

The American Society of Mechanical Engineers CAM Section
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American Society of Mechanical Engineers



CAM NEWSLETTER

Canton - Alliance - Massillon Section
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CAM Section Homepage:
<http://www.uakron.edu/asme/cam.html>

WANTED

Board or Committee Members

Mondays, at either 6:00 PM at Stark State College
 ATC Room 114 (unless otherwise specified)

March 11, 2002 May 20, 2002
 April 15, 2002

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**Executive
Committee
2001-2002**

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Chandra Jain
Greg Hollinger
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Committee

Chairpersons

Advisory

Jim Blake

CJEC

Brian Werner
Chandra Jain

**College Relations &
Vocational Services**

OPEN

**Electronic
Communications**

Timothy A. Fuller

Fellowship & Welfare

OPEN

Finance & Budget

Greg Hollinger

Government Relations /

Ohio Council

Kathy Grant

History & Heritage

Tim Fuller

Honors & Awards

Dan Deckler

Industry Relations

OPEN

Member Initiative System

Jeff Gaidos

**Member Interest
/Development**

Brian Werner

Minorities & Women

NONE

**Newsletter/Public
Relations**

Steve Russell
Jason Emperador

Nominating

Norm Moore

**Professional
Development**

OPEN

**Program/
House/Attendance**

John Dougherty

Unemployed Members

OPEN



ASME International

CAM Section News

Volume 53 Issue 5 February 2002

Thanks to all who turned in their ballots for the 2002-2003 CAM Section Elections. Results should be in the next newsletter!!

Also, this month is National Engineers Week, so let's not forget how far engineering has come. Give yourselves a pat on the back!!! Get involved with students and show them what engineering really is. The following is a list of the greatest engineering achievements of the 20th Century by the National Academy of Engineering

1. Electrification
2. Automobile
3. Airplane
4. Water Supply and Distribution
5. Electronics
6. Radio and Television
7. Agricultural Mechanization
8. Computers
9. Telephone
10. Air Conditioning and Refrigeration
11. Highways
12. Spacecraft
13. Internet
14. Imaging
15. Household Appliances
16. Health Technologies
17. Petroleum and Petrochemical Technologies
18. Laser and Fiber Optics
19. Nuclear Technologies
20. High-performance Materials

Jason Emperador
ASMA CAM Section Secretary

Presidential Message for National Engineers Week February 17-23, 2002



I am pleased to send warm greetings as you recognize National Engineers Week.

Americans have always been innovators, pioneers, and explorers. Through their work, engineers play an important role in carrying on this tradition. They provide the design and structure that enable new ideas to become tangible benefits to our society. Engineers help expand our horizons, from planning essential infrastructure for the growth of our cities to finding better ways to preserve America's beautiful wilderness for future generations.

I commend the professionals, teachers, and students participating in National Engineers Week. This week's activities will showcase the interests and talents of America's engineers and provide inspiration for our young people to set high goals and work hard to achieve them.

Best wishes for a successful week.

UPCOMING ASME EVENTS

March: Orthopaedic Engineering

April: Timken Research

May: Akron Aeros

More details will be announced as the meeting nears

There is no meeting this week, but the Canton Joint Engineering Council (CJEC) will be holding a meeting on Wednesday February 20 at Skyland Pines Country Club. Fred Crumb Director of CAK will speak on expansion of the airport. Two Airtran Airlines roundtrip tickets tickets will be raffled for attendees. Please contact Brian Werner for more details: wernerb@timken.com.

The CJEC joins ten engineering and scientific societies in the Canton area to promote public service, cooperation in technical activities, meetings of mutual interest, and education programs.

ASME DISTINGUISHED LECTURER
KAREN E. WARDEN

“Orthopaedic Engineering”



Karen Warden is a doctoral candidate in the Mechanical Engineering Department at Case Western Reserve University specializing in spinal biomechanics. Karen has been active in the field for the past ten years in academic, industrial, and consulting capacities, has co-authored numerous peer-reviewed publications and received research and achievement awards.

