It is my great honor and privilege to serve as the Chair of the Design Engineering Division (DED) for 2013-2014. The DED is the largest technical division in the American Society of Mechanical Engineering (ASME), with a primary membership of close to 11,700, nearly 70% of the Systems and Design Group. It also represents one of the most relevant divisions in ASME with an impressive array of activities addressing the art, science, and application of design engineering to manufacturing, robotics and automation, energy, health, and other grand challenge problems.

The mission of DED is to develop, promote, encourage, and support our members and technical committees in their quest for technical excellence and professional success in their respective fields, and to provide necessary processes and mechanisms to spawn new initiatives and identify emerging technologies through technical meetings, publications, and member interest activities. The thirteen technical committees [TCs] are the strong pillars of the DED. TC activities are carried out by the volunteering services of many members and leadership teams that belong to each TC. During the past year, the DED allocated $100k from the custodial account to support special TC initiatives that have the potential to create new opportunities for engaging the community, dramatically raise the visibility of the DED, and significantly increase participation in DED activities. In the coming years, the DED will continue its support to TC activities that are consistent with the DED mission such as increasing industry participation and global presence, reaching out to K-12 students and teachers, and improving member experiences.

The flagship event of the DED each year is the IDETC (International Design Engineering Technical Conferences), jointly held with the conference sponsored by the Computers & Information in Engineering (CIE) division. IDETC/CIE has become a premier international meeting for Design Engineering researchers and practitioners, with sessions devoted to cutting edge research, workshops, tutorials, and exhibits. This year’s IDETC/CIE was held August 4-7, 2013 in Portland, Oregon. Next year’s IDETC/CIE will be held August 17-20, 2014 in Buffalo-Niagara, NY. In addition to the IDETC, the technical committees also sponsor sessions at the ASME International Mechanical Engineering Congress (IMECE) each year.

Activities of Technical Committees are supplemented by the work from DED Standing and Special committees to address the current and emerging issues of DED, improve member experiences, and help DED stay connected with the outside world. The Committee on Broadening Participation of Women and Minorities organized five successful workshops at IDETC each year during 2009-2013. The Committee on Student Affairs and Early Career Development has strived to integrate students and early career professionals into the ASME community.

The success of any technical division is based on the scholarly contributions of its members, collected in the form of journal papers. The DED currently sponsors six journals including four sole-sponsored journals and two jointly sponsored ones with other divisions. We would like to thank Professors Ahmed Shabana, Shapour Azarm, Michael McCarthy, Noel C. Perkins, Bahram Ravani, Arthur Erdman and Gerald Miller for serving as the chief editors of these journals.

One of the most active missions of the DED is to recognize the outstanding research, education, and engineering accomplishments of members of the design engineering community through its vibrant awards program. There are currently up to twenty-eight awards given out within DED during any two-year period, including four Society-level awards, two Division-level awards, six Division/Committee-level awards, and sixteen Committee-level awards. During the past year, a new DED Awards Nomination Committee was established by the DED chair including representatives from all TCs. This resulted in a significant increase in nominations compared to previous years.

A new DED division award entitled “Thar Energy Engineering Design Award” was established with the sponsorship from Thar Energy LLC. This Award, beginning in 2014, will recognize individuals who have made significant contributions to the design research, innovations and product design in the area related to energy engineering.

The Executive Committee of the DED plays a leadership role in the DED and is formed by eight elected members. I am grateful for the outstanding job they are doing and will continue to do through this coming year. The many new initiatives DED launched have positioned the division well for success. We are grateful for the support provided by Mike Ireland, the Managing Director of Engineering Research and Technology Development; and Randy Reagan, Director of Engineering Knowledge; and the everyday supports we have been receiving from Mary Jakubowski (program manager) and Jovita Frederick (administrator).

If you haven’t participated in the DED’s activities, I encourage you to take a look at our web site [https://community.asme.org/design_engineering_division/default.aspx] and come to our conferences, and above all, get involved in one or more activities. As we go forward, I would welcome your suggestions on how we can improve our division and the society, how to recruit members with the best ideas to leadership positions within the division, and how we can help you implement your ideas.
Past Chair of Design Engineering Division

Vijay Kumar

It is a great privilege and honor to have served as the Chair of the Design Engineering Division (DED) for 2012-13. I continue to serve as the past chair this year.

The state of the DED is excellent, both financially and in terms of the level of engagement and the relevance of professional activities. This is, in large part, due to the organization of the division and the commitment of our volunteers. The Division now has 13 technical committees, each with its own fund – with many of these committees larger than many other technical divisions in ASME. This is done by means of an extensive system of sub-accounts within the DED custodial account. The Division designates a portion of funds generated by technical committee activities for use by the committee responsible for generating the funds. Indeed, the best results are obtained by empowering the technical committees, which represent the intellectual foci in our division, and that is why the division has done so well. The strong fiscal health of the DED is the direct result of the hard work and inspiration of the many volunteers amongst you.

DED has embarked on a long-range strategic plan to further strengthen the division and the technical committees. A DED retreat on August 4, 2013, co-sponsored by the society and the division, led to excellent discussions between the DED and ASME leadership and new and exciting ideas to pursue in the coming years. We are already working on creating more opportunities for members to participate in leadership roles in the division.

There are many challenges for the division that will need to be addressed in the coming years. Each of these challenges present opportunities for you, as volunteers, to get involved in administration and leadership. A new targeted budget system has been introduced by the ASME Board of Governors and this requires the division and the technical committees to bear a greater fraction of expenses incurred by the society. The DED by-laws and operating procedures need revision. The division needs to pay more attention to communications. Our website is inadequate and we do a poor job in reaching out to new constituencies. While we are the biggest division, the growth rate for the division is not particularly impressive.

In the coming year, as chair of the nomination committee, I will be reaching out to you to help serve in important roles in the executive committee and as members of standing committees. I hope you will respond to this request and to the challenges we face as a division.

I wish you all a productive year, and hope to see you next year at the IDETC in Buffalo, New York.

Report on DED Technical Committees

Chris Rahn
Technical Committee Executive

As the largest technical division in ASME, the long-lasting success of the Design Engineering Division (DED) has been driven by the active participation of its members from various DED technical committees. The DED sponsors thirteen different technical committees (See table) that promote research and dissemination of knowledge in a wide range of areas related to engineering design. The primary activities of the technical committees are organization of conferences through which the community shares the latest research results and presents tutorials on topics of interest; support of technical journals; and recognition of individuals who have made outstanding contributions in research, education, or service to the engineering design community.

