
Minutes of the Spring 2008 Meeting

Sunday, April 6, 2008, 10:00 a.m. EST
Room 1043 ERF Building, 842 W. Taylor Street
University of Illinois at Chicago

Present:

Members and Ex-Officio

Adams, Caruntu, Feeny, Flowers, He, Jalili, Kalmar-Nagy, Mann, Mei, Parker, Rahn, Rook, Shaw, Shen, Szasz, Tang, Wang, Zhu

Friends and Former Members

A. Luo, Royston, Tzou

Flowers (TCVS Chair) called the meeting to order at 10:00 a.m. Introductions were made.

1. Approval of Minutes

The minutes of the September 9, 2007 meeting in Las Vegas were approved.

2. New Business

(a) TCVS Treasurer's Report (Rahn)—See Appendix for attached report.

Investments have not done well this year. The Den Hartog fund is still above \$40K, which is enough for the ASME Design Division level award. The Den Hartog will be offered next time as a Design Division Award next time. TCVS might get \$40,000 from IDETC 2007, from the executive committee, based on paper ratio from TCVS. See item (e) below.

(b) IMECE 2007. Reports were given on two tracks are as follows.

1. Emerging Technologies Track (Shen)—See attached report.

There were not enough papers submitted to support the track, so there was a merger of three tracks into a fourth, the Mechanics of Solids and Structures. Thereafter, the ASME dropped Shen's name from the list of organizers.

2. Mechanical Systems Track (Adams, A. Luo, and Mei)—See attached report.

Participation data were summarized, with a total of 237 final papers. There was an error with the keynote speaker Zlazvensky. His name did not show up in the program, and it was past the deadline to fix it, and therefore he had no audience. Compensation for travel has been requested as a courtesy. As per discussions between Hamidzadeh and Judy Vance, the TCVS will split the cost (about \$350) with DED. Rahn said to make sure this is tagged as a special case for funding a keynote, and be careful not to set a precedent.

(c) IMECE 2008--See attached reports.

1. Mechanical Systems and Control Track (A. Luo). The MSC track has 263 total abstracts. Dynamics Acoustics and Simulations symposium contributes 113 of these abstracts. Data suggest that the number of participants is big enough for a separate conference.

2. Other symposia.

Epureanu reported (by email, see attached report) good numbers with three tracks, one with Caruntu, who also gave some data. See also the attached report from Al-Jumaily (by email) showing strong numbers in Biomedical and Biotechnology Engineering, co-sponsored by DED.

Flowers said that the data given are a good indicator of TCVS activity at the IMECE. TCVS has continued to maintain strong involvement with IMECE, despite that TCVS did not "endorse" it formally. The chair expressed appreciation to those involved.

(d) Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS) Conference (Rahn)—See attached flyer

Forty presentation slots are available to TCVS. Rahn acknowledged Jalili, Mann, and Tang, who are on the organizing committee. Adams is also offering some symposia. The proceedings call for extended abstracts, no full papers. The next TCVS meeting held at SMASIS, in Baltimore. It is possible that there will be a special JVA issue for the conference.

(e) IDETC 2007 (Tzou)--See attached report.

There was a total of \$202,106 revenue for conference. TCVS accounted for 20% of the papers, and thus may expect to get about \$40K. But this is not certain. The conference participation data is given in report. The report shows some discrepancy between the costs and the budget. Estimates were conservative, and some costs were cut such as the student activity, and finally some activities canceled or cut by ASME, possibly with the motive of money making. While the conference included nice activities, even more was planned, but was then cut.

(f) IDETC 2009 (Flowers)--See attached report.

The General Chairs are Anderson and Flowers, Dank and Quinn are the Program Chairs for IDETC, and Quinn is the Program Chair for the Vibrations Conference. The conferences will be held in San Diego, which has been a good locale in previous events. The Conference location is safe. Participating conferences were summarized (see report). Kalmar-Nagy indicated that there is talk of co-sponsoring, co-listing, and revenue sharing, between TCVS and MSNDC. Flowers expects to make detailed arrangements with Kurt Anderson. Tzou recommended working things out in advance to avoid disputes.

(g) Fall 2010 (Flowers)

As yet, TCVS is not fixed on its plan for even year conferences. One possibility is to continue with SMASIS (Rahn). This year, TCVS is allowed 40 slots (1/4 the conference total). TCVS can expect a similar arrangement two years later. It is not clear how the slots will be divided. Rahn will continue investigating it. It is yet to be known whether it will be successful. It is also not clear that there will be equal representation with ASMS, who started it.

Another possibility (Flowers) is the extension of the "Nayfeh odd year conferences". The idea is for collaboration with MSNDC (Anderson), TCVS, and Nayfeh. Anderson spoke with Nayfeh about it. Nayfeh is concerned that this would become a money-making ASME activity, and could eventually get too large and spin out of control. There are several from MSNDC on the steering committee. Nayfeh will talk with steering committee and provide feedback. TCVS will need to keep in mind that Nayfeh wants to keep it small and scholarly, and not follow the big-ASME-conference model. Flowers envisions keeping it grounded at VPI every few years, but with alternating other locations.

Shen asked if we thought about doing an even-year independent conference at IDETC. This would preserve identity, momentum, consistency. Jalili said that in odd years we (TCVS) "are" the IDETC, and other conferences come to us. In even years, another committee runs the IDETC, and we would have to go to them. Jalili suggested working with MSNDC, thinking that we can carry the conference together, maybe even every year (emphasizing that TCVS and MSNDC had 500 papers together at the IDETC 2007). Flowers commented that there can be an overflow of conferences. Many attend the "Nayfeh" conference in even years in addition to an ASME conference. The idea to work with Nayfeh and MSNBC was to consolidate in even years, with an inclination toward a smaller independent conference. There are also copyright issues, as well as opportunities (with Nayfeh's two journals). Mann listed some advantages: extended abstract, summer schedule, inexpensive, campus setting in contrast to large cities.

Rahn emphasized that this is an important current issue. Current choices are SMASIS, IDETC, Nayfeh collaboration, collaboration with DSC (suggested by Shaw), or an independent conference (possibly each year).

Flowers asked Jalili to be a member of a working group on this issue, to report back to the new chair in the fall meeting. The working group should then list a few proposals with pros and cons, and details on opportunities and disadvantages. It should study the implications of breaking away from ASME, and look at options with even years, and odd years as well.

Parker asked about international conferences as a good opportunity for interaction with different set of researchers. Flowers replied that this is an option, but there was negative feedback on it after being discussed at the last meeting. International conferences are more expensive, and more difficult for students. There was discussion on the meaning of working "with" ASME and "independent" of ASME. Differences are in cost, infrastructure, staff, and "insurance". Shen suggested looking at the background of attendees at past conferences, to see patterns, such as how many come from overseas. Attendees from overseas may not like small university locations because they like to sightsee in the US when they get a chance, and might also be concerned about hotel availability.

(h) IDETC 2011

Jalili presented a proposal (attached) which included consideration of conference committees, conference chair, TC co-chairs, an advisory committee, and the conference site. Tzou voiced support for Jalili, and requested our support, citing that the success of IDETC 2007 was largely due to Jalili. A motion was made and seconded to support Jalili for "a conference" in 2011, regardless of whether it is with IDETC or independent (but likely with IDETC). Support was unanimous.

(i) Report on Journal of Vibration and Acoustics (Wang)

New Associate Editors are Epureanu, Palazzolo, Ruzzene, Shaw, and Zhu. There had been a good response to IDETC'07 conference follow-up papers. The structural health monitoring special issue was guest edited by Epureanu. The next special issue on energy harvesting is to be edited by Quinn and Clark. Rahn reported that SMASIS will have a special issue, but it is not to be a "conference" special issue, rather it will have a special focus topic based on papers that are to come. There is to be some revenue sharing from ASME journal profit. DED says there will be some money coming back to the division. E-first publishing started in January 2008.

