
Atlanta, Georgia**

September 13-16





Last Modified: 25-August-98

● Contents:

● News

● *Deadlines:*

- August 19 - [Omni Hotel](#) guaranteed room rates - after this time it is on an availability basis
- September 4 - Advance [Registration](#)

- [Register Now, Save Money, and Pay Later!](#)
- [Program and Session Information](#) **NEW**
- [Visit - The Woodruff School of Mechanical Engineering](#) **NEW**

- ***Registration and Travel***

- ***Register Now, Save Money, and Pay Later!*** (See on-line forms!)
 - [Online Registration at ASME](#) (not encrypted!)
 - ***Registration Form Downloads for FAX and Postal Mail:***
 - PDF file - [Reg.pdf \(10K\)](#)
 - Postscript file - [Reg.ps \(69K\)](#)
 - Zipped postscript file - [Reg.zip \(19K\)](#)
 - [Cooperating Societies](#) (Register at ASME Member Rates)
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- [Author's Kit](#)
 - [ASME Design Engineering Division Awards](#) (8K pdf file)
 - **Design Competitions**
 - [A Scientific Formalism for Product Realization for a Global Manufacturing Enterprise \(Undergraduate\)](#) (24K pdf file)
 - [Mechanisms Design Competition \(Undergraduate and Graduate Divisions\)](#)
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-



General Information:

- The 1998 ASME Design Engineering Technical Conferences and the Computers in Engineering Conference will be held in [Atlanta](#), Georgia at the [Omni Hotel at CNN Center](#) hosted by the Design Engineering Division of [ASME](#) and the [George W. Woodruff School of Mechanical Engineering](#) at the [Georgia Institute of Technology](#)
- The overall conference consists of several conferences sponsored by technical committees within the Design Engineering and Computers in Engineering Divisions of ASME. A list of conferences and associated conference chairs is provided below.
- See [Exhibitor Information](#) for details on exhibition arrangements.
- See the [Call for Papers](#) for detailed author information.

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Organizers:

- *Mechanisms Committee of [ASME](#)'s Design Engineering Division.*

● [George W. Woodruff School of Mechanical Engineering at the Georgia Institute of Technology](#)

● [General Conference Co-Chair:](#)

Professor Harvey Lipkin

George W. Woodruff School of Mechanical Engineering

Georgia Institute of Technology

Atlanta, GA 30332-0405

Voice: (404) 894-7410

Fax: (404) 894-8496

Email: harvey.lipkin@me.gatech.edu

● [General Conference Co-Chair:](#)

Professor Farrokh Mistree

George W. Woodruff School of Mechanical Engineering

Georgia Institute of Technology

Atlanta, GA 30332-0405

Voice: (404) 894-8412

Fax: (404) 894-9342

Email: farrokh.mistree@me.gatech.edu

● [Local Committee:](#)

[Janet Allen](#) – Exhibits

[Bert Bras](#) - Receptions

[Jim Brazell](#) - Transportation

[Jon Colton](#) - Cultural Events

[Harvey Lipkin](#) - DETC Co-Chair, Web Page

[Farrokh Mistree](#) - DETC Co-Chair, Education Award

[David Rosen](#) - Publicity and Tutorials

[Ward Winer](#) - Organizational Liaison

● [ASME Meeting Manager:](#)

Marisa Scalice
Meeting Manager
ASME International
New York, NY 10017-2392
(212) 705-7793
Email: scalicem@asme.org

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Technical Conferences:

● **25th Biennial Mechanisms Conference**

Prof. Lung-Wen Tsai
Department of Mechanical Engineering
University of Maryland College Park, MD 20742
Voice: (301) 405-6629
Fax: (301) 405-6707
Email: lwtsai@isr.umd.edu

Download the Mechanisms Paper Review Form:

[Text Format](#)

[PDF Format](#)

[Word 95/6.0 Format](#)

[Mechanisms Committee Homepage](#)

[Call for Papers](#)

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● **24th Design Automation Conference**

Professor Alan Parkinson
Department of Mechanical Engineering
Brigham Young University
Provo, UT 84602
Voice: (801)378-2625
Fax: (801)378-5037
Email: parkinson@byu.edu

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● **10th International Conference on Design Theory and Methodology**

Dr. Jami Shah
Department of Mechanical and Aerospace Engineering
Arizona State University
Tempe, AZ 85287-6106
Voice: (602)965-6145
Fax: (602)965-2412
Email: jami.shah@asu.edu

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● **3rd Design for Manufacturing Conference**

Dr. Jai Menon
IBM T.J. Watson Research Center
P.O. Box 704
Yorktown Heights, NY 10598
Voice: (914) 784-6942
Fax: (914) 784-7667

Email: menon@watson.ibm.com

Web: <http://www.research.ibm.com/people/m/menon/>

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● **6th Flexible Assembly Conference**

Prof. A. H. Soni

Director, Center for Advanced Manufacturing Systems

University of Cincinnati

Cincinnati, OH 45221-0072

Voice: (513) 556-2709

Fax: (513) 556-3390

Email: atmaram.soni@uc.edu

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● **1998 Power Transmission & Gearing Conference**

Dr. Neil Anderson

General Motors - Power Train Division

Advanced Power Transfer

Mail Code 481-000-178

Ecorse & Wiard Roads

Ypsilanti, MI 48198-6193

Voice: (313) 9481-7868

Fax: (313) 481-5065

Email: LNUSEWY1.KZK0KM@gmeds.com

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● **18th Computers In Engineering Conference**

Dr. Kos Ishii
Department of Mechanical Engineering
Stanford University Stanford, CA 94305 USA
Voice: (415) 725-1840
Fax: (415) 723-3521
Email: ishii@cdr.stanford.edu

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● **12th Engineering Information Management Symposium**

Dr. Oliver Tegel
Technical University Berlin
ME Department Sekr. H10 Strasse des 17. Juni 135
D-10623 Berlin, Germany
Voice: +49 30 314 24487
Fax: +49 30 314 26481
Email: tegel@prz.tu-berlin.de

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Author Information:

- Papers due: 30 January 1998
- Decision on papers sent to authors: 15 April 1998
- Final submission due: 15 May 1998

- For more information see the [Call for Papers](#).

● FTP Problems

- If you have experienced problems in FTPing your paper and still need to do so (others can ignore):
 - There is a new ftp address - <ftp://pinetec.com>
 - User ID - detc98
 - Password - mh2csm
 - After logging in you will be in the directory called detc
 - Download your paper as described in the author's kit below

For problems with this site contact detc@pinetec.com

● Author's Kit (3 ways to load!)

1. Download a zip file, extract to any directory, browse to INDEX.HTM
 - Download Author's Kit - [AuthorsKit1.zip \(361K\)](#)
 - Download Author's Kit without sample paper in pdf format - [AuthorsKit2.zip \(128K\)](#)
 - Download Paper Numbers - [PaperNumbers.zip \(35K\)](#)
2. [ASME Publications](#)
 - [Author's Kit](#)
 - [Paper Numbers](#)
3. Mirror at helix.gatech.edu
 - [Author's Kit](#)

[Paper Numbers](#)

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Exhibitor Information:

- [General Information](#)
- [Fact Sheet](#)
- [Reply Form](#)(Also as a [6K pdf file](#))


- For more information contact:

Dr. Janet Allen
School of Mechanical Engineering
Georgia Tech
Atlanta, GA 30332-0405
Voice: (404) 894-8168
Email: janet.allen@me.gatech.edu

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Accommodations and Travel:

- Accommodations are available at the conference hotel, [Omni Hotel at CNN Center](#), 100 CNN Center Atlanta, GA 30335.
- **Reservations:** 1-(800) THE-OMNI in US and Canada and (402) 334-6664 from other countries.
- Local information: (404) 659-0000 or fax (404) 525-5050.
- Through **August 19, 1998** conference rates are guaranteed as \$135 single, \$155 double occupancy, plus 13% state and local taxes.
- [Travel Arrangement and Special Airfares](#) 
American Express is ASME's official travel agent. For further information and reservations, call toll free 1-800-222-ENGR within the U.S. All other locations, call 212-629-1375. Ask for the ASME Coordinator, and identify yourself as a participant in the 1998 ASME Design Engineering Technical Conferences. If you prefer call the following airlines directly:

Delta Airlines 1-800-241-6760, refer to 107766A

American Airlines 1-800-433-1790, refer to S-9276
Any airline discounts are subject to change without notice.


● [Ground Transportation and Airport Information](#)

- The [Atlanta Hartsfield International Airport](#) is within 25 minutes of the conference hotel and [Georgia Tech](#) by [MARTA](#) subway.