This year, DED requested proposals from the technical committees for new initiatives in a new program designed to encourage and reward innovation. The goals were to create or enhance opportunities to engage the community, dramatically raise the visibility of the DED, and/or significantly increase participation in DED activities. Proposals were considered in three main topic areas: New activities, broadening participation, and publicity. Six proposals were selected for funding that initiated new awards, workshops, student design competitions, and conferences.

This past year has seen a great deal of conference organizing activity within the division’s committees. The primary conferences in which the committees participate are the IDETC (in which each committee sponsors or co-sponsors a conference) and the International Mechanical Engineering Congress and Exposition (IMECE). The DED technical committees also participated in many other conferences throughout the year.

One of the most gratifying activities for committee members is the opportunity to recognize researchers, innovators, and educators who have made significant contributions to the field. The technical committees sponsor a wide variety of awards each year, from best paper awards at conferences to young investigator awards to lifetime achievement awards to service awards. Currently there are over twenty different awards presented by technical committees. Several new awards have been established in recent years, such as the C. D. Mote, Jr. Award for Young Investigators sponsored by TCVS and student best paper awards.

In addition to committee organizing activities such as revising bylaws, establishing operating procedures for its subcommittees, and electing new executive committee members, each technical committee has continued to work on the aspects of increasing the level of participation of its members, the visibility of the committee, and strengthening the relations with industry. Whether you work in industry, government, or academia, participating in a technical committee is a great way to get involved in the Design Engineering Division.
The annual International Design Engineering Technical Conferences (IDETC), held concurrently with the Computers and Information in Engineering Conference (CIE), sponsored by the ASME Computers and Information in Engineering Division, is the premier event of the ASME Design Engineering Division. The meeting offers unique opportunities for research dissemination, professional networking, and technical exchange in all areas of engineering design, simulation, analysis, and testing. This international conference brings together leading experts from academia, industry, and research laboratories from across the globe with student researchers who, in turn, offer the promise of future excellence and service to the needs of the world.

The 2013 ASME IDETC/CIE meeting was held in Portland, Oregon, in the scenic Pacific Northwest of the United States, at the intersection of the Columbia and Willamette rivers, and within a short driving distance to spectacular scenery, deep ravines, and towering volcanic mountains, as well as the oldest public rose garden in the US with thousands of roses on display from more than 500 varieties. Conference participants were treated to a free rail pass for the duration of the meeting to get easy access to local dining, entertainment, and sightseeing. The conference reception, held at the Jeld-Wen Field, home of the Portland Timbers of the US Major Soccer League, featured such local traditions as performances by the contemporary folk and bluegrass band, Twisted Whistle, the gravity-defying and elegant acrobatics of Pendulum Aerial Arts, and tours of the stadium. In addition, the 25th Anniversary Party for the Design Theory and Methodology conference was celebrated with a dinner cruise aboard the Willamette Star.

The technical program featured 13 subconferences, including the 15th International Conference on Advanced Vehicle and Tire Technologies (AVT), the 33rd Computers and Information in Engineering Conference (CIE), the 39th Design Automation Conference (DAC), the 10th Symposium on International Design and Design Education (DEC), the 18th Design for Manufacturing and the Life Cycle Conference (DFMLC), the 25th International Conference on Design Theory and Methodology (DTM), the 37th Mechanisms and Robotics Conference (MR), the 2013 ASME/IEEE International Conference on Mechatronic and Embedded Systems and Applications (MESA2013), the 7th International Conference on Micro- and Nanosystems (MNS), the 9th International Conference on Multibody Systems, Nonlinear Dynamics, and Control (MSND), the 12th ASME Power Transmission and Gearings Conference (PTG), the 22nd Reliability, Stress Analysis, and Failure Prevention Conference (RSAFP), and the 25th Biennial Conference on Mechanical Vibration and Noise (VIB). The 2013 conference featured close to 250 concurrent technical sessions with around 1,000 technical presentations, the conference featured keynote lectures on micro and nanorobtics, the mathematics of origami, micrometrology and mechanismology, dynamics of complex engineering systems, fractional analysis, robust control design, instability and indeterminacy, multibody system dynamics, computer-aided design, vehicle dynamics, torsional vibration absorbers, and self-excited vibrations. As an alternative to presentations of technical papers, a total of ten panel sessions were held under the auspices of the different subconferences, including topics of industry-academic collaboration, best practices in design education, global trends in manufacturing, and the National Robotics Initiative. In addition, the conference hosted an inaugural forum on “Groundbreaking Research in Engineering Design: Fueling Growth in Emerging Markets,” highlighting cutting-edge research initiatives on engineering design for critical infrastructure in developing countries, and including a keynote on inventing and commercializing technologies for the poorest two billion.

On the lower level of the conference venue, the Oregon Convention Center at the edge of the Lloyd District and off of the Willamette river, exhibits by the conference sponsors Leica, Springer, Haption, ProMark, Pacific eMotion, and Taylor & Francis provided attendees with information about haptic device technology, imaging products, telepresence robotics, and academic publishing. When not partaking of Portland Roasting Coffee’s fragrant concoctions, attendees could also admire and be inspired by the 120’ Principia, the world’s largest Foucault pendulum, suspended above a 40’ halo of gilded rays and a blue floor depiction of an imaginary solar system, and a testament, if we needed it, that she doth indeed spin.

The around 1200 conference attendees included close to 400 students who explored design and creativity as part of a student networking luncheon, in which the most ingenious ideas for cyberphysical designs that would benefit the attendees at the 2014 IDETC/CIE were awarded with generous gift cards from a variety of Portland dining locations. Student participation was further encouraged by subconference-sponsored best paper, robot design, and research poster competitions, as well as the NSF/ASME student design essay competition that included three winners in the undergraduate category and seven winners in the graduate category. Additional IDET/CIE society, division, and committee-level awards were presented as part of the DED Awards luncheon, which filled one of the convention center ballrooms and inspired participants through recognitions awarded for eminent accomplishments across all aspects of engineering design, including research, teaching, product design, and diligent professional service. Finally, a large number of technical committee and division-level meetings were held at the conference venue, providing opportunities for the community to lay the course for future meetings and other ASME-related activities and initiatives.