(j) Liaison reports

- Noise Control and Acoustics – Hambric. No report.
- Applied Mechanics Division (Dyn. Systems and Structures Committee) – Luo.

Dynamics and Control of Structures and Systems Conference in 2007 had 36 abstracts, and 22 final papers. The Nonlinear Dynamics Control and Stochastic Mechanics Conference in 2008, 91 total abstracts, including 45 for posters/presentation only. Luo was asked to be a member of working group for even year conference participation, with Shaw and Jalili, and Flowers. See attached report.

- Applied Mechanics Review – Pierre. No report.
- Aerospace Division (Adaptive Structures Committee) – Wang. Collaboration between the Adaptive Structures Committee and TCVS is always good, but is strengthened this year with the SMASIS Conference.
- Design Engineering Division (Power Transmission & Gearing Comm.) – Parker. PTG's big activity last fall was the IDETC 2007 at Las Vegas. Concurrent PTG and Vibration conferences work out well. PTG had about 40 papers on noise and vibration at the IDETC 2007.
- International Activities Committee – Liao. No report.
- Micro and Nano Systems Committee – Raman. No report.
- Multibody and Nonlinear Dynamics Committee – Shukla. No report.
- Dynamic Systems and Control – Jalili. Now having five technical committees in the dynamic systems and control areas, one of which is the committee on Vibration and Control of Smart Structures. Jalili is completing his term as founding chair and Jiong Tang is the elect chair of this committee. DSC will have the DSCC conference in Ann Arbor in October.

(k) Web page (Berger)—See attached report.

Berger send the report by email. The report shows web page statistics. Notably, about one hit every other day, 50% "bounce rate" (single-page visits), and average visit time of 1.5 minutes. Suggests light usage of web page. Options are to therefore invest little in webpage, or invest much more (such as in imechanica) to increase web visibility. Berger's email says he has greatly increased administrative responsibilities in his department. He offers to continue web page maintenance, but if further development is needed, TCVS may opt to find a new web developer. A decision will be made by the next meeting.

(l) Report from Industrial Subcommittee (Nataraj). No report at this time.

(m) Report from the ASME Fellow Nominating Subcommittee (Wang)

New fellows are Shen, Flowers, and Parker. Statements were presented commemorating these new fellows, along with certificates and pins.

3. Old Business.

4. Election of new officers (Flowers)

Rahn was nominated and voted in as Chair. Feeny was nominated and voted in as Vice Chair. Shen was nominated and voted in as Secretary.

5. Election of new members (Mei)

Caruntu, Dai, and Shukla have completed their 0th lead-in terms, and were re-elected to their first three-year terms. Liao, Mei and Rook have completed their first three-year terms, and were re-elected for their second three-year terms. Nataraj and Raman have completed their second three-year terms and are rotating off. Shen, having been elected as Secretary, can be classified as an ex-officio voting member, and therefore has vacated his regular membership to open an additional membership position. Ferri and Ruzzene were elected as new members with three-year terms. Royston was elected to a three-year term as a returning past member.

A late application was not considered. However, there was sentiment expressed that the rule on the application deadline (six weeks prior to the meeting) is out of date and can be pushed toward the meeting date. Flowers suggested putting this item on the agenda of a future meeting.

Meeting adjourned at 12:35.

Minutes prepared by Brian Feeny

Appendix

Reports given at the meeting

Treasurer's Report for the Technical Committee of Vibration and Sound

March 26, 2008

	<u>DEN HARTOG</u>	<u>MYKLESTAD</u>	<u>CUSTODIAL</u>
<u>Beginning Balance:</u>	45,720	23,746	12,113
<u>Source Of Income:</u>			
*Investment Income	<u>-2,549</u>	<u>-1,305</u>	<u>-680</u>
Total	-2,549	-1,305	-680
<u>Expenses:</u>			
Certificate/Medal	33	33	122
Awards/Honararium	<u>500</u>	<u>500</u>	<u>0</u>
Total	533	533	122
Net Balance:	<u>42,638</u>	<u>21,908</u>	<u>11,311</u>

* Comparative Fiscal year thru 2/2008

Christopher D. Rahn, TCVS Vice-Chair/Treasurer

Report on IMECE 2007

1. Mechanical Systems and Control Track (Luo and Vipperman)

Abstracts:	301
Draft papers:	256
Final papers:	237

9-1 General: Mechanical systems and Control (Carol Mei)

Abstracts:	10
Draft papers:	9
Final papers:	9

9-2 Active and Passive Noise Control (Vipperman, Sarigul-Klijn and Jonson)

Abstracts:	5
Draft papers:	5
Final papers:	5

9-9 Analysis and Control of Vibrations and Wave Propagations (Tang and DeSmidt)

Abstracts:	11
Draft papers:	11
Final papers:	11

9-10 Vibration and Control of Mechanical Systems (Luo and Hamidzadeh)

Abstracts:	68
Draft papers:	52
Final papers:	47

9-13-2 Plenary Speech: Fractional Dynamics and Kinetics (Luo and Hamidzadeh)

Brian:

Here is the report of IMECE 2007 -- Emerging Technologies Track:

Due to low number of papers submitted, Track 10 - Emerging Technologies, Track 1 - Adaptive Structures and Materials and Track 24 - Structural Health Monitoring have all been merged with Track 18 - Mechanics of Solids and Structures.

Thanks.

Sincerely yours,

I. Y. (Steve) Shen

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University of Washington
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Fax: (206) 685-8047
Email: ishen@u.washington.edu

Report on IMECE 2008

1. Mechanical Systems and Control Track (Luo and Cai)

Abstracts: 263
Draft papers: 193 (expected)
Final papers: XX

11-1 Dynamics, Acoustics and Simulations (Luo and Hamidzadeh):

Abstracts: 113
Draft papers: 100 (expected)
Final papers: XX

11-2 Optimization in Studying Nonlinear Phenomena (Dai and Reza)

Abstracts: 38
Draft papers: 37 (expected)
Final papers: XX

11-5 Multi-functional Damping in Structures (Tangpong, Wickert, Zhong)

Abstracts: 9
Draft papers: 9 (expected)
Final papers: XX

Dear George and Brian:

TCVS: total abstracts= 38+112+9=149

Accepted abstract= 38+106+9=143

Total: 143 (track 11)+41(track 2) =184

[Track 11 Mechanical Systems and Control Collapse All Topic](#)

Abstracts (Total)	263	Draft Papers (Total)	174	Final Papers (Total)	0
Awaiting Acceptance	72	Awaiting Submittal	170	Awaiting Submittal	0
Accepted	182	Authors Submitted	4	Authors Submitted	0
Awaiting Session Assignment	182	Awaiting Review	4	Awaiting Copyright Form	0
Assigned to Session	0	Under Review	0	Received Copyright Form	0
		Reviewed	0		
		Awaiting Acceptance	0		
		Under Revision	0		
		Accepted	0		
		Rejected	0		
				Withdrawn by Author	25
Rejected	9			Author Requests Re-instatement	0

11- 2. Symposium on Optimization in Studying Nonlinear Phenomena
Mechanical Systems and Control Track
Liming Dai, Reza Nakhaie Jazar, Huayong Zhang

[11-2 Optimization in Studying Nonlinear Phenomena Expand All Session](#)

