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CHAIR'S MESSAGE

Holidays, Tours, OSU Student Section & Regional Student Conference

Happy Holidays to all!

November and December has given us a medical theme to our programs. In November, we enjoyed a tour of the Medex facility. Medex manufactures medical devices, and the tour of their facility brought to light the importance of mechanical engineering in burgeoning and high tech industries. The November Program attendees send a special Jim Hamilton, and Kent Vedder of Medex for spending extra time with our tour groups.

December brings us to Horton Emergency Vehicles. Horton is a premier manufacturer of ambulances and other emergency vehicles. I have personally toured their facility and their manufacturing methods and facility are impressive, especially compared to traditional metalworking operations you may be used to.

Our thanks go out to Medex and Horton. I'd like to welcome Bill Colgan to the EC. Bill moved to the Columbus area last year to begin his ME career at Showa Aluminum Corporation of America. For the EC, he will focus on increasing support services/programs with our student chapter at OSU. The EC is going strong, and we appreciate the efforts of my colleague, Mari Truman, in preparing the newsletter and acting as the catalyst for the section.

Please take time to read the newsletter. We've described opportunities to **help OSU's student section sponsor the student RSC**. This is a big deal for them to put together, particularly in light of their demanding academic schedules. If you'd like to help, just give me (or Mari) a call at 614-221-5443.

Best Wishes to you and yours for a happy, healthy and successful new year!

Bart

Bart Eckhardt, P.E.
Beckhardt@robsonlapina.com
Chair, ASME Central Ohio Section

Industry Focus Input - Local Industry executives are encouraged to offer suggestions on what you'd like to see your local ASME section do to assist you in professional engineering staff development. ASME national has multiple programs available which we can initiate/sponsor in Columbus, OH. Please contact Greg Soller at: (614) 723-4377 or by email: g_soller@hotmail.com

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DECEMBER PROGRAM
Horton Emergency Vehicles Tour

Tour Guides: Mark Riley and Dan Gallagher .

Horton Emergency Vehicles, located in Grove City, Ohio, has been manufacturing the world's finest ambulances for the past 35 years.

Unlike most ambulance manufacturers, Horton vehicles are almost always customized to meet the customer's needs. Customers typically range from rural departments, who favor medium duty chassis for long miles, to urban departments, like New York City, that favor smaller ambulance to maneuver in tight city streets.

Always the innovator, Horton Emergency Vehicles combines old-world craftsmanship with all-aluminum bodies, compartments and cabinetry, and solid state and multiplex technologies. Horton also is the only ambulance manufacturer with an on-going crash-testing program.

Web Page: <http://www.hortonambulance.com/>

RESERVATIONS: Please RSVP by 4:00 pm Monday, DECEMBER 15, 2003. Contact Anup Singh, at (614) 436-0480, (614)937-8581, or via e-mail asahlawat@hotmail.com.

About the hosts for this ASME event:

Mark Riley- Manufacturing Engineering Manager. Mark was hired by Horton in 1990 to design and set up manufacturing of the aluminum modular bodies. They had been buying them from Pierce Manufacturing out of Appleton, Wisconsin. He is originally from Palmer, Massachusetts, where he first became involved building ambulances for a small New England manufacturer in 1976. Mark is a graduate of Hiram College with a BA in General Science. Dan is married, with two children.

Dan Gallagher - Mechanical Engineer. Dan provides engineering support to the sales staff, administers the scrap reduction program, and coordinates student research projects at the University of Dayton. An ongoing project, Dan also evaluates materials for NVH reduction and cost savings. He is a 2003 Mechanical Engineering Graduate of Rose-Hulman Institute of Technology, in Terre Haute, Indiana. Dan interned with Horton this past summer, and has been employed here since graduation in May. Prior to working for Horton, Dan worked with TNT Rescue Systems of Ashippun, Wisconsin; and the National Collegiate Athletics Association in the statistics office. Dan is a member of ASME and SAE. His Fiancée, Marcy, currently attends Rose-Hulman, pursuing a degree in Chemical Engineering, but should be jointing him in Columbus this spring.