The core organizing committee, consisting of General Conference Co-Chairs Harry Dankowicz and Dane Quinn, Technical Program Co-Chairs Edward Berger and Walter Lacarbonara, Workshop Chair YangQuan Chen, Student Activities Technical Chair Scott Ferguson, Local Organizing Chair Robert Stone, and Industry Relations Chair Justin Seipel, was gratified by the support received from ASME staff, notably Mary Jakubowski, Jovita Frederick, and Angeline Mendez, as well as the countless volunteers at the subconference level whose commitment to a state-of-the-art, high-quality conference program, as well as to their respective technical communities, made it all possible. With people like that on your team, the sun will shine upon your face and the wind will always be at your back.
Journal Activity Reports

**DESIGN ENGINEERING DIVISION JOURNALS**
- Journal of Computing and Information Sciences in Engineering
- Journal of Computational and Nonlinear Dynamics
- Journal of Mechanical Design
- Journal of Mechanisms and Robots
- Journal of Medical Devices
- Journal of Vibration and Acoustics

**JOURNAL OF COMPUTATIONAL AND NONLINEAR DYNAMICS**
Ahmed A. Shabana, Editor

The Journal of Computational and Nonlinear Dynamics (JCND) is a quarterly journal that provides a forum for the exchange of new ideas and applications in computational rigid and flexible multi-body system dynamics and all aspects (analytical, numerical and experimental) of dynamics associated with nonlinear systems. The term of the Associate Editor Aki Mikkola ended on December 30, 2012. I would like to thank Aki for his significant contributions to the journal. His efforts and dedicated service are very much appreciated. This year, three Associate Editors have been reappointed, Stefano Lenci of Politecnico University of Marche, Italy; Dane Quinn of University of Akron, U.S.A; and Ahmet Yigit of Kuwait University, Kuwait. I look forward to continue working with them. I encourage you to choose JCND as the medium of dissemination of your research if it falls within the scope of the journal. All manuscripts must be submitted electronically through the ‘journal tool’ of ASME. Please take a look at the journal web site www.asmedl.org/JND. JCND is indexed in – Science Citation Index Expanded, Journal Citation Reports/Science Edition and Current Contents/Engineering Computing and Technology starting from the very first issue of January 2006. The Editor and Associate Editors of JCND are committed to a fair and rapid review process of the papers submitted to the journal. Please contact me directly if you have any comments or suggestions. I would like to take this opportunity to thank all Associate Editors, reviewers, and members of the ASME Design Engineering Division and ASME Publication Department for their support.

**JOURNAL OF MECHANICAL DESIGN**
Azarm Shapou, Technical Editor

The ASME Journal of Mechanical Design (JMD) was started in 1978 by the Design Engineering Division. Up until 2003, JMD was published quarterly. As the number of submissions increased, JMD moved to bi-monthly publication in 2004 and to monthly publication in 2007. I am pleased to announce that the Journal published its 200th issue in June 2013 (http://asmejmd.org). JMD serves the broad design engineering community as a venue for scholarly, archival research in all aspects of the design activity. JMD has traditionally served the ASME Design Engineering Division and its technical committees, but it welcomes contributions from all areas of design with emphasis on synthesis. Example topics include: (1) Design automation, including design representation, virtual reality, geometric design, design evaluation, design optimization, risk and reliability-based optimization, design sensitivity analysis, system design integration, ergonomic and aesthetic considerations, and design for market systems, (2) Design of direct contact systems, including cams, gears and power transmission systems, (3) Design education, (4) Design of energy, fluid, and power handing systems, (5) Design innovation and devices, including design of smart products and materials, (6) Design for manufacturing and the life cycle, including design for the environment, DFX, and sustainable design, (7) Design of mechanisms and robotic systems, including design of macro-, micro- and nano-scaled mechanical systems, machine components, and machine system design, and (8) Design theory and methodology, including creativity in design, decision analysis, design cognition, and design synthesis.

The connecting thread among these topics is the emphasis on design, rather than just analysis. Design scholarship is based on careful analysis models, whether physical, computational, or behavioral, and has design intent: creating something in the physical world we live in, rather than just analyzing what is happening in it.

The Journal had a record number of 556 submissions in 2012. In the last few years, the average number of months from submission to Technical Editor’s decision was 5.19, including the time for author’s revisions and review of revisions. The average review time, including the time for review of revisions, was 4 months. The Journal has made a commitment to reduce the average review time to within 3 months.

The Journal currently has 25 associate editors. Out of these, the term of 14 will end in 2015, 4 in 2014, and 7 in 2013. Three new associate editors assumed duties in July 2013. The Journal had a special issue in October 2012 in the area of Design under Uncertainty with Wei Chen, Chris Paredis and Irem Tumer as Guest Editors. A special issue on Origami and Tessellation in Design with Alex Slocum, Larry Howell and Mary Frecker as Guest Editors is planned for publication in November 2013. A special issue on Bio-Inspired Design with Ashok Goel, Dan McAdams and Rob Stone as Guest Editors is planned for 2014 with the submission deadline of January 15, 2014.

**JOURNAL OF MEDICAL DEVICES**
Arthur G. Erdman, Co-Editor
Gerald E. Miller, Co-Editor

The Journal of Medical Devices (JMED) is entering its 7 year with Co-Editors Dr. Arthur Erdman, U of Minnesota and Dr. Gerald Miller, Virginia Commonwealth University. This journal offers an important opportunity to our biomedical and design community to describe innovative devices used in the clinic and the laboratory.

Papers in this Journal focus on applied research and development of new medical devices or instrumentation. The Journal publishes papers on devices that improve diagnostic, interventional and therapeutic treatments. Of particular interest are novel devices that allow new surgical strategies, new methods of drug delivery, or other devices that are intended to reduce the complexity, cost, or adverse results of health care. Significant biomechanical, clinical, or engineering content is expected. The Design Innovation paper category is encouraged for reporting about novel devices for which there may be less extensive clinical or engineering results.

Papers are invited for submission to the Journal of Medical Devices in the following suggested categories: new medical sensors/actuators, orthopedic devices, cardiovascular devices, rehabilitation devices, neurological devices, bioheat transfer devices, medical instrumentation, image guided intervention/treatment, endoscopic/ laparoscopic devices, minimally invasive
devices, human performance/force assessment, tissue engineered devices, drug/cell delivery systems, medical robotics, medical device design processes, medical device manufacturing, human factors in medical devices, and sports biomechanics related to devices.

The Journal takes advantage of the annual Design of Medical Devices Conference (DMD) www.dmd.umn.edu and its review process. In 2013, 95 two page technical briefs were published in the June and September ‘13 issues based on accepted submissions to the 2013 DMD Conference. New this year, the Journal will be publishing abstracts from the ASME 2013 Frontiers in Medical Devices conference. The December 2013 issue will mark seven full years of this Journal. Subscribers to this journal number over 1,200. We encourage you to submit a paper or subscribe to the journal.