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Conference Tours and Cultural Attractions:

- [Conference Tours - Sightseeing and Technical](#) 
- [Cultural Attractions and Entertainment in Atlanta](#)

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Cooperating Societies:

- *If you are a member of one of the “cooperating societies” you may register at the ASME member rate.*

- **List of Cooperating Societies:**

AIChE, AIME, ASCE, CAI-Argentina, IEAust-Australia, BSE-Bahrain, IE-Bangladesh, BAN-Belarus, BSMEE-Belgium, ABCM-Brazil, CSME-Canada, CMES-P.R. China, CSME-Taipei, ACIEM-Columbia, CMEA-Cyprus, CMES-Czech

Republic, IDA-Denmark, ESME-Egypt, GCM-France, ISF-France, GAES-Republic of Georgia, VDI-Germany, GhIE-Ghana, HAMEE-Greece, HKIE-Hon Kong, GTE-Hungary, IE-India, IE-Indonesia, IE-Ireland, SMEI-Israel, ASMECCANICA-Italy, UIT-Italy, JSME-Japan, KSME-South Korea, AMIME-Mexico, KIVI-The Netherlands, IPENZ-New Zealand, NSF-Norway, PSME-Philippines, SIMP-Poland, OE-Portugal, RSME-Romania, RAN-Russia, IE-Singapore, SMES-Slovak, FAIIE-Spain, SMR-Sweden, TCME-Turkey, USME/UAN-Ukraine, IE-United Kingdom, IMechE-United Kingdom, CIV-Venezuela, SMEITJ-Yuogoslavia.

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Links to Related Conferences:

- [10th IFToMM](#), Tenth World Congress of the International Federation for Theory of Machines and Mechanisms, University of Oulu, Finland, June 20 - 24, 1999. ([IFToMM Home Page](#)).
- [12th ICED](#), 12th International Conference on Engineering Design, Technische Universität München, August 24-26, 1999
- [1999 ASME Design Engineering Technical Conferences](#), Las Vegas, Nevada, September 12-15, 1999.

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IFTToMM Call for Papers

The Tenth World Congress on the Theory of Machines and Mechanisms will be held in Oulu, Finland, on June 20-24, 1999. The Congress will cover the general area of theory and practice of machines and mechanisms. The topics covered are those of the IFTToMM Technical Committees. Intending authors should submit extended abstracts (not less than 300 words) to:

Kenneth J. Waldron, Ph.D., P.E.
Mechanical Engineering
Ohio State University
206 West 18th Ave
Columbus, OH 43210-1154
Phone: (614)292-0500
FAX: (614)292-3163
Email: waldron.3@osu.edu



Mechatronics Conference Announced

The 2nd International Conference in Recent Advances in Mechatronics - ICRAM '99 will be held in Istanbul, Turkey, during

May 24-26, 1999. It is organized by UNESCO Chair on Mechatronics of Bogazici University, Istanbul, under the technical co-sponsorship of IEEE Industrial Electronics and Robotics & Automation Societies. ASME DED is technically cooperating. For further information contact icram@boun.edu.tr and visit <http://mecha.ee.boun.edu.tr/icram99.html>.



Safety First

The Design Engineering Division is seeking nominees for the ASME-Triodyne Safety Award. This prestigious award was left unclaimed in 1998 due to lack of nominees! Please help to identify a deserving candidate.

Nomination forms and assistance are available from:

Ronald Woloszewicz, Ph.D.
5410 Country Club Drive
La Grange, IL 60625
Phone: (708)354-1172



He (Would Make) A Jolly Good Fellow

Fewer than 2% of our Society's membership have been elevated to the grade of Fellow. This is lower than most other Societies and the fault is ours: a proposal for promotion to Fellow must be initiated by a Fellow or Member of our Society.

For information and assistance on nominating a fellow, please contact:

Richard A. Hirsch, P.E.

8220 Marcie Drive

Baltimore, MD 21208-1944

Phone: (410)486-4058

Email: 71175.274@compuserve.com



***Journal of Mechanical Design* Announces New Editor**

Professor Bahram Ravani from University of California, Davis stepped down as the editor of the *ASME Journal of Mechanical Design* effective January 1, 1998. Ravani held the editor's position since 1993. His tenure is marked with many significant achievements including eliminating the excessive backlog and developing an extensive web site for the Journal that in 1997 received an award for the Top Education Website from the Educational Index. Ravani has passed the torch to Professor Lung-Wen Tsai at the University of Maryland.



Design Education Sessions at IMECE

The Design Education Committee is soliciting participation in two sessions at the 1998 International Mechanical Engineering Conference and Exhibition (IMECE) in Anaheim, CA on November 15-20, 1998: "Total Quality in Design Engineering Education" (contact Dr. Tony Lin at TLIN@kettering.edu) and "Failure Analysis and Prevention" (contact Dean Harris at engdesign@aol.com).



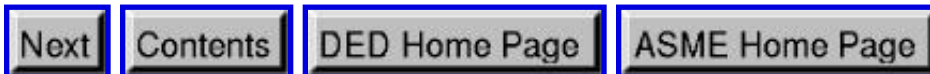
TCVS Announces Symposia

The Technical Committee on Vibration and Sound (TCVS) will sponsor two symposia at the 1998 International Mechanical Engineering Conference and Exhibition (IMECE): "Dynamics, Acoustics and Simulations" and "Active Control of Vibration and Noise". Contact Prof. William Clark at wclark@engrng.pitt.edu for more information.



Wanted: Students

ASME sponsors several contests of interest to our student members, such as the Student Design Contest (http://www.asme.org/students/design_contest/index.html), the Systems & Design Group Motion & Control Engineering Contest (<http://www.asme.org/educate/motion.html>), the Mechanism Design Contest (<http://www.et.byu.edu/~llhwww/contest.html>) and the Padnos Environmentally Responsible Design Competition (<http://engineer.gvsu.edu/padnos-competition/>). Follow the "Student Center" link on the ASME home page (<http://www.asme.org>) for up-to-date entry information.



Thomas R. Chase / trchase@me.umn.edu / August 24, 1998

A Message from the Chair



Steven A. Velinsky, Ph.D., P.E.

The Design Engineering Division is ASME's largest division with over 38,000 members selecting design as an interest area. Accordingly, our division serves a tremendous number of mechanical engineers from a great variety of work places. Furthermore, the very nature of design implies that our field is constantly changing. As such, the Design Engineering Division has been ever evolving since its inception over 50 years ago.

Through my experience, I have observed that DED continues to be an international leader by striving towards the following three underlying (and unwritten) operating principles as its purpose:

- Fostering Innovation
- Balancing Industrial and Academic Interests.
- Being Receptive To New People & Their Ideas

Innovation is inherent to the area of design, but we are innovators in more than our technical work. Not only do we foster innovation through our conferences and publications, but DED has been a significant innovator both within and outside of ASME. Under Dr. Bahram Ravani's leadership, the *Journal of Mechanical Design* is the first ASME journal to develop a web site with a searchable database, and it has been awarded a national honor for an education-related web site. We were the first division within ASME to provide CD-ROM conference proceedings, and we have utilized the web to present a dynamic newsletter with more depth than the current hardcopy.

In addition to the numerous on-going activities which are discussed elsewhere in this newsletter, several new initiatives are examples of our response to the ever changing environment and to best meet the needs of our members, both academic and industrial. With the tremendous advances in the electronics field, the integration of electronics within mechanical systems is ever increasing and has become a significant function of mechanical designers. The division has been sponsoring two premier archival journals (*Journal of Mechanical Design* and *Journal of Vibrations and Acoustics*) for several years, and I am pleased to announce that we are in the process of joining the ASME Dynamic Systems and Control Division and IEEE in co-sponsoring the joint *ASME/IEEE Journal of Mechatronics*. This journal provides another means for DED members to impact the profession. I encourage you to support this journal, in addition to our other DED journals, by submitting technical papers and also by subscribing.

To better respond to the needs of our industry members, starting this year, we have joined forces with the Society of Manufacturing Engineers to co-sponsor AUTOFACT, the leading conference showcasing information technologies used in all aspects of manufacturing. This is in addition to our sponsorship of the National Design Engineering Conference, which runs in conjunction with the National Design Engineering Show and National Manufacturing Week every Spring in Chicago. Both of these conferences provide an excellent venue for technology transfer to the tens of thousands of practicing engineers who attend.

DED is open to anyone with interest in participating, and we value the ideas and perspectives that new members bring. You might ask, "What specifically does participation mean?" We are open to contributions at many levels. For example, members can have an impact at our conferences from attending and participating in discussions, to organizing sessions through our technical committees, to submitting technical publications. Furthermore, you can have an impact by nominating deserving individuals for our awards, or by taking an active role in any of our activities. We encourage interested members to attend any of our conferences, contact any of the technical committee chairs in your interest area, or contact any of the members of the Executive Committee. I hope to see many new faces in the coming year.

In closing, I thank all of you who have contributed to the division over the last year, and I extend particular gratitude to Roger Mayne, the exiting Executive Committee member, Sheri Sheppard, for chairing the division this past year, and Bahram Ravani, for five years of devoted service as Technical Editor of the *Journal of Mechanical Design*. I look forward to serving the division this year.



Steven A. Velinsky / savelinsky@ucdavis.edu / April 16, 1998

Practicing Design Engineer's Forum

Nathaniel J. Leon

The world of the degreed Mechanical Engineer is changing, as is the world of every other professional. More and more of us are no longer part of a large organization. As a matter of fact, many of us are part of very small organizations.

Five years ago this March, I found myself laid off a second time in just about the same number of years. Overqualified and under-employed, I struck out on my own, providing mechanical design and product development services for small companies and individual entrepreneurs. Since that time I have landed contracts with the US Government and some Fortune Five Hundred companies. I say design services and not engineering services because I have not taken the time to get my Professional Engineering License.

It was not easy. Actually it was and still is quite challenging, though on the good side it has been very satisfying. And why did I do it? I did it because I had to! I had to find a way to keep my body and soul together when the bottom fell out of the engineering employment market. Low and behold, I found that I could survive as an independent.