Abstracts (Total)	38	Draft Papers (Total)	37	Final Papers (Total)	0
Awaiting Acceptance	0	Awaiting Submittal	35	Awaiting Submittal	0
Accepted	38	Authors Submitted	2	Authors Submitted	0
Awaiting Session Assignment	38	Awaiting Review	2	Awaiting Copyright Form	0
Assigned to Session	0	Under Review	0	Received Copyright Form	0
		Reviewed	0		
		Awaiting Acceptance	0		
		Under Revision	0		
		Accepted	0		
		Rejected	0		
				Withdrawn by Author	3
Rejected	0			Author Requests Re-instatement	0

11-1 Symposium on Dynamics, Acoustics and Simulations

Mechanical Systems and Control Track
 Albert Luo and Hamid Hamidzadeh

[□11-1 Dynamics, Acoustics and Simulations Expand All Session](#)

Abstracts (Total)	112	Draft Papers (Total)	97	Final Papers (Total)	0
Awaiting Acceptance	3	Awaiting Submittal	96	Awaiting Submittal	0
Accepted	103	Authors Submitted	1	Authors Submitted	0
Awaiting Session Assignment	103	Awaiting Review	1	Awaiting Copyright Form	0
Assigned to Session	0	Under Review	0	Received Copyright Form	0
		Reviewed	0		
		Awaiting Acceptance	0		
		Under Revision	0		
		Accepted	0		
		Rejected	0		
				Withdrawn by Author	12
Rejected	6			Author Requests Re-instatement	0

11-5 Multi-functional Damping in Structures
 Annie X.W. Tangpong, Jonathan Wickert, W.H. Katie Zhong

[□11-5 Multi-functional Damping in Structures Collapse All Session](#)

Abstracts (Total)	9	Draft Papers (Total)	9	Final Papers (Total)	0
Awaiting Acceptance	0	Awaiting Submittal	9	Awaiting Submittal	0
Accepted	9	Authors Submitted	0	Authors Submitted	0
Awaiting Session Assignment	9	Awaiting Review	0	Awaiting Copyright Form	0
Assigned to Session	0	Under Review	0	Received Copyright Form	0
		Reviewed	0		
		Awaiting Acceptance	0		
		Under Revision	0		
		Accepted	0		
		Rejected	0		
				Withdrawn by Author	0
Rejected	0			Author Requests Re-instatement	0

[□2-6 Dynamics and Control of Bimechanical Systems](#)

Topic Organizer: Dumitru I Caruntu, University of Texas Pan American

Topic Co-Organizer: Bogdan I. Epureanu, University of Michigan - Ann Arbor

Abstracts is 41

Brian, This year, things are very busy at IMECE 08. We have a total of 143 abstracts, which I think is absolutely huge. I am helping co-organize the following:

- Symposium on Dynamics and Control of Biomechanical Systems
Biomedical and Biotechnology Engineering Track (track 2)
with Dumitru Caruntu (Texas Panam)
(about 42 abstracts)
- Symposium on Nonlinear Dynamics, Control, and Stochastic Mechanics
Mechanical Systems and Control Track (track 11)
with Marco Amabili (Parma) and We-Chau Xie (Waterloo)
(about 92 abstracts)
- Symposium on Nonlinear Dynamics, Control, and Stochastic Mechanics
Mechanics of Solids, Structures and Fluids Track (track 12)
with Marco Amabili (Parma) and We-Chau Xie (Waterloo)
(about 9 abstracts)

These are "sponsored" by TCVS and DCSS (as I am the current chair of DCSS).

Thanks,
Bogdan

Report to the TCVS Spring Meeting
Ahmed Al-Jumaily-Auckland University of Technology

IMECE2008- Track 2-Biomedical and Biotechnology Engineering
Sponsored by: Bioengineering Division
Design Engineering Division

Track Chair: Ahmed Al-Jumaily- Auckland University of Technology
Track Co-chair: Sara Wilson – Kansas University

Summary:

There are eight symposia within this track with 180 accepted abstracts and 7 rejected. These are:

- 2.1 General Biomedical Applications – 16 abstracts accepted
- 2.2 BioMEMS, Micro and Nano Systems in Medicine and Biology -21 abstracts accepted
- 2.3 Vibration and Acoustics in Biomedical Applications- 22 abstracts accepted
- 2.4 Application of Composites in Biomaterials and Bioengineering- 11 abstracts accepted
- 2.5 Viscoelasticity of Biological Tissues- 14 abstracts accepted
- 2.6 Dynamics and Control of Biomechanical Systems-42 abstracts accepted
- 2.7 Bioengineering and Medical Applications-42 abstracts accepted
- 2.8 Frontiers in Cardiovascular Engineering-12 abstracts accepted

There will be a Plenary speaker for the track as well as 5 keynote speakers within the symposia.

SMASIS Conference Synopsis

Adaptive Structures and Materials Systems by definition are intelligent, flexible systems that have sentience and responsiveness to ever changing environments. The field has rapidly matured due to synergistic interdisciplinary efforts across sectors of universities, government and industry. To continue the high impact growth of this field and lead it into the future, the purpose of this conference is to assemble world experts across engineering and scientific disciplines (mechanical, aerospace, electrical, materials, and civil engineering, biology, physics chemistry, etc.) to actively discuss the latest breakthroughs in smart materials, the cutting edge in adaptive structure applications and the recent advances in both new device technologies and basic engineering research exploration. The conference is divided into six symposia broadly ranging from basic research to applied technological design and development to industrial and governmental integrated system and application demonstrations.

Schedule

May 3, 2008: 1000 word extended abstracts due
June 6, 2008: Authors informed of abstract acceptance
June 20, 2008: Copyright form due
July 28, 2008: Final manuscript due

Manuscript will appear in an archival ASME Conference Proceedings. Selected papers will be published in archival Journals.

Participation

Authors should submit a 1000 word abstract to the conference web site www.asmeconferences.org/SMASIS08. Questions can be directed to the Conference General Chair / Co-Chair.

Conference General Chair:
Christopher S. Lynch
cslynch@seas.ucla.edu

Conference Technical Chair:
Diann Brei
dibrei@umich.edu



Call for Papers

NEW ASME Conference* on SMART MATERIALS, ADAPTIVE STRUCTURES AND INTELLIGENT SYSTEMS

October 28-30, 2008 • Turf Valley Resort, Ellicott City, MD

Sponsored by the Adaptive Structures & Materials Systems Technical Committee, Aerospace Division,
Co-Sponsored by the Technical Committee on Vibration and Sound, Design, Division
Co-sponsored by the AIAA Technical Committee on Adaptive Structures

*This ASME conference will replace the annual ASME IMECE ASMS Symposium

NONLINEAR DYNAMICS AND PASSIVE / ADAPTIVE CONTROLS SYMPOSIUM

Chair: Chris Rahn (Penn State University), cdrahn@engr.psu.edu

Co-Chair: Don Leo (Virginia Tech), donleo@vt.edu

Organizing Committee:

Ajit Achuthan (GE), Hans DeSmidt (University of Tennessee, Knoxville),
Tad Calkins (Boeing), Mohammad Elahinia (University of Toledo), Nader Jalili
(Clemson University), Brian Mann (Duke University), T. Michael Seigler (University
of Kentucky), Jiong Tang (University of Connecticut)

Description: This symposium focuses on the dynamics and controls aspects of smart structures and their applications. Manuscripts are solicited that include modeling, analysis, control, and experiments for active/passive dynamic and static structural systems in the presence of dissipative, gyroscopic, or nonlinear effects. Papers on structural vibration, damping and acoustics of diverse application areas in aeronautical, space, marine, transportation, and civil structures are encouraged. Control of integrated systems consisting of structures coupled with advanced actuators, sensors, and processing can be achieved through passive, active, and hybrid approaches. The scope of the symposium ranges from system level dynamics and control of smart structures to development and modeling of new actuation, motion control and sensing techniques for integrated systems and recent advances in dynamic modeling and vibration control issues in micro/nanoscale smart structures and systems (MEMS and NEMS). Selected papers in a focused topic area may be considered for a special issue of the *ASME Journal of Vibration and Acoustics (JVA)*. A journal quality review process will be required for these papers prior to publication in JVA.