JOURNAL OF VIBRATION AND ACOUSTICS
Noel Perkins, Editor

I am delighted to offer this summary of the status and recent initiatives for the Journal of Vibration and Acoustics. We substantially raised the visibility of JVA by launching our electronic newsletter The Latest Vibe, which is now in its second year. This newsletter, mailed to over 5000 recipients, provides immediate access to the JVA table of contents, a top ten list of our most cited papers, and announcements of ASME-sponsored conferences and events related to our field. Our journal again saw a record number of submissions last year and we’re poised for a new record (likely over 400 submissions) this year. In response, we’ve (again) increased the number of pages published annually to 1000 pages. Later this year we will publish the much anticipated special issue on The Dynamics of Phononic Materials and Structures led by Mahmoud Hussein (Univ. Colorado – Boulder) and Massimo Ruzzene and Michael Leamy (Georgia Tech). Stay tuned for forthcoming special issues of JVA as well as a future collaborative issue of the ASME Applied Mechanics Reviews (AMR) created in partnership with AMR Editor, Harry Dankowicz. Finally, the impact factor for JVA has risen markedly during the past two years and is now 1.268 for 2012 (most recent reporting year).

My assistant Ms. Kimberly Conklin and I are aided by a highly dedicated group of Associate Editors (AEs) whose service to the journal is deeply appreciated. We would like to highlight the following Associate Editors who completed their editorial services: Drs. Michael Brenan (Univ. Southampton), Wei-Hsin Liao (Chinese University Hong Kong), Ranjan Mukherjee (Michigan State Univ.), and Jean Zu (Univ. Toronto). We owe a debt of gratitude to Michael, Wei-Hsin, Ranjan and Jean who all served our journal with distinction. During the past year, we extended the appointments of the following AE’s for a second three-year term: Drs. Philip Bayly (Washington Univ.), Liang-Wu Cai (Kansas State Univ.), and Yukio Ishida (Nagoya Univ.). During 2012, the following AE’s were nominated, approved and appointed to their first three-year term: Drs. Olivier Bauchau (Univ. Michigan-Shanghai Jiao Tung Joint Inst.), Kenneth Cunefare (Georgia Tech), Mary Kasarda (Virginia Tech), Patrick Keogh (Univ. Bath), Michael Leamy (Georgia Tech), and Corina Sandu (Virginia Tech). Given the increased number of submissions, several more Associate Editors will join our staff towards the end of this year.

Most important, we thank all of our authors, reviewers and readers for their efforts in supporting the Journal. We encourage you to submit your original research findings to JVA as the journal of choice for the fields of vibration and acoustics. Please feel free to contact me with your ideas and suggestions of how we can further improve this already vibrant journal.

Committee Reports

DESIGN AUTOMATION (DAC)
G. Gary Wang, Committee Chair

The DAC promotes research and disseminates knowledge, methods, and tools in four key areas related to Design Automation: [1] Design Representation, [2] Design Optimization, [3] Design Evaluation, and [4] Design Integration. For the 2013 ASME IDETC held in Portland, Oregon, 142 papers were submitted to the 39th Design Automation Conference and 116 papers were accepted. The accepted papers were presented in 25 technical sessions. The Ford Motor Company Best Paper Award went to Zhimin Xi, Rong Jing, Pingfeng Wang, and Chao Hu for their paper titled “A Copula-based Sampling Method for Data-driven Prognostics and Health Management.” Our DAC Keynote Speaker Dr. Dan Braha, Professor at the University of Massachusetts, Dartmouth, and a co-faculty of the New England Complex Systems Institute (NECSI) in Cambridge, MA, gave an exciting lecture on modeling complex dynamic systems. Prof. Michael Yu Wang from the Chinese University of Hong Kong was the recipient of the 2013 Design Automation Award and Prof. James Allison from University of Illinois at Urbana Champaign received the 2013 DAC Outstanding Young Investigator Award.

Dr. Michael Kokkolaras (McGill University) was elected to serve on the Executive Committee as the Special Sessions Paper Chair for the 2014 ASME IDETC - Design Automation Conference in Buffalo, NY. He will join Committee Chair Dr. Horea Ilies (University of Connecticut), Conference Chair Dr. Matt Parkinson (Penn State University), Program Chair Dr. Carolyn Seepersad (University of Texas, Austin), and Industry Liaison Dr. Julian Norato (Caterpillar). Dr. G. Gary Wang (Simon Fraser University, BC) serves as the Committee’s Past Chair. Dr. Horea Ilies also maintains the websites for our conference and committee: cdl.engr.unc.edu/asm-eda.

Last year, DAC started the rebranding initiative to reflect the achievements of DAC and more importantly to plan for the growth of DAC to deepen and widen its impact to both academia and industry. Focus group survey and online meeting have been conducted throughout the year, and a strategic workshop has been held in Portland during the conference. This initiative is expected to lead to action plans in years to come.

We are looking forward to the 2014 ASME IDETC Design Automation Conference in Buffalo, NY, and invite companies interested in state-of-the-art design automation methods and tools to attend. Benefits include seeing the state-of-the-art in design automation research, opportunities to dialogue and collaborate with academic researchers and vendors, and access to outstanding students from top universities.
DESIGN EDUCATION (DEC)
Mike Keefe, Committee Chair

The Design Education Committee (DEC) is focused on the teaching of design and is interested in the educational aspects of design as promoted by Engineering Design educators, as well as the other Design Engineering Division (DED) technical committees.

This year marked the 10th anniversary of our International Conference on Design Education (ICDE) participating in the International Design Engineering Technical Conference (IDETC). At IDETC 2013, our Conference, led by Conference Chairman Robert Nagel and Program Chairman Jitesh Panchal, included three strands of paper topics that fell under the broad design-education umbrella: 1) Scholarly Research in Design Education, 2) Student Engagement in Design Education, and 3) Best Practices in Design and Design Education.

Specific topic areas highlighted innovation and creativity, best practices in design education, collaborative teams, assessment of student learning, capstone, and application of design methods in engineering education. There were 30 final papers with the ‘best paper’ award going to Sharad Oberoi, Susan Finger, and Eric Rose for their paper, “Online Implementation of the Delta Design Game for Analyzing Collaborative Team Practices.” Along with the six paper sessions, there were two panel discussion sessions: “Evaluating the Faculty of the Future” and “Industry Perspectives on Preparing a New Generation of Engineers.” Design education continues to be an area of strong interest as evidenced by session attendance averaging well over thirty with particularly strong interest in both panel sessions; there was also strong international interest with ~20% of the papers presented by authors from outside the continental United States. We look forward to IDETC2014 and the 11th ICDE that will be led by Jitesh Panchal as Conference Chairman and Linda Schmidt as Program Chairwoman.