There are some unforeseen benefits to being an independent. Contrary to popular belief I have more engineering contacts and communicate with more individuals now than I ever did when working for a "regular company," even as a contractor for DuPont. I developed a network of other consultants like myself throughout the country. I can freely call on them as needed to discuss a challenge or to put together a larger team of people to design and fabricate devices for clients.

As an independent I am not forced to work on anybody's schedule but my own. Though this usually means that I only work half days (I decide which 12 hours of the day I want to work), I find that I have the energy to put in the hours required and get a great sense of satisfaction by making my clients happy and giving them more than their money's worth.

It is also much easier to be an independent than it was even 10 years ago. With the World Wide Web and fast and inexpensive personal computers, I am able to do a lot by myself. Before the computer revolution I would do calculations by hand using a scientific calculator or slide rule and would have to totally redo a drawing after only a few erasures by hand. Now I can use a spread sheet or computer analysis program to do the calculations and perform several "what ifs" in quick succession to optimize a design. I use solid modeling programs to develop my devices in three dimensions in a computer-generated virtual world,

thereby finding interferences much more quickly than could be done in two dimensions and by hand.

Once the model is complete I transfer the information to a drafting module or program. When necessary I send the information directly to a designer (60 miles away) who is one of my associates. He can then quickly produce a final drawing. Alternatively I can send the computer model directly to a service bureau. At the service bureau a rapid prototyping technology is used and a final part is ready for my client to evaluate without ever needing to make a traditional engineering drawing.

Using the World Wide Web I can research information needed for an assignment or send the results of my work to a client or as noted above to a service bureau without ever leaving the office in my basement. I have done work for clients as far away as New Zealand and Europe.

Being an independent is not for everyone. You must be able to work independently with little or no direction. You must have a thick skin and a strong constitution. If you can accept the fact that the client is *always* right, and have a family that understands and can accept the fact that life will be very exciting, and often unplanned, you to may be able to make it as an independent consultant.

As for me, the water is fine.



Nathaniel J. Leon / leonn@asme.org / February 17, 1998

Division Establishes International Activities Committee

Philip E. Doepker, Ph.D., P.E.

In response to the growing number of activities associated with international programming, the Design Engineering Division has formed an International Activities Committee. Members of the committee are Clive Dym, Crispin Hales, Tom Sankar, Dan Segalman, Oliver Tegal, Ken Waldron and Phil Doepker (Chair). The committee met for the first time at the National Design Engineering Conference and Show in Chicago.

An analysis of the activities of the Design Engineering Division has revealed that there is a high level of international participation by committees within the division that needs to be disseminated to those interested in design. Activities of IFToMM, ICED and MOVIC are presented below. Selected international conference announcements of interest to DED members are included in the [*Design Darts*](#) feature of this on-line newsletter.

In addition to these societies and conferences the division has participated with Engineering Systems Design and Analysis (ESDA) which is sponsoring a conference in Berlin, Germany, July 6-9, 1998. The Power Transmission and Gearing committee has extensive participation in their conferences as does the Design Engineering Technical Conference sponsored by the Design Engineering Division.

In the short term we are exploring ways in which we can participate with other organizations by providing support and co-sponsorship with related and leading international conferences and societies. In the long term we will be looking toward joining other international organizations in developing sessions and sponsoring international design engineering conferences. Anyone interested in participating in committee activities is asked to contact Phil Doepker at: pdoepker@engr.udayton.edu or call (937) 229-2971.

ASME Continues Collaboration with IFToMM

The International Federation for Theory of Machines and Mechanisms (IFToMM) plays an important role as a truly international organization serving the professional community in the broad areas of theory and design of machines and mechanisms. Membership is by national organization, with ASME being the U.S. affiliate. IFToMM functions have long provided forums in

which professionals from both East and West could meet on equal footing.

ASME is well represented in the IFTOMM governance structure. The Executive Council includes two ASME members out of eleven elected members. Professor Jorge Angeles, who represents Canada, is president. Angeles is also very deeply involved in ASME Design Engineering Division activities. Professor Joe Davidson of Arizona State University is also a current member of the Executive Council. Dean Terry Shoup of Santa Clara University and the Design Division is the editor of the IFToMM journal, *Mechanism and Machine Theory*. Two other ASME Members are ex-officio members of the Executive Council by virtue of chairing IFToMM technical committees. These members are Dr. Bahram Ravani who chairs the committee on Transportation Machinery and Dr. Ken Waldron as chair of the Permanent Commission on Education.

IFToMM was a collaborating sponsor of the 1997 DETC in Sacramento. The Division has also voted to invite IFToMM to assume the same status with respect to future DETC's.

The IFToMM Technical Committee on Robots and Manipulators will co-sponsor the 6th International Symposium on Advances in Robot Kinematics (ARK) with the Technical Committee on Computational Kinematics. The symposium will be held in Strobl, near Salzburg, Austria June 29-July 4, 1998. The Twelfth CISM-IFToMM Symposium on the Theory and Practice of Robots and Manipulators (RoManSy) will be held in Paris July 5-9, 1998.

The call for papers for the Tenth World Congress on the Theory of Machines and Mechanisms to be held in Oulu, Finland June 20-24 1999 has been received. This quadrennial congress is IFToMM's primary meeting. Extended abstracts of intended papers should be submitted to Ken Waldron by July 21, 1998. Ken can be contacted at: waldron.3@osu.edu.

Division Members Participate with ICED

The 1987 International Conference on Engineering Design (ICED), held in Boston, was co-sponsored by ASME. This led directly to the creation of the Design Theory and Methodology (DTM) Committee within the Design Engineering Division. Since then the DTM Committee has flourished and matured, to the point where many members now participate in the ICED conferences, held every two years in different countries.

The next conference is ICED 99 to be held in Munich, Germany and at least 10 members of the DTM Committee are already involved as chairpersons or session organizers. There is now a strong interaction among design researchers around the world and the DED International Activities Committee is looking into the possibility of more formal links with the Workshop Design/Konstruktion (WDK) Society which organizes the ICED series and associated international workshops. For further information

please contact Dr. Crispin Hales at: infoserv@triodyne.com or call (847)677-4730.

1999 Vibration Conference to Include MOVIC

The Technical Committee on Vibration and Sound, through the efforts of Subhash Sinha, has established a cooperative arrangement with the Japan Society of Mechanical Engineering (JSME) and their Motion and Vibration Control (MOVIC) committee to include the *International Symposium on Motion and Vibration Control* with the [1999 DETC and the 17th Annual Vibration Conference](#). This will be the first time MOVIC will host its conference in an *odd* year which will be in Las Vegas in September 1999.

The aim of the MOVIC committee is to stimulate contacts between scientists active in the area of motion and vibration control and engineers of virtually every field. The past MOVIC conferences took place in Yokohama (1992 and 1994) and in Chiba (1996). The 1998 MOVIC Conference will take place in Zurich, Switzerland (web site: <http://enterprise.ethz.ch/movic98/>). Additional information can be obtained from Dr. Sinha at: ssinha@eng.auburn.edu.



Philip E. Doepker / pdoepker@engr.udayton.edu / May 4, 1998

A View from the VP's Chair

John W. Wesner, PE
ASME Vice President for Systems & Design

I want to share with you two current ASME activities that should be of great interest to Design Engineering Division members.

The *Industry Partners* program, led by the Council on Member Affairs, seeks to help the industries we work for to understand why our membership in ASME is of value to *them* as well as to us individually. Then in March a Council on Engineering *Retreat* identified some activities for COE to pursue in the next few years... some of which sound remarkably like the Industry Partner activities!

For those of you who don't follow "upper level" ASME organization issues, the *Council on Engineering* (COE) sponsors ASME's (mostly national) technical activities. The Design Engineering Division is a unit of the COE. The *Council on Member Affairs* (CMA) principally sponsors local activities, like Local Sections, and Student Sections at Engineering schools. Every ASME member belongs to both COE and CMA.

The Industry Partners program began with a weekend retreat in St. Louis in January. Participants were leaders from several parts of CMA, plus two (including me) from COE. After brainstorming lots of ideas to help demonstrate to industry employers the value of ASME, we broke into teams that chose and began to develop a few initiatives that seemed to have the highest potential.

The activities selected were grouped in four categories:

1. Development of Engineering Talent
 - Expand ASME's training offerings to meet "current and future industry training needs for managers and practicing engineers," and offer these in a variety of media.
 - Expand and better publicize the current ASME Industry Award (a CMA award).
 - Develop an engineering sabbatical fellowship/internship program to recognize outstanding engineers.
2. Knowledge/Technology Transfer
 - Promote and establish Technical Chapters.

- Promote and support Section Technical Conferences.
- Establish a Mentoring system to help inexperienced engineers.
- Develop systems to provide Distance/Electronic Learning/Training on demand.

3. Internet Resources

- Provide any company employing an ASME member, visibility on ASME's Web site, with a hot link to the company's Web site (or basic information if the company has no Web site).
- Organize on-line education and training programs.
- Establish a means for on-line searching for technical information, suppliers, and experts. This would be set up so that ASME members have sole or preferred access.
- Make ASME's Codes and Standards available on line (for a fee).

4. Networking

- Expand ASME's electronic networking offerings.
- Become more involved with local communities and media for greater networking.
- Expand the Industry Breakfasts program (a CMA program carried out at the Local Section level).
- Make sure employers and communities are more aware of ASME and our activities.