Some of Ms. Warden’s publications that she co-authored are “Biomechanical Evaluation of Cervical Spinal Stabilization Methods in a Human Cadaveric Model”, “Compression Strength of Allograft Bone for PLIF,” “Device-Related Osteoporosis with Spinal Instrumentation: A Canine Model,” and “The Influence of Bone Mineral Density on the Fixation of Thoracolumbar Implants.”

Ms. Warden is currently a Consultant in Cleveland, Ohio. Karen’s activities include development of mechanical testing protocols for the evaluation of implants, generation and review of FDA submissions, management and coordination of mechanical experimentation, product development assistance, scientific support research for marketing documents, and project management.

Ms. Warden’s awards include the “1989 Volvo Award for Basic Science Research in Low-Back Pain” (co-recipient) and the “1997 Cervical Spine Research Society Research Award” (co-recipient).

Karen is a member of the American Society of Mechanical Engineers, American Society of Biomechanics, Biomedical Engineering Society, The Johns Hopkins Medical and Surgical Association, International Society of Biomechanics, and Orthopaedic Research Society.

Karen received a B.S.M.E. in 1981, from the Department of Engineering, West Virginia University, Morgantown, WV and in 1985 a M.E.B.E., from the Department of Biomedical Engineering, University of Virginia, Charlottesville, VA..

ASME is a worldwide engineering society focused on technical, educational and research issues, with 123,000 members including 24,000 students. It conducts one of the world’s largest technical publishing operations, holds more than 30 technical conferences each year, and sets many industrial and manufacturing standards.

WHERE

Belden Village Holiday Inn

WHEN

Monday March 18, 2002 6 PM

MENU

Marinated Chicken Breast or Baked Scrod
\$10 per person/\$8 for students

CONTACT

John Dougherty
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email: doughjd@timken.com

ASME Undergraduate Scholarship and Loan Deadlines are Fast Approaching!!

The application postmark deadline for ASME Student Scholarships is March 15, 2002. The postmark deadline for ASME Loans is April 15, 2002.

Details and application forms for both programs can be found on the ASME Financial Aid website, www.asme.org/education/enged/aid, or contact Theresa Oluwanifise, oluwanifiset@asme.org for more information.

Contribute to the ME Today Newsletter!

If you are interesting in publishing a non-technical article that will be helpful to other mechanical engineers, 0-10 years in the workforce, please submit your proposals and ideas to youngengineers@asme.org.

Mail or fax proposals to: ASME International, Cheryl Hasan, Three Park Avenue New York, NY 10016. Fax: 212.591.7437

Influence the Future of Engineering – Become a Mentor!

It's easy to sign up. Just go to www.asme.org/ementoring and click on "Become a Mentor."

For more information about mentoring, or to view the mentor already online, please visit www.asme.org/ementoring. If you volunteered last year, and would like to sign up again, please contact Deidra Hackley, coordinator of student programs at hackleyd@asme.org or 212-591-7852.

Partners In Mechanical Engineering Grants Available!

Sponsored by the board on Minorities and Women (BMW), the Partners in Mechanical Engineering program provides funding on a first-come, first-served basis to ASME Sections for projects and/or activities that support collaboration with local sections or chapters of organizations that support women and underrepresented minority group in engineering.

Grants range from \$500 to \$1000 depending upon the size and scope of the project or activity. Proposals may be submitted at any time of the year.

To request a copy of the application form, contact Mary James Legatski in the ASME Washington Center at 202-785-7380 or at legatskim@asme.org. An application may be filed on-line at www.asme.org/bmw/partners.html.

LAST CHANCE: SCHOLARSHIP NOMINATIONS DUE MARCH 1!

Do you know a deserving high school senior who has been involved in the FIRST Robotics Competition?

ASME Members (and student members) can nominate FIRST Team seniors going into Mechanical Engineering or ME Technology. Seven \$5,000 awards will be made in April. Send us your candidates!

Deadline is March 1, 2002. Complete information and forms are downloadable at: <http://www.asme.org/education/precoll/first/firstscholarship.htm>

Please contact Theresa Oluwanifise or Edie Ervin at oluwanifiset@asme.org, ervine@asme.org, or 1-800-THE-ASME, with questions.