The DEC proposal to encourage professional design activities among our newly graduating engineers was successfully reviewed by the Design Engineering Division. Called “Designing for the Future,” this capstone design-related competition will allow students to utilize their culminating undergraduate design work in a national forum thus providing incentive to continue in design and become researchers, educators, and professional design practitioners of the future. The kick-off meeting was held prior to the IDETC 2013 sessions and announcements and publicity information will be forthcoming. Please help us by spreading the word to the undergraduate community concerning this exciting new initiative.

We continue to encourage authors to submit high quality manuscripts related to design education research to the Journal of Mechanical Design and appreciate the DEC’s commitment with an Associate Editor specifically representing the design education community. The DEC members are also very interested in STEM and K-12 efforts. We continue to promote participation in both an individual’s related research technical committee at the IDETC and the DEC conference; educational methods should evolve synergistically with the emerging design engineering theory and practice. Accordingly, we continue to encourage a broader participation in the DEC through these collaborative efforts.

Our current Executive Board includes: Chairman: Michael Keefe, keefe@ude.edu; Vice Chairman: Zahed Siddique, zsid@md.edu; Associate Vice Chairman and Chairman of International Activities Subcommittee: Dirk Schaefer, dirk.schaefer@me.gatech.edu; Past Chairman: Jeffrey Mountain, mounta1@norwich.edu; Secretary: Christopher Williams, cwhilliams@vt.edu; Treasurer: Richard Goff, richgoff@vt.edu; and K-12 Outreach: Kathy Jacobson, kathyj;jacobson@lmco.com.

DESIGN FOR MANUFACTURING AND LIFE CYCLE (DFMLC)
Shun Takai, Committee Chair

The primary activity of the Design for Manufacturing and the Life Cycle Technical Committee (DFMLC TC) is organizing the DFMLC Conference as a part of the ASME International Design Engineering Technical Conferences. It has become a primary international forum for the exchange of technical and scientific information on the theory and practice of design for manufacturing and life cycle engineering methods. Derrick Tate (Conference Chair – Texas Tech), Fu Zhao (Program Chair – Purdue), and Karl Haapala (Special Session Chair – Oregon State) organized the 2013 DFMLC Conference, which resulted in 48 papers presented in 10 sessions.

In recent years, conference organizers have worked to increase the scope of the papers presented, especially in the areas of design for environment and other life cycle engineering concerns. This year, there were substantial submissions in the area of sustainable design, which resulted in three separate sessions and 15 papers on that topic. The DFMLC TC hosted two panel sessions — Entertainment Engineering organized by John Wesner (Adjunct Professor at Carnegie Mellon) and Global Trends in Manufacturing organized by Karl Haapala and Jeff Mason (President at Integrated Facility Services, LLC of Portland, OR) — and co-hosted one panel session on Advanced Manufacturing with Mechanisms and Robotics Technical Committee.

Dr. Karthik Ramani (Purdue University) was honored as the third recipient of the DFMLC Ishii-Toshiba award. This award is given to recognize the sustained meritorious contributions to the use of optimization and other modeling techniques to support design, manufacturing and the life cycle management decisions in product development. It was established in memory of the late Kosuke Ishii, a professor of mechanical engineering at Stanford University. If you are aware of candidates that meet the above criteria, please consider nominating them. Their nomination package will remain in active consideration for a three year period.

As we look to the future, the DFMLC TC seeks to continue to be an important avenue for disseminating research into sustainable design, as well as to continue to foster international collaborations in support of research efforts in design for manufacturing and life cycle engineering. In addition, we seek to increase industry participation, so that we, as a research community, are more meaningfully engaged in addressing the technical problems that are relevant to industry. Lastly, we have been researching our roots and encourage any past DFMLCers, to reach out and reconnect with us!

We welcome you to the 2014 DFMLC Conference in Buffalo, New York, for which Fu Zhao (Purdue) will be the conference chair and Karl Haapala (Oregon State) will be the program chair. The new Special Sessions Chair will be selected for the 2014 IDETC/CIE. The DFMLC Technical Committee officers for 2013-2014 are Gail Kremer (Chair – Penn State), Qingjin Peng (Vice-Chair –
University of Manitoba), and Derrick Tate (Secretary – Texas Tech). For more information, please contact Shun Takai (2012-2013 DFMLC TC Chair) at stakai@niu.edu.

MECHANISMS & ROBOTICS (M&R)
Pierre Larochelle, Committee Chair
The ASME Mechanisms and Robotics (M & R) Committee has the mission of promoting advances in research and education in the theory, design and applications of mechanisms, machines, robots and mechatronics systems. Areas of interest include: kinematics and dynamics of mechanisms, analysis of robotic systems, design of cams, gears, transmissions, and linkages, bio-inspired machines, mechatronics, compliant mechanisms, and micro and nano machines. Our flagship conference is the annual Mechanisms & Robotics (M & R) Conference, which is one of the largest conferences in the annual ASME International Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering (CIE).

The 2013 Mechanisms & Robotics (M & R) Conference was organized by Tom Sugar (Conference Chair) and David Cappelleri (Program Chair). This year’s conference included a new Symposium on Origami that attracted the world leaders in this emerging and hot research area. Our Conference featured two inspiring keynote addresses: Dr. Brad Nelson’s Micro and Nano Robotics and Dr. Robert J. Lang’s From Flapping Birds to Space Telescopes: The Mathematics of Origami.

A number of awards were also presented to recognize excellence within the community. During the Honors and Awards Symposium, Dr. Steven Dubowsky received the prestigious DED Mechanisms & Robotics Award for his lifetime contributions to our research community. The Best Paper Award was received by Kazuya Saito, Sergio Pellegrino, and Takeotshi Nojima for their paper Manufacture of Arbitrary Cross-Section Composite Honeycomb Cores Based on Origami Techniques. The Freudenstein/GM Young Investigator Award was awarded to the paper Assured Safety Drill with Bi-Stable Bit Retraction Mechanism authored by Paul M. Loschak, Kechao Xiao, Hao Pei, Samuel B. Kesner, Ajith J. Thomas, and Conor J. Walsh. The Compliant Mechanisms Award was given to: Justin Berez, Shanya Awat, A. John Hart for their paper Extensible-Link Kinematic Model for Determining Motion Characteristics of Compliant Mechanisms. A number of student awards were also presented to winners of the ASME Student Mechanism and Robot Design Competition.

The 2014 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC & CIE) will take place in Buffalo, NY August 17-20 and is being organized by two members of the M & R community: Venkat Krovi (General Conference Chair) and Tom Sugar (Program Chair). The 2014 IDETC & CIE includes the 2014 M & R Conference that will be organized by Carl Nelson (Conference Chair) and Anurag Purwar (Program Chair).