These range from brand-new activities to things that are already being done by some ASME unit.

The COE Retreat culminated three years of looking at where COE should be planning to be in the next five to 25 years. We ended up selecting these activities to work on:

1. Increased industry participation in technical activities.
2. More effective methods for identifying, responding to, and promoting new technology opportunities. (For example, is there a hot new technical area where we ought to have a new Technical Division?)
3. Increase retention of student and young members.
4. Electronic conferencing and virtual technical meetings.
5. Publicizing ASME's electronic offerings.

Numbers 1, 3, 4, and 5 are remarkably similar to the Industry Partners chosen activities! We will be sure to coordinate these!

Do any of these activities excite you? Would you like to start a Design Engineering Division Technical Chapter in your Local Section? Would you like to be a mentor for a young engineer? Would you like to have a Design Division Technical Conference in your town, hosted by your Local Section? Do you want to get involved in enhancing ASME's World Wide Web offerings?

Both groups are looking for active participants. If you would like to learn more about either, or sign up for something, please contact either

Industry Partners: Roy Breaux, RJYX96A@prodigy.com

COE Retreat: John Wesner, wesnerj@asme.org

One more note: to better engage the 36 Technical Divisions (Design Engineering is one of the 36) in insuring that COE's Vision is fulfilled, COE is planning to include the Chairs of all the Divisions in next March's Retreat. The COE Vision is:

To be the premier organization for the development and dissemination of technical knowledge concerning mechanical engineering and related practices.

If you have any ideas how the Design Engineering Division can contribute to our fulfilling the Vision, or to achieving any of the activities described above, please let your Division Chair (Prof. Steven Velinsky, savelinsky@ucdavis.edu) know as soon as possible, but certainly before March's retreat.

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John W. Wesner / wesnerj@asme.org / May 15, 1998

Past Chair's Report



Sheri Sheppard, Ph.D., P.E.

It has been a privilege to be on the Design Division Executive Committee for the last five years. Over that period, I have learned a lot technically and professionally through my Design Division responsibilities. Technically, it has been exciting to exchange ideas with and listen to individuals who are among the leaders nation and worldwide in design engineering practice, research and education. Professionally, it has been inspiring to see how many mechanical engineers are willing to freely give of their time and energy to advance their profession and others in that profession. The service ethic is strong among ASME Design Division members. The ASME Design Division also relies heavily on the talents of a strong professional staff at ASME Headquarters-- I have been impressed with the creative, organizational and implementation abilities of this staff.

Over the last year, the Design Division has continued to establish itself as a division that is willing to take a leadership position in order to serve the needs the a broad range of members involved with mechanical design. The membership of the Division spans practicing engineers, researchers, and educators. It also spans a membership that is worldwide. In addition, the domain of mechanical engineers is expanding, now often including the responsibilities of the "mechatronics engineer". The Division is serving these various groups through conferences, articles, and publications--many of these items are discussed elsewhere in this newsletter. The Division also serves these groups by offering an opportunity to become involved as an active member by, for example, being involved in reviewing papers, organizing conference sessions, or even editing newsletters. (To find out about any

of these opportunities, contact any Executive Committee member).

I am happy to be leaving you with an outstanding Executive Committee to carry on governance of the Division. Dr. Steve Velinsky of UC-Davis is the new Chair. Steve has most recently been Vice Chair and Treasurer of the Division but has served two years as DETC Coordinator. Steve is personally involved in design research and education, and knows the business well. Dr. Crispin Hales of Triodyne Inc. is the new Vice Chair and Treasurer. Dr. Ken Waldron of Ohio State is the DETC Conference Coordinator, and Dr. Dan Segalman of Sandia National Laboratories is now the IMECE and roster coordinator. Finally, I would like to introduce the newest member of the Executive Committee-- Dr. Tom Chase from the Univ. of Minnesota. Tom has played many roles in the Design Division (chair of the Constitution and Bylaws Committee, DETC Conference Chair, and even newsletter editor). Welcome Tom!

I close with a big THANK YOU to the many people who have supported my work in the Design Division. I very much appreciate having worked with each of you and I look forward to continued projects with you.

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Sheri Sheppard / sheppard@cdr.stanford.edu / May 7, 1998

DED Mourns Loss of Taylor

Professor Dean L. Taylor, past Chair of the Design Theory and Methodology Committee and ASME Fellow, died suddenly at his home in Ithaca, NY on July 31, 1997. He was 48 years of age.

Dr. Crispin Hales, member of the Executive Committee, presented the following eulogy before the start of the Awards Luncheon of the ASME Design Engineering Technical Conferences in Sacramento, California on Tuesday, September 16, 1997:

Many of you will remember Dr. Dean Taylor, who was Chair of the Design Theory and Methodology Committee for the past two years and was recently elected Fellow of ASME.

I am very sorry to tell you that Dean died quite suddenly just a few weeks ago. It was a shock to all of us who knew Dean; and through Jon Cagan, the current Chair of the DTM Committee, we were in touch with the family as soon as we heard the news. Jon expressed to them our deep condolences and appreciation for all of Dean's contributions in the field of Engineering Design.

Dean was the motivating force behind the creation of the new Engineering Design Studio at Cornell University and was deeply committed to design education. His thoughtful approach and diplomacy contributed greatly to the development of the design research community. To me, as for many of us, Dean was a colleague we met at these conferences. He was always a live wire and involved with many projects. He enjoyed sailing, and I will always remember going ballooning with him at our conferences in Albuquerque.

He was always keen on public television, and his family had suggested that contributions could be sent to public television instead of sending flowers at the funeral. As there are a number of people who would like to make a contribution we decided to try something quite new. We approached public television with the idea that a contribution will be made and that in turn they might rerun a program, such as a NOVA program with an emphasis on Engineering Design, in memory of Dean. Apparently nothing like this has been done before, but the idea was well received and we plan to go ahead with it.

In remembrance of Dean and our thanks for the part of his life he shared with us, I would like to call for a few moments of silence.

The *ASME Dean Taylor Memorial Fund* was donated to WSKG, the PBS station out of Binghamton, NY, which broadcasts in Ithaca. Funds were used to underwrite "Bill Nye the Science Guy". After the show was posted "Funding for Bill Nye the Science Guy was provided in part by the American Society of Mechanical Engineers in Memory of Professor Dean Taylor of Cornell University". Thanks to DTM Chair Jon Cagan and Past DED Chair Sheri Sheppard for coordinating this fund and to the many DED members who made contributions.



Jonathan Cagan / cagan@cmu.edu / May 9, 1998

National Manufacturing Week '98 Review

Richard A. Hirsch, P.E.

National Manufacturing Week consisted of four shows and one conference containing what used to be four separate conferences including the National Design Engineering Conference. The NDEC is no longer identified as such but nevertheless, ASME is still a conference co-sponsor.

Sessions were identified by discipline and for Design there were 39 sessions with 18 contributed by ASME through the Design Engineering Division. Ten sessions were organized by the DFM Committee through the efforts of Sung Kim, Kathy Jacobson, and Mike Carter, two sessions were organized by the Education Committee's Tom Libertiny, Tim Jur, and Dean Harris and one session was organized by Sabri Cetinkut of the TCVS Committee. The remaining five sessions were organized by other divisions with two from the Management Division, two from the Manufacturing Engineering Division and one from the SERAD Division.

The total session attendance was slightly less than last year but the average session attendance was up at 28.3 overall and at 32.8 for our sessions. Preliminary data indicates that both the session and speaker ratings were significantly higher than last year.

Reed has discussed some potential changes for the 99 conference such as fewer sessions, perhaps 100 rather than 120. This might be done by reducing to three or four time slots per day rather than five. The shows seem to draw more and more exhibitors each year with the display of products and services rather overwhelming.



Past chair Sheri Sheppard (far left) poses with Student Design Contest winners at National Manufacturing Week (l to r): Suzanne de Montmorency and Kelly Duffin of the University of Toronto, Luke Webber of Oregon State University and Stephen Parks of Tennessee Technological University. Their demos of their winning designs attracted much attention at NMW!

This year the winning teams from the Student Design Contest had the first and second winning designs in the ASME booth on the show floor. Once every hour or so they would operate their systems to the delight of the crowd that would gather.

The 1999 National Manufacturing Week will take place in Chicago March 15-18, hope to see you there.

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Richard A. Hirsch / 71175.274@compuserve.com / April 3, 1998

DETC '97 A Huge Success

Bahram Ravani, Ph.D.

The 1997 Design Engineering Technical Conferences were held at the Hyatt Regency Hotel in Sacramento, California from September 14-17, 1997. 635 papers were presented in addition to panel discussions, short courses and technical committee meetings. The paid attendance of 638 well exceeded predictions. The conferences included Mechanical Vibrations and Noise, Design Automation, Design Theory and Methodology, Design for Manufacture, Computers in Engineering, and the Engineering Information Management Symposium.

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Bahram Ravani / bravani@ucdavis.edu / May 7, 1998

Design Contest Grows Again

Charles J. Hurst, P.E.

The Student Design Contest has grown in popularity with each passing year, even as the tasks have generally become more difficult. Statistics show that the number of students and the number of student teams have both increased markedly.