Topical areas:

- Vibration and acoustic control
- Passive/semi-active/active damping
- Active control surfaces and shape control
- Structural sensors, actuators and motion controllers
- Intelligent and adaptive controls
- Damped and gyroscopic systems including rotor dynamics
- Nonlinear dynamics and vibrations
- Dynamic modeling and vibration control of micro/nano systems

Invited Speakers:

Jim Hubbard (NASA), Steve Shaw (Michigan State), and Kon-Well Wang (Penn State)

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The 21st Biannual Conference on Mechanical Vibration and Noise (VIB)

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

<http://www.asmeconferences.org/IDETC07/TechnicalProgramOverview.cfm#1>

The 21st Biannual Conference on Mechanical Vibration and Noise (VIB), which is also the 40th anniversary of the VIB conference, was successful held in Las Vegas on September 04-07, 2007. It covered topics from traditional areas to emerging technologies, e.g., active/passive vibration control, wave propagation and acoustics, nonlinear dynamics, optimization and reliability of mechanical systems, smart material systems, biomedical applications, rotor dynamics, engine and powertrain dynamics, dynamics of MEMS and NEMS. Detailed symposia, the organizers and the financial report are presented after the conference summary. The 2007 VIB conference consisted of

- 255 papers (selected from 269 draft papers and 281 abstracts),
- 22 symposia,
- 55 technical/poster sessions, and
- 2 keynote speakers: Dr. Daniel Inman delivered the Vibration Conference keynote and Dr. Fredric F. Ehrich delivered a keynote at the TCVS/VIB Awards Dinner.

Symposia:

- ⊕ VIB-1 Active, Passive and Hybrid Vibration and Noise Control
- ⊕ VIB-2 Vibration and Control of Continuous Systems
- ⊕ VIB-3 Nonlinear Phenomena in Wave Propagation and Acoustics
- ⊕ VIB-4 Dynamics of Band-Gap Materials and Structures
- ⊕ VIB-5 Nonlinear Dynamics, Optimization and Reliability of Mechanical Systems
- ⊕ VIB-6 Experimental Nonlinear Dynamics
- ⊕ VIB-7 Nonlinear Dynamic Characterization and System Identification
- ⊕ VIB-8 Nonlinear System Identification and Reduced Order Modeling
- ⊕ VIB-9 Coupling Experimental-Based and Analytical Linear/Nonlinear Dynamic Models
- ⊕ VIB-10 Smart Material Systems
- ⊕ VIB-11 Model Identification and Intelligent Systems
- ⊕ VIB-12 Damage Detection, Model Updating and System Identification of Mechanical Systems
- ⊕ VIB-13 Engineering Asset Management

- ⊕VIB-14 Applications of Vibration and Acoustics in Biomedical Engineering
- ⊕VIB-15 Linear and Nonlinear Bio-Dynamics
- ⊕VIB-16 Modeling, Vibration and Control of Rotor Systems
- ⊕VIB-17 Rotor Dynamics: Nonlinear Analysis, Control & Diagnostics
- ⊕VIB-18 Engine and Powertrain Dynamics
- ⊕VIB-19 Modeling, Analysis and Characterization of the Dynamics of MEMS and NEMS
- ⊕VIB-20 Vibration Damping Treatments
- ⊕VIB-21 Vibrations and Controls of Manufacturing Systems
- ⊕VIB-22 Micro/Nano Vibration-based Sensors and Energy Scavengers
- ⊕VIB-23 VIB General Poster Session
- ⊕VIB-24 VIB Plenary Session

Symposium Organizers (in alphabetical order):

Douglas E. Adams, Ahmed Al-Jumaily, Marco Amabili, Lawrence A. Bergman, Dumitru I. Caruntu, Giuseppe Catania, William W. Clark, Liming Dai, Mohammed Daqaq, Mohammad H. Elahinia, Bogdan I. Epureanu, Ebrahim Esmailzadeh, Mostafa Fatemi, Brian Feeny, George T. Flowers, Hamid R. Hamidzadeh, Suraj Harsha, Mahmoud I. Hussein, Yukio Ishida, Nader Jalili, Reza Nakhaie Jazar, Gaëtan Kerschen, Walter Lacarbonara, Albert C.J. Luo, Brian Mann, , C. Nataraj, Sotirios Natsiavas, Costas Papadimitriou, Robert G. Parker, Paolo Pennacchi, D. Dane Quinn, Christopher D. Rahn, Homer Rahnejat, Massimo Ruzzene, Marco P. Schoen, Andrei Shkel, Henry Sodano, C. Steve Suh, Jiong Tang, Stephanos Theodossiades, Alexander F. Vakakis, Steve J. Wilcox, Kon-Well Wang, Hiroshi Yabuno, Mohammad Younis, Huayong Zhang and Weidong Zhu.

All these symposium organizers were recognized for their dedication and service with ASME Service Awards presented at the TCVS/VIB Awards Dinner.

2007 IDETC/CIE Financial Report (as of 03/03/2008)

Finance	Budgeted	Actual (03/03/08)
Total Revenue	\$572,350.00	\$592,540.00
Total Expense	\$489,292.26	\$390,433.38
Surplus	\$83,057.74	\$202,106.62
% Surplus	15%	34%

Again, the conference and program chairs would like to sincerely thank the supports of TCVS, all symposium organizers, authors, reviewers, etc. contributing to the success of the 2007 conference.

Conference Chair: H.S. Tzou, University of Kentucky

Program Chair: Nader Jalili, Clemson University

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

IDETC 2009 Status Report

February 25, 2008

1. Organization Committee Finalized

The conference organization committee consists of:

General Co-Chair	General Co-Chair	Program Co-Chair	Program Co-Chair
Kurt Anderson Rensselaer Polytechnic Institute Troy, NY 12180-3590 Tel: (518) 276-2339 E-mail: anderk5@rpi.edu	George Flowers Auburn University, AL 36849 Tel: (334) 844-3330 E-Mail: flowegt@auburn.edu	Harry Dankowicz University of Illinois at Urbana-Champaign Urbana, IL 61801 Tel: (217) 244-1231 E-Mail: danko@uiuc.edu	Dane Quinn, University of Akron Akron, OH 44325-3903 Tel: (330) 972-6302 E-Mail: quinn@uakron.edu

2. Conference City has been chosen

The 2009 ASME International Design Engineering Technical Conferences (IDETC) will take place August 30 - September 2, 2009, at the San Diego Convention Center in conjunction with the Omni San Diego Hotel. The San Diego Convention Center is located downtown along majestic San Diego Bay with the vibrant Gaslamp District and the San Diego Padres' PETCO Park at its doorstep.