Stay tuned into the activities of the M & R Committee via our new website (https://sites.google.com/site/asmenmrc) and our Google-Groups email list asme_ded_mr_committee@googlegroups.com.

MECHANTRONIC AND EMBEDDED SYSTEMS AND APPLICATIONS (MESA)
Bo Chen, Committee Chair
The Technical Committee (TC) on Mechatronic and Embedded Systems and Applications (MESA) provides a forum for technical discussions and interactions on topics related to emerging technologies in mechatronic and embedded systems that impact critical research and engineering issues. Mechanical and electrical systems show an increasing integration of mechanics with electronics and information processing. This integration is between the components (hardware) and the information-driven functions (software), resulting in integrated systems called mechatronic systems. The primary goal of the MESA TC is to enhance engineering practice through the dissemination of technological advances and innovations of mechatronic and embedded systems. It aims to bring multi-disciplinary researchers in Mechanical Engineering, Electrical Engineering, Computer Science, and other disciplines together to contribute to and influence the future directions of design and applications of mechatronic and embedded systems.

The MESA TC organizes annual International Conference on Mechatronic and Embedded Systems and Applications (MESA) since 2005. MESA conferences are sponsored by ASME Design Engineering Division (DED) and IEEE Intelligent Transportation Systems Society (IEEE ITSS). In odd numbered years, the MESA conferences are held with ASME IDETC/CIE. In even numbered years, the MESA conferences are mainly organized by the IEEE. MESA 2013 was held with ASME 2013 IDETC/CIE on August 4-7, 2013 in Portland, Oregon. Two keynote speeches were given by Professor Karl Hedrick from the Department of Mechanical Engineering at University of California Berkeley and Professor Changpin Li from Department of Mathematics at Shanghai University. The MESA technical committee is now organizing the 2014 IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications in Senigallia, Italy from September 10-12, 2014.

The 2013 MESA Achievement Award was presented to Prof. Harry H. Cheng at University of California, Davis for his cumulative contribution to the field of Mechatronic and Embedded Systems and Applications. For more information of the MESA TC, please visit TC website at http://iel.ucdavis.edu/mesa/.

MULTIBODY SYSTEMS AND NONLINEAR DYNAMICS (MSND)
Aki Mikkola, Committee Chair
The Technical Committee on Multibody Systems and Nonlinear Dynamics (TC-MSND) promotes research, application, and education in experimental, symbolic, computational, and analytical activities pertaining to multibody systems and nonlinear dynamics and related technical areas.

The terms of service for current TC-MSND officers will end on September 30, 2013. The Officers Nominating Subcommittee completed its assessment on December 2012 and nominated candidates to fill the upcoming vacancies. Beginning October 1, 2013, the TC-MSND Chair will be Harry Dankowicz, the Vice-Chair will be Dan Negrut, and the Secretary will be Walter Lacarbonara.

The Technical Committee organized the 9th International Conference on Multibody Systems, Nonlinear Dynamics, and Control (MSNDC), which took a place on August 4-7, 2013 in Portland. The conference consisted of 145 technical papers and presentations including a multibody panel session and a student paper competition. MSNDC conference keynote lectures were delivered by d’Alembert and Lyapunov award winners; Professor Ahmed Shabana and Professor J.M.T. Thompson. In addition, a mini-key-
note was delivered by Dr. Barry Gallacher. The 10th International Conference on Multibody Systems, Nonlinear Dynamics, and Control will be organized as part of the 2014 IDETC/CIE. The TC-MSND will co-sponsor the organization of the Second International Conference on Dynamics for Design (DFD) to be held also as part of the 2014 IDETC/CIE. In March 2013, the proposal “On the Infusion of Dynamics Analysis as an Integral Process of Engineering Design” was submitted on behalf of the DFD initiative. The DED Executive Committee approved a contribution of $15k toward a proposed DFD workshop to be held in conjunction with the 2015 IDETC/CIE meeting. The objectives of the workshop will be to strategically position DFD training and practice toward the needs of industry and research.

A group of Technical Committee members participated in the 2013 UIC Workshop on Multibody System Dynamics. This workshop was held at the University of Illinois at Chicago on August 10, 2013. The purpose of the workshop was to share recent research findings and discuss new research challenges in the area of multibody system dynamics.

A four week Summer School was organized at the University of Wisconsin-Madison. This event was made available to Technical Committee members and friends. This year, there were six students (from the US, Poland [2], Italy, Spain, and the Czech Republic) who attended the event between July 14 and August 10.

The TC-MSND sponsors the ASME Journal of Computational and Nonlinear Dynamics. Since 2011, the editor of the journal has been Professor Ahmed Shabana. In 2012, 234 manuscripts were submitted to the journal. Included in the Journal Citation Reports (JCR) in 2009, the journal’s Impact Factor from 2012 is 0.927. A special issue on Railroad Vehicle Dynamics was published in October 2012. Additional special issues are planned for the near future.

For more information about our activities, please visit our website at http://divisions.asme.org/DED/MULTIBODY_SYSTEMS_NONLINEAR.cfm or log in to the recently established Facebook page for the committee [ASME MSND Technical Committee] or to the LinkedIn site [ASME MSND Technical Committee].

POWER TRANSMISSION AND GEARING (PTG)
Timothy Krantz, Committee Chair
The objectives of the PTG Committee are:
• To promote the activity and education supporting the art and science of power transmission and gearing as related to the research, design and development of processes, machines and manufacturing in the global academic community and Industry.
• To promote the dissemination of knowledge and information pertinent to power transmission and gearing through: sponsorship of technical papers, technical meetings and seminars, and state of the art reviews, within the scope of the activities of the DED and ASME.


The PTG Committee organizes a conference at the IDETC every other year and our strategy has been evolving. In the more distant past, the PTG organized a conference only every four years. In more recent past, PTG would alternate between an “International” larger conference followed by a smaller “Domestic” conference, alternating every two years. Originally the call for papers for the domestic conference was limited to the U.S.A although papers from authors outside the U.S. were accepted. We had noticed that the number of papers for our “international” conference was falling in number while our “domestic” conference was growing. We have begun to consider no longer making a distinction in name or approach, and for the 2013 IDETC the call for papers was sent out internationally. The 2013 IDETC [PTG] featured approximately 48 papers. After completion of 2013 PTG the committee will consider whether to transition to holding an “International” conference every two years.

At 2011IDETC [PTG], we featured for the first time a Panel Session. The session was well attended and received. The 2013 IDETC [PTG] included one special session featuring one conference paper and two invited speakers with extended time for presentation and discussions.