To really understand this contest, however, you can't look at statistics. You need to be present. You need to watch the tension build in student teams as they put their device to the test in front of their peers. You need to feel school loyalties and rivalries. You need to join in the cheers when a device works really well. You need to join in the laughter when something bizarre happens to the dismay of the contestants. And last, but not least, you need to gather with the students for the post-mortems and discussions when the contest is over.

The 1997 Contest challenged the students to move three balls-- two ping-pong balls and one golf ball-- from a specified starting location into a receiving box in the minimum time. As with earlier contests, the motivating forces for doing this had to come from a small Radio Shack motor powered from a 1.5 Vdc AA battery. A seemingly simple task.

At the national contest at the IMECE in Dallas, however, the devices representing each Region were often anything but simple. Winning teams had analyzed the acceleration and deceleration phases of the transfer carefully to find the optimum one. Digital circuitry was employed to control the motor and match its impedance to the motor. Winning devices also had been tested and debugged thoroughly.

All of this made for a very fast contest. Several teams finished the task in about one second. After careful review and study the fastest team was found to be the one from the University of Toronto, representing Region V. Suzanne de Montmorency, Kelly Duffin, and Melanie Lam took home the \$3000 First Prize and earned their student section \$1000. Their winning device was displayed at the Design Show in Chicago as well.



Past chair Sheri Sheppard (far left) poses with Student Design Contest winners at National Manufacturing Week (l to r): Suzanne de Montmorency and Kelly Duffin of the University of Toronto, Luke Webber of Oregon State University and Stephen Parks of Tennessee Technological University. Their demos of their winning designs attracted much attention at NMW!

The 1998 Student Design Contest is now underway, with most Regions having their Regional Student Conferences between late March and mid-May. The challenge this year is to sort out the five "good widgets" from a set of 10 good and bad widgets. A good widget is a 3 cm by 6 cm piece of nominal 1/4 inch thick plastic with a 1/2 inch diameter hole in it. A bad widget has no hole. Detailed sets of rules are posted on the ASME Web site in the "Students" area. Once again the power must come from very small (specified) electric motors powered by one AA battery.

The 1999 Student Design Contest has been posted for the 1998-99 academic year. This contest challenges teams to construct a "rock retriever" as might be prototyped for eventual use on a space mission to Mars. Full information is available on web site http://www.asme.org/students/design_contest/index.html (or through the "Student Center" link of the [ASME Home Page](#)).

If you have a chance to visit one of the contest near you--try watching it!! You'll Like It!! Then plan to drop in on the national

contest at the IMECE in Anaheim.



Charles J. Hurst / 76620.1477@compuserve.com / March 18, 1998

Winners of Fourth Annual Padnos Design Competition Announced

The Winners of the fourth International Padnos Design Competition will receive awards at the ASME 1997 Design Engineering Technical Conference to be held in Sacramento California September 14-17, 1997.

Competition judging took place at Grand Valley State University. The judging committee, coordinated by Paul Plotkowski of GVSU, consists of engineering leaders from around the country who are experts in a variety of engineering disciplines. Competition participation is encouraged on an international level. This year 41 entries included projects from the east to the west coast of the United States, as well as India and Saudi Arabia.

The 1997 *Grand Prize* will be awarded to the team from Brigham Young University in Provo, Utah. Team members Mike Conover, David Barker, Kirby Hunt, Jeff Hall and Matt Rogers submitted their project *Mobile Water Remediation Unit for Petroleum-Fouled Process Water* under the guidance of faculty advisor, Dr. Brent Strong. The design implements a mobile, fully modular trailer unit which removes pollutants (up to 99% efficiency) from water and air, while producing no wastes in the process.

Second Prize winner is the ten-member team from the University of Tennessee, Knoxville with the project *Treatment of Effluent from a Confectionery Plant by Land Application*. This design proposes a land application system to dispose of 90,000 gallons a day of effluent while reducing treatment costs. Faculty advisors for the project are Dr. Raj Raman and Dr. Ronald Yoder.

The *Third Prize* will be awarded to Western Michigan University with the project *An Application of Industrial Hemp to Enhance the Recycleability of Paper*. Team members include Amy Vought, Katherine Pershell, Tim Rummel and Greg Logan, and Dr. David Peterson is the faculty advisor of the project. The WMU design seeks to increase the use of recycled paper by producing stronger paper through the addition of fibers from the hemp plant.

The (international) Padnos Design Competition recognizes capstone projects by senior level college engineering students which address environmental problems through innovative design techniques. The Competition is sponsored by the Luis and Helen Padnos Foundation, Grand Valley State University (Seymour & Esther Padnos School of Engineering), and the American Society of Mechanical Engineers (ASME International).

The structure of the competition provides for a Grand Prize award of \$6,000 to the University and two Honorable Mention awards of \$2,000 each to the University. Winning teams are invited to publish their projects in the *Technology Journal of the Franklin Institute*, which is one of the oldest refereed journals published in the United States.

The competition is open to individuals or teams. At least one member of each team must complete the project as part of his or her senior engineering design course work. All entries for the Padnos Design Competition must be completed within the current school year.

Submissions must be in English and include an official entry sheet, complete team member address information, a project report and an executive summary. Entries must also include either a completed 10 to 15 minute video presentation of the design or a poster illustrating the project with a presentation script.

For information on the 1998 Padnos Design Competition, including contest forms, contact web site, <http://engineer.gvsu.edu/padnos-competition/> (after September 1, 1997). Also available for contact are:

Paul D. Plotkowski (Padnos Competition Coordinator)

Email: plotkowp@gvsu.edu

and

Jean Kolb (Coordinating Assistant)

Grand Valley State University

301 W. Fulton

Grand Rapids, MI 49504

Phone: (616)771-6750

FAX: (616)771-6642 Email: kolbj@gvsu.edu



Jean A. Kolb / kolbj@gvsu.edu / May 9, 1998

**Sixth Annual - International
PADNOS DESIGN COMPETITION
for the 1998-99 Academic Year**

**Seeking
ENVIRONMENTALLY ORIENTED STUDENT PROJECTS**

Open to all Engineering & Engineering Technology Disciplines

**GRAND PRIZE
\$6,000**

and

An invitation to publish in
The Technology Journal of the Franklin Institute

**TWO HONORABLE MENTION AWARDS
\$2,000 Each**

SPONSORED BY:

**ASME International
Louis and Helen Padnos Foundation
Grand Valley State University**

For information and entry forms:

<http://engineer.gvsu.edu/padnos-competition/>

Or contact:

Paul Plotkowski
Padnos Competition Coordinator
Grand Valley State University
301 W Fulton
Grand Rapids, MI 49504
(616)771-6750
e-mail: plotkowp@gvsu.edu

The Padnos Competition is an ideal vehicle for students to:

- Use environmental issues to brainstorm and be innovative
- Win cash awards (totaling \$10,000 in student prizes)
- Be invited to attend a professional conference
- Be invited to publish
- Gain recognition for your institution

The Padnos Design Competition is seeking innovative student conducted engineering projects which address environmental issues focusing on topics such as:

- Design for product recycling
- Design for reuse
- Life-cycle assessment based design
- Source reduction and/or waste minimization
- Design for energy and/or resources conservation

In response to requests from several institutions, this year the competition will be open to freshman through graduating seniors.

The competition welcomes:

- Individual and team entries
- Entries from all engineering and engineering technology disciplines
- Interdisciplinary teams
- International entries

The Padnos Competition is an ideal means for creating a structure for courses with a project component and generating excitement among students by addressing environmental issues.

For those institutions without an existing environmental design effort, full documentation of a pilot program is available. This extensive set of course materials, entitled "Teaching Environmentally Responsible Design", has been developed to assist in introducing this topic to students throughout the curriculum in courses ranging from Introduction to Engineering through Thermodynamics and Senior Design.

Please consider using this competition as an element of a course this year.

For complete competition information please visit the Padnos Competition Homepage at:

<http://engineer.gvsu.edu/padnos-competition/>



Jean A. Kolb / kolbj@gvsu.edu / May 9, 1998

Honors and Awards '98

Farrokh Mistree, Ph.D.

The Honors and Awards Committee of the Design Engineering Division is pleased to announce the following award winners for 1998:

Leonardo da Vinci Award

Winner:

William C. Shaw. Inventor of the IMAX.

Nominator:

Steven Velinsky. UC Davis.

Outstanding Educator Award

Winner:

John Dixon. Emeritus Professor, University of Massachusetts.

Nominator:

David Rosen. Georgia Institute of Technology.

The Design Engineering Division actively seeks nominations for the following awards relevant to the Division:

ASME HONORS

Machine Design Award

The Machine Design Award recognizes eminent achievement or distinguished service in the field of machine design which is considered to include application, research, development, or teaching of machine design.

Frequency:

Annually if qualifying recipient is selected.

Form of Award:

Bronze plaque, engrossed certificate and \$1000 honorarium.

Presentation:

Traditionally presented at the ASME Design Technical Conference.

Administrator:

Design Engineering Division

DIVISION AWARDS

Robert E. Abbot Award

Established in 1978 to recognize individuals who have served the Design Engineering Division beyond the call of duty.

Frequency:

When appropriate.

Form of Award:

Embossed Certificate.

Presentation:

Spring Design Engineering Show.

Administrator:

Design Engineering Division

Jacob P. Den Hartog Award

Lifelong contribution to the teaching and/or practice of vibration.

Frequency:

Annually when appropriate.

Form of Award:

Plaque and certificate.