Here's Your Opportunity to Propose Individuals for Society Office

The future success of the Society depends on the effective utilization of the knowledge and abilities of its individual members. If the Society is to improve or refine its present programs, it is essential that the members continue to select new officers who are capable, dedicated individuals with exceptional leadership qualities.

The 2002 Nominating Committee, consisting of 38 voting members, urges that you submit your proposals now. As part of its selection process, the Committee will study each of the written proposals submitted on behalf of all proposed nominees for office and will interview the proposed nominees and their supporters.

The Nominating Committee will select 13 nominees for Vice Presidential positions for the 2003-2006 term. There will be five Regional Vice President positions (I, VII, IX, XI and XIII); three Engineering Vice President positions (Engineering & Technology Management, Environment & Transportation, and Int'l Gas Turbine Institute); two Codes and Standards Vice President positions (Conformity Assessment, and Safety Codes & Standards); and three other Vice President positions (Engineering Education, Government Relations and Member Interests & Development).

The Nominating Committee will select three nominees for the member-at-large positions on the Board of Governors for the 2003-2006 term, and a nominee for President for the 2003-2004 term.

If, as a member of ASME, you are interested in submitting a proposal for any one of the above elective offices, please contact Rita M. Patterson, secretary, 2002 Nominating Committee, at 409-772-9071, rita.patterson@utmb.edu. The nomination package is available at <http://www.asme.org/honors> or copies may be obtained from Gilda A. DiTullio at ASME Headquarters at 212-591-7736, ditulliog@asme.org. The deadline for submitting completed proposal forms is **April 15, 2002**.

ASME MEMBERSHIP RENEWAL BONUS!!

All ASME Student Members who graduated 2001 will receive a complimentary copy of *The Unwritten Laws of Engineering*.

Fully revised and updated edition of the 1944 classic, serves as a crucial compilation of "house rules," or a professional code. It addresses three areas: what the beginner needs to learn at once, laws relating chiefly to engineering executives, and purely personal considerations for engineers. Packed with contemporary examples, this new volume is a must for those entering the engineering field or those interested in improving their professional effectiveness.

Edited by: James G. Skakoon and W.J. King a young ASME members' outstanding performance, in their profession, community, and the work of ASME.

Voices Of Innovation

A new daily public radio program, "Voices of Innovation," launched by the American Association of Engineering Societies with generous support from ASME, will feature some 200 engineers in 2-minute programs that explore and celebrate the world of engineering. The program will begin airing in April 2002. To be considered for one of the programs, engineers need to submit a story idea form, which is available at www.voicesofinnovation.org.

2001-2002 Member-Get-A-Member Campaign

Help ASME International serve the needs of the mechanical engineering community by sponsoring new members. With each new member, you recruit, 50% of the first year's dues will be spent on scholarships for mechanical engineering students.

For complete program details, log onto <http://www.asme.org/membershipdrive>

Into bicycling? Like to design and build things?

Challenge Your Ingenuity and Endurance in the HPV Challenge!

For the first time, the Human Powered Vehicle competition (HPV) will be held in two locations in 2002. The HPV competition will be held in Reno, Nev., April 26-28 and in Blacksburg, VA, May 17-19. Teams are encouraged to participate in either or both locations.

HPV is a real-world experience in product development – and an opportunity for an engineering capstone design project that requires a full spectrum of engineering skills from design to manufacturing and testing. Each team completes an in-depth report, and presents a summary of the vehicle design and testing for judging by experienced engineers. Teams demonstrate the capability and safety of the vehicle through sprint and endurance events.

Designs may include one or more entries in three vehicle classes – single-rider, multiperson and utility vehicles. Competition awards include cash prizes for best overall scores in each of the three vehicle classes. Prizes may be awarded to both the student teams and the Mechanical Engineering departments they represent.

The rules for the competition are posted at, www.asme.org/hpv. More details and registration information for each location will be posted on the site as they become available. If you are thinking of participating, or just love good competition, mark the dates on your calendar and make plans to attend!