3. Participating Conferences

IDETC 2009 will include the following conferences:

- 22nd Biennial Conference on Mechanical Vibration and Noise (VIB)
- 29th Computers and Information in Engineering Conference (CIE)
- 2009 ASME/IEEE International Conference on Mechatronic and Embedded Systems and Applications (MESA09)
- 7th International Conference on Multibody Systems, Nonlinear Dynamics, and Control (MSNDC)
- 35th Design Automation Conference (DAC)
- ASME Power Transmission and Gearing Conference (PTG)
- 20th Reliability, Stress Analysis, and Failure Prevention Conference (RSAFP)
- 33rd Mechanisms and Robotics Conference (MECH)
- 3rd International Conference on Micro- and Nanosystems (MNS)
- 6th Symposium on International Design and Design Education (DEC)
- 21st International Conference on Design Theory and Methodology (DTM)
- 14th Design for Manufacturing and the Life Cycle Conference (DFMLC)
- 10th International Conference on Advanced Vehicle and Tire Technologies (AVTT)

3. Conference Webpage

The initial IDETC 2009 website is active. It can be found at <http://www.rpi.edu/~anderk5/IDETC2009/>

Report Prepared by:
George T. Flowers and Kurt Anderson

Liaison reports on Applied Mechanics Division

(Dynamic Systems & Structures Committee)

- Conference in IMECE 2007

9-8 Dynamics and Control of Structures and Systems (Balachandran and Epureanu, 2007)

Abstracts: 36
Draft papers: 23
Final papers: 22

- Conference in IMECE 2008

11-3 Nonlinear Dynamics, Control, and Stochastic Mechanics (Epureanu, Amabili and Xie, 2008):

Abstracts: 46
Draft papers: 37 (expected)
Final papers:

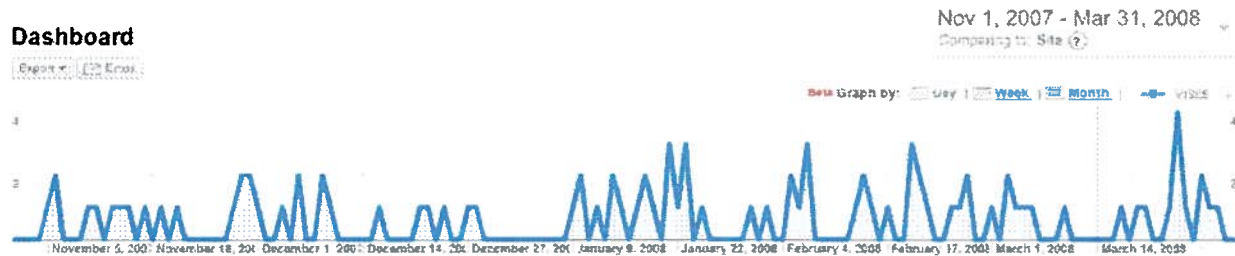
11-6 Posters in Mechanical Systems and Control (Epureanu, Amabili and Xie, 2008)

Abstracts: 45
Draft papers:
Final papers:

- Applied Mechanics Division will stay in IMECE.

TCVS Web Page Report April 4, 2008 Ed Berger

The TCVS web page statistics for the past 5 months (11/1/07-5/31/08) are shown below:



Key points are:

- a total 91 visits (81 unique visitors) and 252 total pageviews--this amounts roughly 1 visit every other day
- average time on site is less than 1.5 minutes
- the "Home" and "Awards" pages account for 89 of 91 landings on the site
- the bounce rate (i.e., the number of visitors who land and exit on the same page) is close to 50% (this means visitors do not explore the site, they only view 1 page)
- there were very few international visitors (less than 5 visits)

The main message is that there are very few visitors, and in fact based upon the geomap of visitors, it appears that many of those visits were actually TCVS members. Other than the awards-related visits, it appears that almost no casual visits have occurred. As such, this suggests two possibilities: (i) invest very little effort in the web site and view it as a source of information (e.g., bylaws) for TCVS members, OR (ii) invest a good deal of effort in promotion of the site and/or making it an information portal for the community at large (similar to the [imechanica site](#)). The first option requires very little effort, but of course the second requires quite a lot of effort on the part of many people. Clearly the contemporary model would be for the user community to contribute content, i.e. more like a blog or wiki than a (static) website. This is certainly possible, and would be a wonderful addition to currently-available resources, but the commitment required to continuously contribute to such a site would be substantial.

A Preproposal for the

**2011 ASME International Design Engineering Technical
Conferences and Computers in Engineering Conference
(2011 IDETC/CIE)**

Submitted to

TECHNICAL COMMITTEE ON VIBRATION AND SOUND (TCVS)

Prepared by:

Nader Jalili
Clemson University
(864) 656-5642, Email: jalili@clemson.edu

March 31, 2008

EXECUTIVE SUMMARY

This preproposal is respectfully submitted to the Technical Committee on Vibration and Sound (TCVS) to request TCVS's consideration and support for the proposed 2011 ASME International Design Engineering Technical Conferences and Computers in Engineering Conference (2011 IDETC/CIE). The proposed organization structure will include a General Conference Committee, a Technical Program Committee with a Tutorial/workshop Committee, an Advisory Committee and an International Scientific Committee. It is proposed that Dr. Nader Jalili at Clemson University serves as the Conference General Chair, whose short C.V. and past conference and professional experience are provided in Appendix 1. While the selection for conference site has not been finalized, a preplanning effort performed recently suggests the following potential cities (in no order of preference); **Washington DC, Hawaii, San Antonio and Boston**. Some of the universities in these cities have already been contacted for potential supports for local activities. A complete list of cities with hotels rate comparison and dates is provided in Appendix 2. To put the proposed city selections in perspective with past IMECE and IDETC/CIE conferences, a complete list of conference sites and dates is given in Appendix 3 for the past 10 years. Although some preplanning efforts have been already performed to coordinate various activities of the 2011 IDETC/CIE, additional efforts need to be made to build up the conference organization structure, in order to assure a perfect execution in 2010 and 2011. More detailed analyses including travel, cost and location information will be provided in a follow-up full proposal.

CONFERENCE COMMITTEES

The conference execution committees will include; 1) General Conference Committee, 2) Technical Program Committee, 3) Tutorial/workshop Committee, 4) Local Organizing Committee, 5) Advisory Committee, and 6) International Scientific Committee. The General Conference Committee consists of a Conference General Chair (Nader Jalili); the Technical Program Committee consists of up to three Technical Program Co-Chairs, one from TCVS, one from MSNDC, and one from CIE; the Tutorial/workshop Committee will have a Chair; one or two faculty members at the host university will serve on the Local Organizing Committee; five past IDETC General Chairs as well as representatives from DED Executive Committee and ASME Board on Technical Knowledge Dissemination will serve on the Advisory Committee; and foreign representatives who coordinate regional activities will serve on the International Scientific Committee. The proposed Conference General Chair has been actively and continuously working on various conference, symposia, workshop activities for over 10 years. He served as the 2007 IDETC/CIE Technical Program Chair and the 21st Vibration Conference Program Chair in 2007. His short C.V. and professional activities are outlined in Appendix 1. Additional committees may be organized once needs are developed in the process.

Conference General Chair:

Prof. Nader Jalili

Department of Mechanical Engineering

Clemson University, Clemson, SC 29631-0921

Tel: (864) 656-5642; Fax: (864) 656-4435; Email: jalili@clemson.edu

Technical Program Co-Chairs: TBD

In order to deliver a smooth and comprehensive technical program, up to three Technical Program Co-Chairs will be selected to represent TCVS, MSNDC and CIE. All co-chairs will report to General Conference Chair, who has extensive experience as Technical Program Chair and will assemble the final technical program in consultation with the co-chairs.

Tutorial and Workshop Program Chair: TBD

Local Organizing Committee: TBD

Advisory Committee:

The proposed Advisory Committee will consist of the following past IDETC/CIE General Chairs as well as a representative from DED Executive Committee.