Presentation:

Biennial Vibrations Conference.

Administrator:

Design Engineering Division

Leonardo Da Vinci Award

Eminent achievement in the design or invention of a product which is universally recognized as an important advance in machine design.

Frequency:

Annually if qualifying recipient is selected.

Form of Award:

Medallion and engrossed certificate.

Presentation:

Spring Design Engineering Show or Design Technical Conferences.

Administrator:

Design Engineering Division

N.O. Mykestad Award

A major innovative contribution to Vibrations Engineering.

Frequency:

Once every two years if warranted.

Form of Award:

Plaque and certificate.

Presentation:

Biennial Vibrations Conference.

Administrator:

Design Engineering Division. Nominees organized by Vibration and Sound Committee.

Triodyne Safety Award

For outstanding contributions to teaching or research in the safety aspects of mechanical design.

Frequency:

Annually as merited.

Form of Award:

Inscribed plaque and honorarium.

Presentation:

Honors and Awards Convocation at the International Mechanical Engineering Conference and Exhibition.

Administrator:

DED Education Committee.

Outstanding Design Educator Award

This award is to be presented to a person who exemplifies the best in furthering engineering design education through his/her vision, interactions with students and industry, scholarship and impact on the next generation of engineers; a person who through his/her actions is a role model for other educators to emulate.

Frequency:

Once every two years if warranted.

Form of Award:

Plaque, \$1,000 honorarium, hotel, meals and registration.

Presentation:

Design Engineering Technical Conferences.

Administrator:

Design Engineering Division.

Judging:

Outstanding Design Educator Award Committee: 3 from DED H&A Committee and 3 from DED Education Committee.

Some of these awards are going unclaimed due to lack of nominees. Please help by identifying deserving individuals.

For more information on these and other awards of interest to the Division, please contact:

Prof. Farrokh Mistree
School of Mechanical Engineering
Georgia Institute of Technology
Atlanta, GA 30332-0405
Phone: (404)894-8412
FAX: (404)894-9342
Email: farrokh.mistree@me.gatech.edu



Farrokh Mistree / farrokh.mistree@me.gatech.edu / May 9, 1998

Design Automation Hosts '97 DETC

Debasish Dutta, Ph.D.

The Design Automation Committee organized the 23rd Design Automation Conference in Sacramento, California, during September 14-17, 1997, as part of the 1997 Design Engineering Technical Conferences which was also hosted by the Design Automation Committee (Bahram Ravani, General Chair). It was an exciting and successful conference in which 98 technical papers, in 26 sessions, were presented by authors from various countries around the world. The papers spanned several topics of current interest including product design, mechanisms theory and applications, design optimization and computer aided design.

The Papers Review Chair was assisted by the International Co-Chairs Professors Hans Eschenauer (Germany) and M. Yoshimura (Japan) and by review co-ordinators Professors Shapour Azarm, Bert Bras, Kambiz Farhang, Mark Ganter, Jeff Ge, Hae Chang Gea, Clement Gosselin, Anthony Luscher, Panos Papalambros, John Renaud, Duane Storti, Simon Szykman and Judy Vance.

Professor Michael J. French from Lancaster University delivered the keynote address "Prospects for Progress in Mechanical Design" for Design Automation, Design for Manufacturing, and Design Theory and Methodology conferences. In addition, there was an industry led panel session entitled "Computer Product Definition: Enabling Corporate Goals?".

There were two best paper awards. In mechanical design and optimization the Black and Decker award (\$1000 cash prize and a plaque) recognized the best paper. The new Applicon Best Paper award was given to the best papers in CAD/CAM theory and applications (\$1000 cash prize plus Applicon's Bravo educational software to the authors' institution). Finally, the Design Automation award was given to Professor Bahram Ravani for sustained contributions to the design automation research.

We look forward to the 1998 DETC in Atlanta where the 24th Design Automation Conference will be held. Approximately 90 papers will be presented in 27 sessions. Topics covered include robust design, design methods, geometric modeling, tolerances in design, concurrent design, virtual reality in design and rapid prototyping.

Plans for the [1999 Design Automation Conference](#) are well underway and further details about technical topics, industry panels and other events can be obtained from [Mark Ganter](#), 1999 Design Automation Conference Chair.

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Debasish Dutta / dutta@engin.umich.edu / May 28, 1998


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ASME Divisions & Groups

BASIC ENGINEERING TECHNICAL GROUP

Basic Engineering Technical Group that contains: Basic Engineering Group Rosters, Basic Engineering Group Minutes, and listings of Divisions of the Basic Engineering Groups.



Applied Mechanics Division (AMD)

The Applied Mechanics Division (AMD) is involved in the fundamental and applied field of mechanics, including solids, fluids and systems.



Bioengineering Division (BED)

The ASME Bioengineering Division (BED) is focused on the application of mechanical engineering knowledge, skills and principles from conception to the design, development, and analysis

Calendar Of Events

- A17 Elevator Code Week: January 2009
- ASME Boiler and Pressure Vessel Committee Code Week: February 2 to 6, 2008
- B31.8 Gas Transmission and Distribution Piping System Meeting- February, 2009

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Codes & Standards

- A112.19.1-2008/CSA B45.2-08, Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures
- A112.19.2-2008/CSA B45.1-08, Ceramic Plumbing Fixtures
- A112.19.3-2008/CSA B45.4-08, Stainless Steel Plumbing Fixtures

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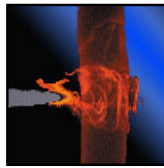
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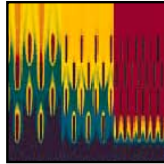
[Latest Nordam Layoff Erases 63 More Jobs](#)
Tulsa World Dec 17, 01:33 PM EST

[For more news click here.](#)



Fluids Engineering Division (FED)

Involved in fluid mechanics in all types of systems and processes involving fluid flow, including pumps, turbines, compressors, pipelines, biological fluid elements and hydraulic structures.



Heat Transfer Division (HTD)

Enhances the theory and application of heat transfer in equipment and thermodynamic processes in all fields of mechanical engineering and related technologies.



Materials Division (MD)

Focuses on the properties of materials, such as metals, ceramics, composites and polymers, and its influence on design consideration in materials selection for engineering structures.



Tribology Division (TRIB)

Involved in bearing design, lubrication, wear, the impact of tribological practice on reliability and maintainability, economic impact of friction/wear, and bearing design technology.

ENERGY CONVERSION GROUP

ASME's Energy Conversion Group is one of the seven Technical Groups in the Society. Power, ICE, Nuclear, Solar and Advance Energy Systems are the divisions that belong to this Group.



Internal Combustion Engine Division (ICED)

Promoting the art and science of engines while also encouraging and fostering research and development for mobile, marine, rail, generation and stationary applications.



Nuclear Engineering Division (NED)

Concerns the design, development, testing, operation and maintenance of nuclear reactor systems and components, fusion, heat transport, nuclear fuels technology and radioactive waste.

- B31.3 Process Piping Design
- BPV Code: Section VIII, Division 1- Design and Fabrication of Pressure Vessels with Repairs and Alteration Consideration
- BPV Code: Section VIII, Division 1 - Design and Fabrication of Pressure Vessels

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Distance Learning

- A Guide to the Engineering Management Certification Body of Knowledge (EMC-BOK Guide)
- Professional Engineer License (PE) Exam Prep on DVD - Review Course
- INTRO TO FINITE ELEMENT ANALYSIS (FEA) ONLINE COURSE

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Books

- ASME International Steam Tables for Industrial Use-2nd Edition
- Everyday Heat Transfer Problems
- Becoming Leaders: A Practical Handbook for Women in Engineering, Science, and Technology

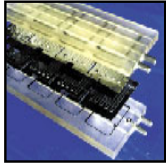
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Power Division

Information on design development, research, education, selection, maintenance, operation, economics, and environmental effects of both fossil-fired thermal power generation systems and hydroelectric.



Advance Energy Systems Division (AESD)

Promotes the advancement of emerging energy conversion devices and processes, such as hydrogen technologies, fuel cells and heat pumps, and understanding of thermo-economics.



Solar Energy Division (SED)

Concerned with all aspects of solar-derived energy for mechanical and electrical power generation, as well as wind energy and ocean thermal energy conversion.

ENGINEERING AND TECHNOLOGY MANAGEMENT GROUP

The American Society of Mechanical Engineers group that contains, Management Division, Safety Engineering and Risk Analysis Division and Technology and Society Division.



Management Division (MGMT)

Concerns the management of the engineering process to control resources, both human and material, to improve the quality of products and services provided by organizations.



Safety Engineering & Risk Analysis (SERAD)

Promotes practices that lead to reduced risk and loss prevention by creating safer products, processes, and occupational environments.



Technology & Society Division (T&S)

Interactions between technology and society, raises awareness and promotes understanding of the interrelationships between technological and the world community.

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ENVIRONMENT AND TRANSPORTATION GROUP

Fields of environmental control of air pollution, noise, solid wastes, and other environmental contaminants.



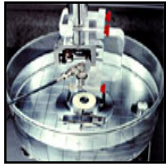
Aerospace Division (AERO)

Concerns mechanical engineering of aircraft and manned/unmanned spacecraft design, including adaptive ("smart") structures and materials, propulsion systems life support equipment.



Environmental Engineering Division (EED)

ASME division concerning air, ground and water pollution control technologies, environmental remediation, and waste management.