The PTG Executive Committee decided to continue support of the Gear Research Institute via an annual membership fee. The Gear Research Institute Board of Directors includes three positions held by PTG Committee members. The membership supports student training in the art of gearing. For more information about our activities please visit our website at http://www.asmeptg.org or contact the PTG Chair at timothy.l.krantz@nasa.gov

VEHICLE DESIGN (VDC)
Corina Sandu, Committee Chair

VDC is a leading technical committee for advancing and deploying new techniques and skills in the area of vehicle dynamics. The Vehicle Design Committee (VDC) promotes innovative analytical, computational, and experimental investigations in control, dynamics, and design of full vehicle systems and their subassemblies. With the ever-rising demands on passenger safety, human-vehicle interface and human behavior modeling/simulation are also embedded into the technical spectrum of VDC. Our members perform fundamental research, applied research, and successful technology implementations for light and heavy vehicle design, modeling, and validation.

In the past year the VDC went through a significant restructuring, and implemented a ladder-type promotion approach for its executive committee members. At the committee meeting held at the IDETC conference in 2012, several items have been identified as critical to be addressed this year, and they have been pursued. We created four sub-committees: one to develop a set of governing rules for VDC, one for the VDC website, a nomination sub-committee, and a special activities sub-committee. Dr. Corina Sandu has led this effort. The committee continued to work on the aspects of increasing the level of participation of its members, the visibility of the committee,
and strengthening our relations with industry. We have been actively recruiting new members into our committee.

The Vehicle Design Technical Committee will introduce a new activity at the ASME Advance Vehicle Technologies Conference in 2013, by initiating the William F. Milliken Invited Lecture, to annually honor one outstanding researcher, engineer or educator, in memory of vehicle dynamics pioneer in the USA – Bill Milliken [1911 - 2012]. His name and outstanding contribution to vehicle engineering is considered as a significant pillar of modern vehicle dynamics in the U.S.A. and around the world. The lecture will be given annually at the ASME International Conference on Advanced Vehicle Technologies. The first invited lecturer is Dr. Thomas Gillespie, Dr. Vladimir Vantsevich has led this effort.

Another major effort of VDC has been the organization of the 15th International Conference on Advanced Vehicle Technologies. The conference chair is Dr. Massimiliano Gobbi and Co-chair is Dr. Moustafa El-Gindy. The Program Chair is Dr. Xubin Song and Co-chair is Dr. Beshah Ayalew. Five symposia have been organized and a total of seven sessions will be organized by VDC at the IDETC. This year we will have a Best Student Award and a Best Paper Award. Dr. Lei Zuo has led this effort, and the evaluation procedure has been further improved for more transparency and fairness. The two best paper awards are sponsored this year by Ebco.

VIBRATION AND SOUND (TCVS)
I.Y. (Steve) Shen, Committee Chair

The Technical Committee on Vibration and Sound (TCVS) provides leadership for promoting research, honoring high achievement, and disseminating knowledge in all areas related to mechanical vibration, acoustics, dynamics and controls. The TCVS membership consists of representatives from academia, government, and industry. TCVS recognizes especially strong contributors to vibration and sound by administering the society-level J. P. Den Hartog Award for lifetime contributions, and the committee-level N. O. Myklestad Award for a special innovative contribution. These awards, respectively, were most recently awarded to Peter Hagedorn (TU Darmstadt, Germany) and Steven Shaw (Michigan State University) in 2013. The next winners of these biennial awards will be presented at the IDETC in 2015. For information on the nomination process, see the TCVS webpage provided at the end of this article.

TCVS also sponsors ASME Journal of Vibration and Acoustics (JVA), which is a prestigious international journal in the area of vibration and acoustics. It’s impact factor is 1.268 (in 2012) with an acceptance rate around 30% to 35%. JVA also publishes a newsletter - The Latest Vibe - sent quarterly to over 5000 recipients. This newsletter provides (a) immediate access to the table of contents for the most recent issues of JVA, (b) a list of the 10 most cited papers in the prior two years, and (c) a summary of ASME-sponsored conferences/events related to our field.

Another of TCVS’ main activities is the organization of the Conference on Mechanical Vibration and Noise, now an annual part of the ASME International Design Engineering Technical Conferences (IDETC). In addition, TCVS members and friends organize reviewed paper sessions, lectures and panel sessions at the annual International Mechanical Engineering Congress and Exposition and other conference venues.

For 2013, TCVS and MSNDC co-sponsored the IDETC held August 4-7 in Portland, Oregon. Dane Quinn of TCVS and Harry Dankowicz of MSNDC served as the General Conference co-Chairs. Also, TCVS sponsored the 25th Conference on Vibration and Noise at the IDETC. Dane Quinn was the Vibration Conference Chair, and Massimo Ruzzenze was the Program Chair. There were 113 full papers and 151 presentations on the program.

The Vibrations Conference also featured a student paper competition, with awards going to top student-authored papers. First place went to Kevin Manktelow of Georgia Tech. The second place was a three-way tie. It went to Astitva Tripathi (Purdue University), Smruti Panigrahi (Michigan State University), and German Capuano (Georgia Tech).

Members of TCVS meet twice a year: a spring meeting at Chicago and a fall meeting in IDETC. TCVS members continuously bring up new initiatives to enrich the community. The most recent initiatives in action include (a) establishment of a new award to recognize young investigators at their early career, and (b) increase of industrial participation at TCVS and Vibrations Conference.

For more information about TCVS, please visit the web page at http://sites.google.com/site/asmetcvs/ or contact I. Y. (Steve) Shen, Department of Mechanical Engineering, Box 352600, University of Washington, Seattle, WA 98195; phone (206) 543-5718; fax (206) 685-8047; e-mail, ishen@u.washington.edu.

STUDENT AFFAIRS AND EARLY CAREER PROFESSIONAL
Scott Ferguson, Committee Chair

The goal of this committee is to integrate student and early career professionals into the ASME community. We primarily achieve this at the annual IDETC by having hundreds of students attend technical committee meetings, interact with faculty, ask questions after presentations, explore the host city, and participate in a special student reception.

Last year, the committee introduced a new workshop for students called ‘The student researcher: best practices and common pitfalls.’ This workshop provided a forum for discussing effective research strategies while identifying common traps that reduce effectiveness. Topics ranged from research skills (e.g., how to conduct a literature review, how to develop a research plan) to social skills (how to interact with your advisor, time management, translating your skills toward a career). Discussion took place via panels, presentations, and open question periods. At this year’s IDETC in Portland, 29 students attended the workshop on a Sunday afternoon. The committee would like to thank Phil Cormier (UB) and Robert Nagel (JMU) for their contribution to this workshop by serving as panelists.