- Prof. George Flowers – 2009 General Conference Co-Chair in San Diego
Department of Mechanical Engineering, Auburn University
- Prof. H.S. Tzou – 2007 General Conference Chair in Las Vegas, and
ASME Board on Technical Knowledge Dissemination representative
Department of Mechanical Engineering, University of Kentucky
- Prof. Hamid Hamidzadeh – 2005 General Conference Chair in Long Beach, and
DED Executive Committee representative
Department of Mechanical Engineering, Tennessee State University

- Prof. Ahmed Shabana – 2003 General Conference Chair in Chicago
Department of Mechanical Engineering, University of Illinois at Chicago.
- Prof. Subhash Sinha – 1999 General Conference Chair
Department of Mechanical Engineering, Auburn University

International Scientific Committee:

International representatives from various countries, who will be coordinating regional activities and symposia organization will be contacted to serve on the International Scientific Committee:

CONFERENCE LOCATION

As mentioned in the Executive Summary, a preplanning effort has been performed to identify potential cities for the 2011 IDETC/CIE. This preliminary study suggests the following three top choices as the conference locations (in no order of preference); **Washington DC, Hawaii, San Antonio and Boston**. A complete list of potential locations is given in Appendix 2. These choices are also good alternatives to locations selected for past IDETC/CIE and IMECE Conferences. A complete list of locations and conference dates for these conferences is provided in Appendix 3. Once this preproposal is accepted, a thorough analysis, in consultation with the Advisory Committee and ASME, will be performed to select the best location for this conference (not necessarily from these top choices).

CONFERENCE TIME

The selection for the conference time is directly related to the conference location, without knowing the latter, the former cannot be selected. However, a closer look at the projected hotel rates for the three top locations suggests to hold this conference around third to fourth week of August (see Appendix 2) rather than in September or October. Similar to conference location, the conference time will be thoroughly investigated and the best possible time in consultation with the Advisory Committee and ASME will be selected.

POSSIBLE CONFERENCE SITES

Once the conference location is selected, the best possible hotel and/or conventional facilities will be chosen. As detailed in Appendix 2, such consideration for conference site will have to be taken into account when selecting the conference location. The final selection of one of these hotels depends on the ASME Office that oversees the conference organization. When selecting the hotels and conventional facilities, closeness to the International Airport and walking distance to local attractions and restaurants will be considered.

ENTERTAINMENT AND OTHER ACTIVITIES

Dr. Jalili has gained extensive management experience as the Technical Program Chair and *right-hand* for the General Conference Chair during the 2007 IDETC/CIE. He will use this experience to develop a comprehensive and effective plan for a variety of activities ranging from local attractions and entertainment to students activities, industrial tours, family activities and many more to bring lasting memory and enjoyment to the participants.

APPENDIX 2 – A LIST OF POTENTIAL CITY OPTIONS FOR 2011 IDETC/CIE

City	High Season	Low Season	Current ('08) Hotel Rates	Webs
Hawaii	December – April	June – November * Hurricane Season (although it is rare). Also summer months are crowded on the beaches due to no school etc...	August 25-28, 2008 \$259+ September 8-11, 2008 \$259+	http://www.gohawaii.com
Atlanta	May – September	January – April	August 25-28, 2008 \$165+ September 8-11, 2008 \$180+ October 6-9, 2008 \$155+	http://www.atlanta.net
Chicago	April – December	January – March	August 25-28, 2008 \$199+ September 8-11, 2008 \$279+ October 6-9, 2008 \$199+	http://www.chicago.com
Boston	May – October *Very high in fall	January - February	August 25-28, 2008 \$300+ September 8-11, 2008 \$300+ October 6-9, 2008 \$300+	http://www.bostonusa.com
Washington DC	March – June and September – November	January, July & August	August 25-28, 2008 \$239+ September 8-11, 2008 \$259+ October 6-9, 2008 \$249+	http://www.washington.org
Orlando	June – August December – January (early Sept. is also "high season")	September - December	August 25-28, 2008 \$209+ September 8-11, 2008 \$209+ October 6-9, 2008 \$229+	http://www.orlando.info.com
Denver	June – August	November – March	http://www.visitdenver.com	
San Antonio	May – Mid August	Mid August – Late August Mid Dec. – Late Dec.	August 25-28, 2008 \$179+ http://www.sanantoniocvb.com	

APPENDIX 1 – RESUME OF THE PROPOSED GENERAL CONFERENCE CHAIR

Short Biography:

Dr. Jalili obtained his BS and MS Degrees from Sharif University of Technology, Tehran, Iran in 1992 and 1995 (both with first class honors), respectively, and his Doctorate in Mechanical Engineering from University of Connecticut (CT, USA) in 1998. He joined the faculty of Clemson University in August of 2000 from Northern Illinois University (DeKalb, Illinois) where he was a Visiting Assistant Professor. Dr. Jalili's research interests and expertise include precision mechatronics, system dynamics, vibration control, smart structures and piezoelectric-based actuators and sensors, micro and nanomechanical sensors and actuators, and control and manipulation at the nanoscale. Dr. Jalili is now Associate Professor of Mechanical Engineering and Director of Clemson University Smart Structures and NEMS Laboratory (<http://www.ces.clemson.edu/ssnems/home.html>). He is currently the Technical Editor of *IEEE/ASME Transactions on Mechatronics*, Associate Editor of *ASME Journal of Dynamic Systems, Measurement and Control*, founding Chair of ASME Technical Committee on Vibration and Control of Smart Structures, and member of ASME Technical Committee on Vibration and Sound (TCVS), IFAC Technical Committee on Mechatronic Systems, ASME Mechatronics Technical Committee, and ASME Vehicle Design Committee (VDC). Dr. Jalili was the General Technical Program Chair for the 2007 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE), www.asmeconferences.org/IDETC07.

As the past Chair and Vice-Chair of the Vibration and Noise Control Panel of the ASME, he is the author/co-author of more than 210 peer-refereed technical publications including 60 journal papers. He is the recipient of many national and international awards including the 2003 Faculty Early Career Development (CAREER) Award from the National Science Foundation, the 2002 Ralph E. Powe Junior Faculty Enhancement Award from Department of Energy, 2007, 2006, 2005, 2004, 2003 and 2002 Clemson University Board of Trustees Awards for Faculty Excellence in Research, 2007 (Inaugural) Clemson University College of Engineering and Science Collaboration Award for demonstrated exemplary and synergetic collaboration in research, 2007 Clemson University Outstanding Young Investigator of the Year, 2007 Clemson University Graduate Student Government Award for commitment to excellence and success of graduate students, 2007 Eugene H. Bishop Award for excellence in teaching (the highest teaching award given to Mechanical Engineering faculty), 2007 Ken Roby Advising Award for excellence in undergraduate advising, Major Advisor to: *i*) five Best Student Papers (IMECE 2001, IMECE 2002, IMECE 2004, IMECE 2006 and IMECE 2007); *ii*) three Endowed Teaching Fellows; *iii*) one Outstanding Ph.D. and three Outstanding MS Research Awards all in the Department of Mechanical Engineering at Clemson University, Outstanding Scholar Fellowship (OSF) from the University of Connecticut (1995-98), and First Class Honors for both MS (1995) and BS (1992) degrees from Sharif University of Technology, Tehran, IRAN.

Professional Activities:

- General Technical Program Chair for 2007 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE), Las Vegas, NV (September 4-7, 2007).
- Technical Program Chair for the 21st Biennial Conference on Mechanical Vibration and Noise (VIB), 2007 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Las Vegas (September 4-7, 2007).