Noise Control and Acoustics Division (NCAD)

ASME technical division concerning noise control and acoustics principles and its applications to noise control engineering.



Rail Transportation Division (RTD)

ASME division covering engineering of railroad and mass transit systems, locomotives, freight, passenger, and commuter cars.



Solid Waste Processing Division (SWPD)

ASME division addressing the design, construction and operation of solid waste processing facilities.

MANUFACTURING TECHNICAL GROUP

Consists of five Divisions: Manufacturing, Material Handling, Plant Engineering and Maintenance, Process Industry, and Textile Engineering.



Manufacturing Engineering Division (MED)

ASME's Manufacturing Engineering Division (MED) which fosters the transfer of technology related to manufacturing between industry, universities and national research laboratories.



Materials Handling Engineering Division (MHED)

Promotes dissemination and application of technological advancements through mechanical engineering, systems engineering and information technology.



Plant Engineering & Maintenance Division (PEMD)

Focuses on the design, fabrication, installation, operation and maintenance of manufacturing systems, equipment, processes and facilities to create products of enhanced value.



Process Industries Division (PID)

Focuses on the design of systems and machines for heating, cooling or treating industrial fluids and gases, including the efficient management and control of the processes themselves.

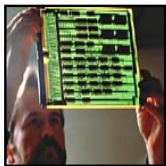


Textile Engineering Division (TED)

ASME's textile engineering division focuses on product and process technology for improvement of fiber, composite, textile and apparel manufacturing operations, textile machinery and instrumentation.

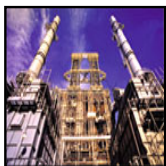
PRESSURE TECHNOLOGY GROUP

The Pressure Technology Group represents the Pressure Vessels and Piping (PVP) and Non-Destructive Evaluation (NDE) Engineering Divisions.



Nondestructive Evaluation Division (NDE)

Covers the evaluation of critical system components for material/defect/structure characterization through nondestructive methods, such as ultrasonics, radiography and other techniques.

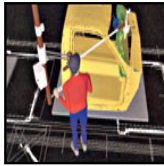


Pressure Vessels and Piping Division (PVP)

Concerns the design, fabrication, inspection, operation and failure prevention of power boilers, heating boilers, pipelines, pumps, valves and other pressure-bearing components and vessels.

SYSTEMS AND DESIGN GROUP

The Systems and Design Groups provide a process to foster interdivisional synergy, provide ASME membership with an integrated view of the involved technical disciplines and their relevance.



Computers and Information in Engineering Division (CIE)

A forum for understanding the application of emerging technologies that impact critical engineering issues of representation, product design and product development.



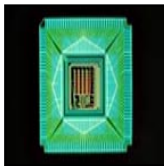
Design Engineering Division (DED)

Fosters understanding and research covering the art, science, and application of design engineering to the product realization process including conception, evolution and manufacturing of products.



Dynamic Systems & Control Division (DSCD)

Concentrates on control methods and devices, from servomechanisms and regulators to automatic controls, for dynamic systems involving forces, motion and/or the flow of energy or material.



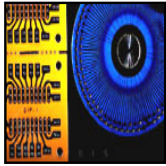
Electronic & Photonic Packaging Division (EPPD)

Fosters cooperation on mechanical engineering considerations of microelectronics, photonics, microwave and microelectromechanical systems design and manufacturing.



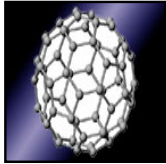
Fluid Power Systems & Technology Division (FPST)

Advances the design and analysis of fluid power components, such as hydraulic and pneumatic actuators, pumps, motors and modulating components, in various systems and applications.



Information Storage & Processing Systems Division (ISPS)

Focuses on the mechanics of electronic information storage devices and their manufacture, with primary focus on rigid and floppy disks, magnetic tape, VCR and optical disk technologies.



Microelectromechanical Systems Division (MEMS)

Furthers developments of miniature devices combining electrical, mechanical, optical, chemical and/or biological components fabricated via integrated circuit or similar manufacturing techniques.



International Petroleum Technology Institute (IPTI)

Founded for mechanical engineers working in the areas of Petroleum, Natural Gas, Petrochemicals, Coal, Oil Shale, to participate in a technical community through conferences and workshops.



Pipeline Systems Division (PSD)

Promotes pipeline systems technology, including automation, rotating equipment, geotechnics, heat transfer, offshore, materials, GIS, database, environmental issues, design, and construction.



Petroleum Division (PD)

ASME Petroleum Division was founded to provide a community for mechanical engineers working in the areas of Petroleum, Natural Gas, Petrochemicals, Coal, and Oil Shale.



Ocean, Offshore and Arctic Engineering Division (OOAE)

Promotes technological progress & international cooperation in ocean, offshore & arctic engineering, and in recovering resources, that environmental & economic successes are achieved safely.



International Gas Turbine Institute (IGTI)

Support the exchange & development of information to improve design, application, manufacture, operation & maintenance, and environmental impact of gas turbines, turbomachinery and related equipment.



Nanotechnology Institute

The Institute is a clearinghouse for ASME activities in nanotechnology and provides interdisciplinary programs and activities to bridge science, engineering, and applications.

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Spotlight on the Design for Manufacturability Committee

Rajit Gadh, Ph.D.

The mission of the Design for Manufacturability (DFM) Committee is to disseminate DFM practices, theories and computational methods amongst the engineering community as well as to encourage the growth and recognition of the value of DFM.

The DFM committee consists of members both from academia as well as industry. The DFM Committee participates in three conferences (Design Engineering Technical Conferences, National Manufacturing Week Conference in Chicago and the International Mechanical Engineering Conference and Exhibition) each year hosting reviewed paper sessions, lectures, and panel discussions on the theme of design practices with the initial involvement of all downstream users in the design process. Common synonyms for our work are concurrent engineering, design for assembly, design for test, design for recyclability -- in other words: design for "X".

If anyone is interested in participating in the DFM committee, please send email to any of the committee officers (listed below) and indicate your interests.

Current officers of the DFM committee

Executive Officers

Chair:

Rajit Gadh gadh@me.engr.wisc.edu

Vice-chair:

Kathy Jacobson kathy.j.jacobson@lmco.com

Secretary:

Yuyi Lin ylin@uvaxma.mae.missouri.edu

Newletter:

Pete Robinson

Kathy Jacobson kathy.j.jacobson@lmco.com

Past Chair:

Rick Behun behun@us.ibm.com

Conference Chairs

1998 DETC conference:

Jai Menon menon@watson.ibm.com

Satyandra Gupta Satyandra.K.Gupta@ISL1.RI.CMU.EDU

Bill Regli wregli@mcs.drexel.edu

1999 DETC conference:

Robert Sturges sturges@vt.edu

Satyandra Gupta Satyandra.K.Gupta@ISL1.RI.CMU.EDU

Jai Menon menon@watson.ibm.com

David Kazmer kazmer@ecs.umass.edu

ASME Annual Congress (1998 and 1999):

B. Sung Kim bsk@pruxp.pr.lucent.com

Samir Billatos



Rajit Gadh / gadh@engr.wisc.edu / April 23, 1998

DTM Gears Up for DETC '98

Jonathan Cagan, Ph.D.

The Design Theory and Methodology Committee is looking forward to its 1998 conference. Conference chair Jami Shah and paper chair Kevin Otto are working hard to organize an exciting and intellectually stimulating conference. 70 papers have been submitted with a target acceptance of 40. The conference will maintain its single-track session to encourage the hearty discussion that usually accompanies the conference. We look forward to seeing you all in September.

The Committee extends its gratitude to Kris Wood and Jami Shah for running a superb 1997 Conference. 40 papers from industry and academia from within the US and abroad led to another successful conference with consistently high participation from the design community.

The DTM community mourns the loss of Dean Taylor who passed away last August. Dean was an active member of the Committee and was my predecessor as committee chair. We will all miss him and wish his family well.

It is with pride that the DTM community congratulates Alice Agogino on her election to the National Academy of Engineering. Alice has been an active member of the DTM community and we have enjoyed seeing and participating in her accomplishments.

DTM continues to contribute advancements in design theory and applications of new methods in industry. Over the past few years both aspects of our activities have continued to make impact in the research and practice communities. The strong mix of university, industry, and international participation continues to lead to a positive synergy and new approaches to design research and practice. We invite all interested engineers and designers to join us at our annual conference and participate in our committee activities.



Jonathan Cagan / cagan@cmu.edu / March 3, 1998

Fastening & Joining Initiative

Anthony Luscher, Ph.D.

After about 18 months of effort, the Fastening & Joining Committee has reached a quorum of 12 members. This committee will be a focal point for promoting research in the area of novel fastening and joining methods. Such methods are often the key in producing low cost and high performance products.

Currently research on fastening and joining is conducted in a very diffuse manner with solutions broken up among several domains. This committee will encourage researchers to look at fastening and joining from a holistic viewpoint in order achieve the best solution for a given application. It will sponsor conference sessions, possibly jointly with other committees.

This committee encourages other academic and industrial partners to promote research and solutions in this area. If you are interesting in becoming active in the joining & fastening committee please contact me at:

Dr. Anthony Luscher
Assistant Professor
Department of Mechanical Engineering
The Ohio State University
206 West 18th Avenue
Columbus, OH 43210-1107
Phone: (614)292-4474
Fax: (614)292-3163
Email: luscher.3@osu.edu



Anthony Luscher / luscher.3@osu.edu / May 11, 1998

Mechanisms for DETC '98

Kazem Kazerounian, Ph.D.