The 2013 IDETC also saw the replacement of the student reception with a student networking lunch. Attended by nearly 300 undergraduate and graduate students, this lunch allowed students to interact with peers from other universities and research areas. A key component of this lunch was a 30 minute design challenge where students were tasked with designing a cyber-physical system to improve quality-of-life during the conference’s technical sessions. Over 39 different ideas were presented by the numerous student teams, and judges – Robert Nagel, Jacquelyn Nagel, Phil Cormier, Steve Shooter, David Lee, Siamak Ghofranian – volunteered their time to select the best (or most intriguing) concepts.
To award the winning teams, the committee had reached out to local Portland restaurants prior to the conference to secure gift-card donations. We are pleased, and humbled, to report that 7 local restaurants donated over $800 in gift cards that were given out to student teams so that they could explore the host city as a team. Finally, the committee would like to thank the IDETC conference organizers, ASME, and DED for their financial support of this event.

By coordinating with other activities at IDETC, we were able to construct a student-based activity thread on the first day of the conference. The committee was happy to highlight a DEC panel Monday morning called ‘Industry perspective on preparing a new generation of engineers’ that was attended by more than 50 people. This led into the student lunch and then was followed by the presentation of winning posters from the NSF/ASME IDETC Student Design Essay Competition. This year also saw the creation of a facebook page IDETC Student Activities and a twitter feed (@IDETCStudents) to get information to the students. If you have an activity or event you would like to publicize, are interested in becoming a member of the committee, or would like more information on student activities at IDETC, please contact Scott Ferguson at scott_ferguson@ncsu.edu.

BROADENING PARTICIPATION OF WOMEN AND MINORITIES

Janis Terpenny, Committee Co-Chair
Kate Fu, Committee Co-Chair

“it is not lack of talent, but unintentional biases and outmoded institutional structures that are hindering the access and advancement of women [and minorities]. Neither our academic institutions nor our nation can afford such underuse of precious human capital in science and engineering. The time to take action is now.” [2007 NAE Report: Beyond Bias and Barriers]

Now in its 5th year, the mission of the DED Standing Committee on Broadening Participation of Underrepresented Groups (BPart) is to implement and oversee activities aimed at broadening the participation of women and underrepresented minorities in the activities of the Design Engineering Division of ASME. It operates on the premise that building a community that provides networking and support, opportunities for collaboration, and professional development, will lead to greater career success, personal fulfillment, professional happiness, retention, and greater participation and contributions from women and minorities.

Currently led by co-chairs Kate Fu and Janis Terpenny, the committee is very active and has grown significantly to now 17 members strong. During 2012-2013, the committee’s work focused on: 1) a successful fourth annual workshop in 2012 on communicating technical ideas; 2) development of a valuable fifth annual workshop in 2013 on overcoming the ‘Impostor Syndrome’; 3) continued refinement of a wiki-site to support the community; 4) the analysis of four years of data on participants’ experiences in the workshops(s) and beyond, presented at the 2013 ASEE Annual Conference; and 5) continued work to investigate/understand the needs and challenges of underrepresented groups within the ASME DED community and in engineering more broadly.

The committee sponsored a half-day workshop at the 2013 IDETC: “How to Feel as Bright and Capable as They ‘Think’ You Are: Why Capable People Suffer from the Impostor Syndrome and How to Thrive in Spite of It”, led by Dr. Valerie Young, a leading expert on the Impostor Syndrome. NSF generously provided funding to supplement travel expenses for selected graduate students and postdocs to attend the workshop, as did DED to support speaker expenses and refreshments.

As part of its effort to encourage women and minorities to get more involved in the DED through Technical Committees, BPart again hosted a “Speed Networking” session at the 2013 workshop. This hour-long activity gave participants the opportunity to hear from and connect with the ASME DED Technical Committee chairs. Participants learned how each committee operates and how they could become involved, and had the opportunity to informally network with committee chairs and others during a social event at the conclusion of the workshop.

Results from a 2012 follow-up impact assessment survey showed that participation in BPart workshops has led to greater participation in DED activities, positive new connections within the DED community, and more positive feelings about one’s communication/collaboration abilities, self-confidence, feelings of inclusion, leadership abilities, and skill sets.
The 2014 ASME International Design Engineering Technical Conferences (IDETC) and Computers and Information in Engineering Conference (CIE) will take place from August 17-20, 2014 in Buffalo-Niagara, NY, USA. The conference is the flagship international meeting for researchers, educators and practitioners in the field of design engineering and includes:

- 16th International Conference on Advanced Vehicle Technologies (AVT)
- 34th Computers and Information in Engineering Conference (CIE)
- 40th Design Automation Conference (DAC)
- 11th International Conference on Design Education (DEC)
- 19th Design for Manufacturing and the Life Cycle Conference (DFMLC)
- 26th International Conference on Design Theory and Methodology (DTM)
- 38th Mechanisms and Robotics Conference (MR)
- 8th International Conference on Micro- and Nanosystems (MNS)
- 26th Conference on Mechanical Vibration and Noise (VIB)
- 2nd Biennial International Conference on Dynamics for Design (DFD)
- 10th Conference on Multibody Systems, Nonlinear Dynamics, and Control (MSNDC)
- Special Industrial Exposition/Industrial Track (being planned)

**Paper Submission:**
Authors are requested to register and submit a tentative title/abstract to begin the process. Full-length manuscripts are required by the due date for peer review in order to be accepted for presentation at a technical session and publication in the conference proceedings. Abstract, draft manuscript and final-paper submissions need to conform to all ASME guidelines.

**Important Dates:**
- January 10, 2014  Deadline for Abstract Submission
- January 24, 2014  Submission of Full-Length Draft Manuscript
- March 21, 2014  Author Notification of Acceptance/Rejection
- April 25, 2014  Submission of Final Paper

**Organizing Committee:**
- **General Chair:** Venkat Krovi (SUNY Buffalo)
- **Program Chair:** Thomas Sugar (ASU)
- **Tutorials/Workshops:** David Cappelleri (Purdue), Craig Lusk (USF)
- **Publications:** Haijun Su (OSU)
- **Student Activities:** Phil Voglewede (Marquette), Charles Kim (Bucknell), Scott Ferguson (NCSU)
- **Local Organization:** Rahul Rai (SUNY Buffalo), Ehsan Esfahani (SUNY Buffalo)
- **Industry Relations:** Justin Seipel (Purdue), Ou Ma (NMSU), Dan Zhang (UOIT)
- **International Participation:** Yu Zhou (SUNY IT), Andreas Muller (Duisberg-Essen)

**Sponsors:**
- School of Engineering and Applied Sciences