- Associate Technical Editor, ASME Transactions, Journal of Dynamic Systems, Measurement and Control (2006-2009).
- Technical Editor, IEEE/ASME Transactions on Mechatronics (2005-2008).
- Founding Chair, Technical Committee on Vibration and Control of Smart Structures (TC-VCSS), ASME Dynamic Systems and Control Division (DSCD), (2006-2008).
- Chair, Vibration and Noise Control Panel of the ASME Dynamic Systems and Control Division (DSCD), (2003-2005).
- Member, IFAC Technical Committee on Mechatronic Systems, (2005-2008).
- Member, Mechatronics Technical Committee, ASME Dynamic Systems and Control Division (DSCD), (2006-2008).
- Member, Technical Committee on Vibration and Sound (TCVS) of the ASME Design Engineering Division (DED), (2004-2010).
- Member, Vehicle Design Committee (VDC) of the ASME Design Engineering Division (DED), (2004-2007).
- Member of Organizing and Program Committees, 2008 ASME *Dynamic Systems and Controls Conference* (DSCC 2008), Ann Arbor, MI (October 2008).
- Member of Organizing Committee, *Nonlinear Dynamics and Passive/Adaptive Controls Symposium*, ASME Smart Materials, Adaptive Structures and Intelligent Systems Conference (SMASIS 2008), Washington DC (October 28-30, 2008).
- Lead Organizer for *Symposium on Active Control of Vibration and Noise*, ASME International, 20th Biennial Conference on Mechanical Vibration and Noise (2005 IDETC/CIE), Long Beach, California (September 2005).
- Vice-Chair, Vibration and Noise Control Panel of the ASME Dynamic Systems and Control Division (DSCD), (2001-2003).
- Symposia and Lead Sessions Organizer for Dynamic Systems and Control Division and Design Division of the ASME, International Mechanical Engineering Congress and Exposition; IMECE 2001, New York, NY; IMECE 2002, New Orleans, LA; IMECE 2003, Washington, DC; IMECE 2004, Anaheim, CA; IMECE 2005, Orlando, FL; IMECE 2006, Chicago, IL and IMECE 2007, Seattle, WA.
- Proposal Reviewer (Panel Member and Chair) for National Science Foundation (2004-2007).
- International Program Committee Member for 2003 IEEE International Symposium on Intelligent Control (ISIC), October 2003, Houston, TX.
- Technical Session Chair for American Control Conference (ACC); ACC 2000, Chicago, IL and ACC 2001, Arlington, VA, as well as the ASME DETC Conf., DETC 2003, Chicago, IL.
- Proposal Reviewer for U.S. Civilian Research and Development Foundation (CRDF), the Science Center Programs of the U.S. Department of State (2003), and the Kentucky Science and Engineering Foundation (2002, 2006 and 2007).
- Textbook Reviewer for John Wiley & Sons, Inc (2002), and Springer (2005, 2006 and 2007).
- Symposia Chair, Dynamic Systems and Control Division, IMECE 1999, Nashville, TN.
- Paper Reviewer for ASME Transactions, Journal of Vibration and Acoustics; ASME Transactions, Journal of Dynamic Systems, Measurement and Control; IEEE Transactions on Control System Technology; IEEE/ASME Transactions on Mechatronics, Journal of Sound and Vibration; Journal of Vibration and Control; International Journal of Mechatronics; Transactions of the Canadian Society of Mechanical Engineers; Mathematical and Computer Modeling Journal and Journal of Multi-body Dynamics.

Selected Honors, Awards and Synergistic Activities:

National and International Awards:

- 2007 ASME Service Award in recognition of outstanding service and extraordinary dedication as General Technical Program Chair for the 2007 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE), awarded by the ASME Design Engineering Division.
- 2007 ASME Service Award for valued services in advancing the engineering profession as Technical Program Chair for the 21st Biennial Conference on Mechanical Vibration and Noise (VIB), awarded by the ASME Design Engineering Division, Technical Committee on Vibration and Sound.
- Best Technical Poster Presentation Award from National Textile Center (NTC), 15th NTC Forum, Competency: Materials, PI: N. Jalili, Hilton Head Island, SC (February 2007).
- Best Technical Poster Presentation Award from National Textile Center (NTC), 12th NTC Forum, Competency: Materials, PI: N. Jalili, Hilton Head Island, SC (February 2004).
- 6th International Conference on Vibration Measurements by Laser Techniques Research Award, Awarded by the European Commission, Research DG, The Human Factor, Mobility and Marie Curie Activities - Series of Events (SCF), Ancona, Italy (June 2004).
- 2003 National Science Foundation CAREER Awardee, NSF Division of Design, Manufacture and Industrial Innovations (DMII), Nanomanufacturing Program.
- Recipient of the 2002 Ralph E. Powe Junior Faculty Enhancement Award from the Department of Energy through Oak Ridge Associated Universities (ORAU).
- Listed in "Who's Who in America", "Who's Who in Science & Engineering", "Who's Who in the World", and "Who'sWho in American Education", MARQUIS Who'sWho[®] Publisher (2000-2008).

Clemson University Awards and Recognitions:

- Recipient of the Inaugural Clemson University College of Engineering and Science Collaboration Award for demonstrated exemplary and synergetic collaboration in research with notable contributions to the College (co-winner with D.M. Dawson from ECE, 2007).
- Outstanding Young Investigator of the Year Award (Engineering and Physical Sciences), Awarded by Sigma Xi Clemson Chapter (2007).
- Recipient of the 2007 Faculty Award for commitment to excellence and success of Clemson University graduate students, Awarded by the Graduate Student Government (2007).
- Eugene H. Bishop Award for Excellence in Teaching (the highest teaching award given to Mechanical Engineering faculty), Awarded by Pi Tau Sigma Chapter, Department of Mechanical Engineering (2007).
- Ken Roby Advising Award for Excellence in Undergraduate Advising, Awarded by the ASME Chapter, Department of Mechanical Engineering (2007).
- Clemson University Board of Trustees Award for Faculty Excellence in Research, six years in a row (2007, 2006, 2005, 2004, 2003 and 2002).
- Clemson University Research Foundation Certificate of Excellence for Patent Disclosure on "Electrospun Fabric having Piezo/Pyroelectric Response with Application to Sensing, Vibration Dampening and Energy Harvesting" (March 2005).

Student Advisees Awards and Recognitions:

- Major Advisor for one of the few \$10,000 Distinguished Ph.D. Fellowship Recipients during 2008-09 academic year at Clemson University (Mr. R. Saeidpourazar, Ph.D. student in Mech. Eng.), Awarded by Clemson University Graduate School (2008).
- Major Advisor for Best Student Paper Finalist in IMECE 2007 (Mr. S. Bashash, Ph.D. student in Mech. Eng), Awarded by the DSCD of the ASME (2007).
- Major Advisor for the 2007 SEMA Memorial Scholarship Awardee (Mr. R. Saeidpourazar, Ph.D. student in Mech. Eng.), Awarded by the SEMA Educational Foundation (2007-08).
- Major Advisor for one of the three Endowed Teaching Fellows in the Department of Mechanical Engineering, Clemson University (Mr. S. Bashash, Ph.D. student, Academic Year 2008/09).
- Major Advisor for one of the few prestigious \$10,000 R.C. Edwards Fellowship Recipients for Spring 2008 semester at Clemson University (Mr. S. Eslami, Ph.D. student in Mech. Eng.), Awarded by Clemson University Graduate School (2007).
- Major Advisor for Outstanding Doctoral Research Award Recipient (Mr. S.N. Mahmoodi, Ph.D. Candidate in Mech. Eng.), Awarded by Clemson University Department of Mechanical Engineering (2007).
- Major Advisor for Outstanding Masters Research Award Recipient (Ms. M. Afshari, MS student in Mech. Eng.), Awarded by Clemson University Department of Mechanical Engineering (2007).
- Major Advisor for Excellence in Undergraduate Engineering Research Award Recipient (Mr. J. Eichman, BS student in Mech. Eng.), Awarded by Clemson University Department of Mechanical Engineering (2007).
- Major Advisor for one of the three Endowed Teaching Fellows in the Department of Mechanical Engineering, Clemson University (Mr. R. Saeidpourazar, Ph.D. student, Academic Year 2007/08).
- Major Advisor for one of the only two \$10,000 Distinguished Ph.D. Fellowship Recipients during 2007-08 academic year at Clemson University (Mr. S. Bashash, Ph.D. student in Mech. Eng.), Awarded by Clemson University Graduate School (2007).
- Major Advisor for Best Student Paper Finalist in IMECE 2006 (Mr. S. Bashash, Ph.D. student in Mech. Eng), Awarded by the DSCD of the ASME (2006).
- Major Advisor for Outstanding Masters Research Award Recipient (Mr. S. Bashash, MS student in Mech. Eng.), Awarded by Clemson University Department of Mechanical Engineering (2006).
- Major Advisor for one of the three Endowed Teaching Fellows in the Department of Mechanical Engineering, Clemson University (Mr. S.N. Mahmoodi, Ph.D. student, Academic Year 2005/06).
- Major Advisor for Best Student Paper Finalist in IMECE 2004 (Mr. A. Ramaratnum, MS student in Mech. Eng), Awarded by the DSCD of the ASME (2004).
- Major Advisor for Outstanding Masters Research Award Recipient (Mr. M. Dadfarnia, MS student in Mech. Eng.), Awarded by Clemson University Department of Mechanical Engineering (2003).
- Major Advisor for Best Student Paper in IMECE 2002 (Mr. R. Derkhorenian, MS student in Mech. Eng), Awarded by the DSCD of the ASME (2002).
- Major Advisor for Best Student Paper in IMECE 2001 (Mr. D. Knowles, MS student in Mech. Eng), Awarded by the DSCD of the ASME (2001).