All of the planning for the 25th Biennial Mechanisms Conference is in place and ready to unfold in 4 plus jam packed days (September 13-16, 1998) of the conference in Atlanta, Georgia at the Omni Hotel at CNN center. The biennial Mechanisms conference is held in conjunction with six other technical conferences within the Design Engineering Division of ASME. Professor Harvey Lipkin from George W. Woodruff School of Mechanical Engineering at the Georgia Institute of Technology is the general conference chairman. The Mechanisms conference will be chaired by Professor Lung-Wen Tsai from the Department of Mechanical Engineering at the University of Maryland. There are eight area programs, as well as Student Design Competition, Panel Sessions, Tutorials, and Exhibits in the conference.

The 26th Biennial Mechanisms Conference, as part of ASME Design Engineering Technical Conference in 2000, will be held in Baltimore and Professor Lung-Wen Tsai will be the general conference chairman.

Professor Bahram Ravani from University of California, Davis stepped down as the editor of the *ASME Journal of Mechanical Design* effective January 1, 1998. Bahram Ravani held the editor's position since 1993. His tenure is marked with many significant achievements including making the journal operation profitable, improving the quality of published papers, eliminating the excessive backlog, and developing an extensive web site for the Journal that in 1997 received an award for the Top Education Website from the Educational Index. Ravani has passed the touch to Professor Lung-Wen Tsai who is now the editor of ASME journal of Mechanical Design. Currently there are six associate editors for Mechanisms in JMD : Kazem Kazerounian, Vijay Kumar, Gregory Scott, Clement Gosselin, Carlo Innocenti and Charles Wampler II. The last four have recently started their terms.

The Mechanisms Committee in June 1997 adapted major changes in its bylaws. A significant change in the organizational structure is the establishment of a Mechanisms executive Committee of five that leads the Mechanisms General Committee of 15 members. The details of the new bylaws can be found at <http://helix.gatech.edu/MechanismsCommittee>.



Kazem Kazerounian / kazem@engr.uconn.edu / April 17, 1998

Power Transmission & Gearing Announces DETC '98 Program

David G. Lewicki, Ph.D.

The Power Transmission and Gearing (PTG) Committee decided to participate in the 1998 Design Engineering Technical Conference (DETC). The PTG Committee traditionally sponsors an international conference every four years, with the last conference in 1996. It was decided to participate in the 1998 DETC with the goal of increasing U.S. participation in our area.

Nineteen papers were accepted (not bad considering the call-for-papers was sent out in November of 1997) in the areas of gear geometry, design, dynamics, diagnostics, and manufacturing. Papers were received from many new faces and we look forward to an interesting conference.

Congratulations to Jon Mancuso of Kop-Flex Corporation as our newly elected Vice-Chairman of the PTG Committee. Jon will assist Neil Anderson, our current Chairman, in duties both with committee business and in organizing the next Power Transmission and Gearing international conference in 2000.



David G. Lewicki / David.G.Lewicki@lerc.nasa.gov March 20, 1998

RSAFP Organizes Joint Conferences

Erol Sancaktar, Ph.D.

The Reliability, Stress Analysis & Failure Prevention (RSAFP) committee elected a new chair, Dr. Erol Sancaktar, a professor of Polymer Engineering at the University of Akron. Dr. Sancaktar took over the chair duties from Prof. Lola Boyce of the University of Texas at San Antonio during the committee meeting held at the IMECE '97. Dr. Sancaktar's term as the associate editor of the *Journal of Mechanical Design* is expiring early this year. Dr. Shahriar Jahanian of Temple University has been elected by the RSAFP committee as the candidate for new associate editor.

The RSAFP committee jointly organized the 51st meeting of the Society for Machinery Failure Prevention Technology (MFPT), and the 12th Biennial Conference on Reliability, Stress Analysis and Failure Prevention, which was held April 14-18, 1997 at Virginia Beach. The theme of this conference was "A critical Link: Diagnosis to Prognosis". The RSAFP program was organized by Dr. Jahanian. A total of 105 papers were presented during the five day conference along with several one day courses taught. This conference was jointly sponsored by the ONR, U. S. Army Research Laboratory, Naval Surface Warfare Center, and NASA.

The RSAFP committee has been participating in the IMECEs since 1994 with an average of four sessions per conference. During IMECE '97 the program organized by Dr. Sancaktar had the following session topics: Adhesive Joining, Bolted Connections, Composites Design, and Smart Materials, Adaptive Systems. A total of 18 papers were presented.



Erol Sancaktar / erol@uakron.edu / March 18, 1998

Technical Committee on Vibration and Sound News

Kon-Well Wang, Ph.D.

TCVS Spring Elections

The TCVS committee met in Chicago on March 16, 1998. Five new members were elected to replace old members. New officers were elected as well. The new officers are:

Chair

Prof. Subhash Sinha (Auburn University)

Vice Chair

Prof. Chin An Tan (Wayne State University)

Secretary

Prof. Ray Han (University of Iowa)

They will serve for two years starting July 1, 1998.

TCVS Activities at 1998 International Mechanical Engineering Conference and Exhibition

TCVS will be sponsoring two symposia at the 1998 IMECE: Dynamics, Acoustics, and Simulations, and Active Control of Vibration and Noise. The sessions are well organized. Coordinator of this event is Prof. W. Clark from University of Pittsburgh.

TCVS at the 1999 Design Engineering Technical Conferences

Prof. Subhash Sinha (Auburn University) will be chairing the Design Engineering Technical Conference (DETC) as well as the Biennial Vibration Conference in 1999. The location of the conferences will be in Las Vegas. A web site has been established at <http://www.eng.auburn.edu/detc99>

TCVS to Host 2001 Design Engineering Technical Conferences

In 2001, the DETC and the Vibration Conference will be chaired by Prof. Dean Mook (Virginia Tech.). The location will be in Pittsburgh.



Kon-Well Wang / kwwang@psu.edu / May 30, 1998

Vehicle Design Reorganizes

Moustafa El-Gindy, Ph.D.

Committee Interests

The newly reorganized Vehicle Design Committee is seeking members with any of the following interests:

- Automotive engineering and design
- Heavy vehicle system dynamics
- Modelling and simulation
- Passive and active suspension control systems
- Field and laboratory testing
- Stability and controllability
- Roll dynamics
- Performance standards
- Hill climbing capability
- Man/vehicle interaction (ergonomics)
- Power train and braking systems
- Tire characteristics
- Vehicle-road interaction dynamics
- Ride quality
- Collision avoidance
- Occupant crash protection
- Computer-based design methods for heavy commercial vehicles and components
- Neural networks and fuzzy logic applications to vehicle dynamics and transportation systems
- Vehicle dynamics and control and tire modelling
- Intelligent highway/train vehicle systems

Interested potential members are encouraged to contact:

Moustafa El-Gindy, Chair
Pennsylvania Transportation Institute
The Pennsylvania State University
201 Research Office Building
University Park, PA 16802
Phone: (814)863-7930
FAX: (814)865-3039
Email: mxe15@psu.edu

Vehicle Design Committee Announces New Chair

The Vehicle Design Committee's new Chair, Dr. El-Gindy, is the Executive Editor of the *International Journal of Heavy Vehicle Systems*, series of the *International Journal of Vehicle Design*. He is currently full time faculty at Pennsylvania Transportation Institute and Graduate School Faculty Member at Pennsylvania State university since August 1997 and a former Senior Research Officer at the National Research Council of Canada (NRCC) since 1988 till 1997. He was formerly on governmental loan to the Turner-Fairbank Highway Research Centre of the Federal Highway Administration (FHWA) from 1996 to 1997.

Current Members of the Vehicle Design Committee

Professor Jeffrey Freeman
Department of Mechanical Engineering
The University of Iowa

Dr. Scott Kimbrough
Vice-President
Motion Research Associates

Professor J.Y. Wong
Department of Mechanical and Aerospace Engineering
Carleton University, Canada

Professor S. Rakheja
Department of Mechanical Engineering

Concordia University, Canada

Dr. Thomas D. Gillespie
Director, Great Lakes Centre for Truck Transportation Research
The University of Michigan
Transportation Research Institute (UMTRI)

Professor Donald Strite
Pennsylvania Transportation Institute
The Pennsylvania State University

Professor Farid Amirouche
Department of Mechanical Engineering
University of Illinois at Chicago

Professor Imtiaz Haque
Department of Mechanical Engineering
College of Engineering & Science
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Moustafa El-Gindy / mxe15@psu.edu / June 2, 1998



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International Dec 17,
01:49 PM EST

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01:33 PM EST

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Call for Papers! 7th International Fuel Cell Science, Engineering & Technology Conference

Newport Beach, CA - June 8 - 10, 2009

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Call for Papers! ASMEPOWER 2009

Albuquerque, NM – July 21-23, 2009

The due date for Abstracts is now January 15, 2009. The meeting will be held at the Hyatt Regency Albuquerque. This is the conference for technical professionals that design, build, operate, overhaul and maintain power plants, or do power plant and equipment R&D.

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- 2007 Proc of the ASME Intl Mech Engrg Congress & Exhibition: Vol 13 Processing & Engrg Applications of Novel Matls
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