Awards and Recognitions As Student:

- Listed in “Who’s Who Among Students in American Universities and Colleges”, MARQUIS Who’sWho® publishers (1999).
- Outstanding Scholar Fellowship (\$26,500/yr for 3 years), Univ. of Connecticut (1995-1998).
- DSCD Student Travel Award, IMECE 1998, Anaheim, California (November 1998).
- 37th IEEE Conference on Decision Control Student Award (1998).
- Doctoral Dissertation Fellowship, University of Connecticut Research Foundation and Research Advisory Council (1997 and 1998)
- MS First Class Honors (+400) at Sharif University of Technology, Awarded by the Minister of Higher Education in Iran, 1995.
- BS First Class Honors (+750) at Sharif University of Technology, Awarded by the President of Iran, 1992.
- Gold and Silver Medals, National Volleyball Univ. Sport Olympiad, Iran (1988 and 1993).

Selected Recent Funded Projects and Grants:

- “Automated Manipulation of Active Nanofiber Fibrils Systems”, PI, Department of Commerce, 05/01/08 to 04/31/11, \$421,000.
- “CAREER – A Mechatronic-based Research and Educational Framework for Next Generation Actuators and Sensors Comprised of Functional Nanotube Composites”, PI, NSF, 05/16/03 to 04/30/09, \$440,000.
- “Acquisition of A Microsystem Analyzer for Research and Education in Dynamic Analysis, Surface Topography, and Characterization of Microstructures”, PI, NSF, 08/15/06 to 07/31/09, \$315,267.
- “Functional Fabric with Embedded Nanotube Actuators and Sensors”, PI, Department of Commerce through National Textile Center, 05/01/03 to 04/31/08, \$520,000.

Total Refereed Publications:

Over 60 peer-reviewed technical journal publications, and 150 technical conference proceedings.

APPENDIX 3 – A LIST OF PAST IDETC/CIE AND IMECE CONFERENCES

	IDETC/CIE	IMECE
2009	Dates: August 30-September 2, 2009 Location: San Diego, CA Hotel: Omni San Diego (Sessions at Conv. Ctr) Attendance: TBD	Dates: November 13-19, 2009 Location: Orlando, FL Hotel: Disney Dolphin Attendance: TBD
2008	Dates: August 3-6, 2008 Location: New York City, NY Hotel: Marriott at the Brooklyn Bridge Attendance: TBD	Dates: October 31-November 6, 2008 Location: Boston, MA Hotel: Sheraton Boston Attendance: TBD
2007	Dates: September 4-7, 2007 Location: Las Vegas, NV Hotel: Rio All Suites Hotel & Casino Attendance: 1298 Total Papers: 1223	Dates: November 11-15, 2007 Location: Seattle, WA Hotel: Sheraton Seattle Hotel Attendance: TBD
2006	Dates: September 10-13, 2006 Location: Philadelphia, PA Hotel: Sheraton Philadelphia City Centre Attendance: 564 Total Papers: 444	Dates: November 5-10, 2006 Location: Chicago, IL Hotel: Chicago Hilton Attendance: 2250 (paid)
2005	Dates: September 25-28, 2005 Location: Long Beach, CA Hotel: Hyatt Regency (Sessions at Conv. Ctr) Attendance: 1092 Total Papers: 1123	Dates: November 5-11, 2005 Location: Orlando, FL Hotel: Disney Dolphin Attendance: 1673 (paid)
2004	Dates: September 28-October 2, 2004 Location: Salt Lake City Hotel: Hilton Hotel Attendance: 576 Total Papers:	Dates: November 13-19, 2004 Location: Anaheim, CA Hotel: Hilton Hotel Attendance: 1779 (paid)
2003	Dates: September 2-6, 2003 Location: Chicago, IL Hotel: Chicago Marriott Downtown Attendance: 937 Total Papers: 823	Dates: November 16-21, 2003 Location: Washington, DC Hotel: Omni Shoram Attendance: 2140 (paid)
2002	Dates: September 29-October 2, 2002 Location: Montreal, Quebec Canada Hotel: Le Centre Sheraton Hotel Attendance: 563 Total Papers:	Dates: November 17-22, 2002 Location: New Orleans, LA Hotel: Hilton Riverside Hotel Attendance: 2325 (paid)
2001	Dates: September 9-12, 2001 Location: Pittsburgh, PA Hotel: Hilton Pittsburgh and Towers Attendance: 840 Total Papers: 739	Dates: November 11-16, 2001 Location: New York City, NY Hotel: Hilton / Sheraton Hotels Attendance: 1678 (paid)
2000	Dates: September 10-13, 2000 Location: Baltimore, MD Hotel: Omni Inner Harbor Attendance: 779 Total Papers: 583	Dates: November 5-10, 2000 Location: Orlando, FL Hotel: Disney Dolphin Attendance: 2028 (paid)

APPENDIX 2 – A LIST OF POTENTIAL CITY OPTIONS FOR 2011 IDETC/CIE

City	High Season	Low Season	Current ('08) Hotel Rates	Webs
Hawaii	December – April	June – November * Hurricane Season (although it is rare). Also summer months are crowded on the beaches due to no school etc...	August 25-28, 2008 \$259+ September 8-11, 2008 \$259+	http://www.gohawaii.com
Atlanta	May – September	January – April	August 25-28, 2008 \$165+ September 8-11, 2008 \$180+ October 6-9, 2008 \$155+	http://www.atlanta.net
Chicago	April – December	January – March	August 25-28, 2008 \$199+ September 8-11, 2008 \$279+ October 6-9, 2008 \$199+	http://www.chicago.com
Boston	May – October *Very high in fall	January - February	August 25-28, 2008 \$300+ September 8-11, 2008 \$300+ October 6-9, 2008 \$300+	http://www.bostonusa.com
Washington DC	March – June and September – November	January, July & August	August 25-28, 2008 \$239+ September 8-11, 2008 \$259+ October 6-9, 2008 \$249+	http://www.washington.org
Orlando	June – August December – January (early Sept. is also "high season")	September - December	August 25-28, 2008 \$209+ September 8-11, 2008 \$209+ October 6-9, 2008 \$229+	http://www.orlandoinfo.com
Denver	June – August	November – March	http://www.visitdenver.com	
San Antonio	May – Mid August	Mid August – Late August Mid Dec. – Late Dec.	August 25-28, 2008 \$179+ http://www.sanantoniocvb.com	