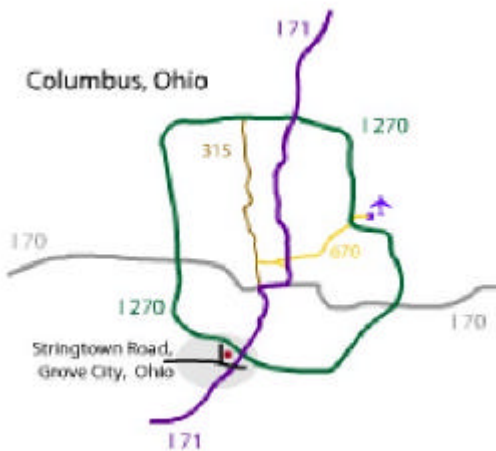
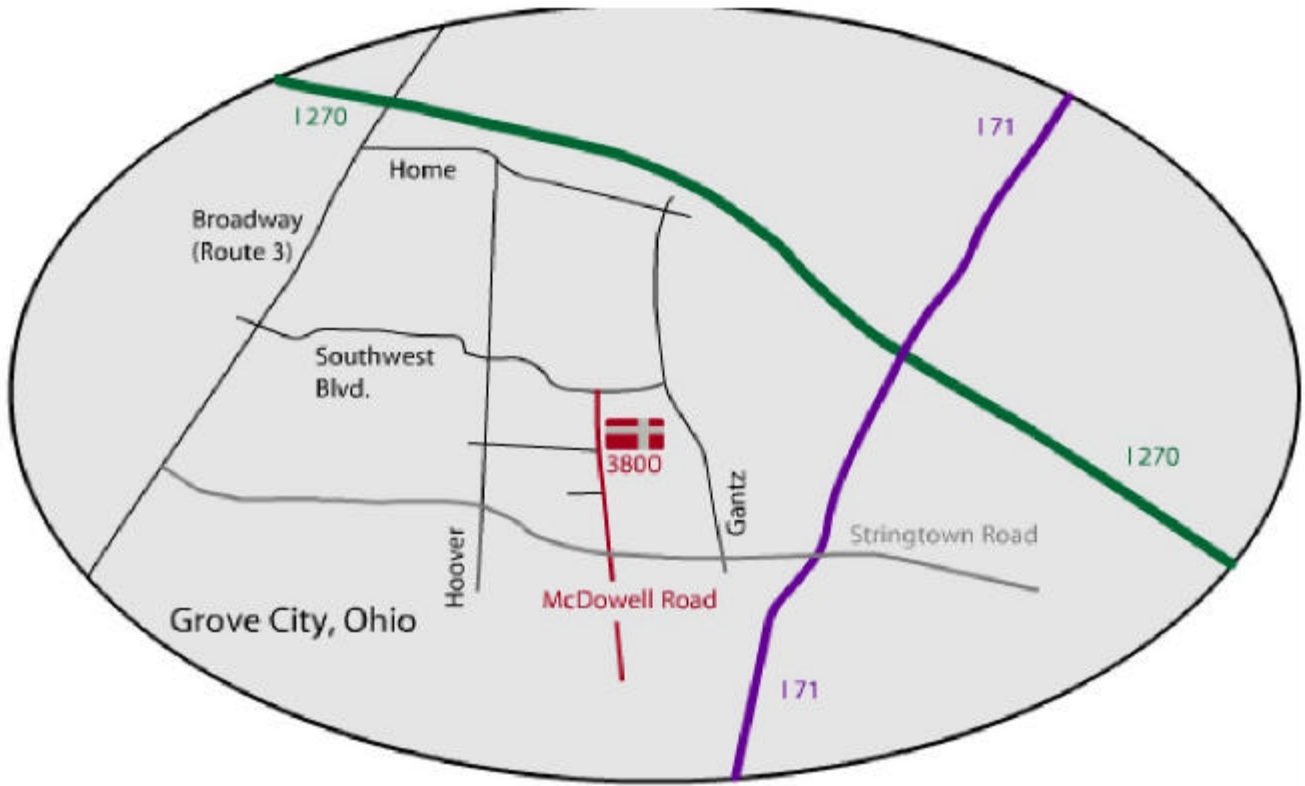
WHO: ASME members, student members, their families, and interested guests.

WHEN: **Thursday, December 18, 2003**
Social/Greetings: 6:00 - 6:30 p.m.
Narrated Tour: 6:30 - 8:00 p.m.
Optional Q&A: 8:00 - 8:30p.m.

WHERE: Horton Emergency Vehicles , 3800 McDowell Road, Grove City, OH 43123

COST: No Fees.

RESERVATIONS: Please RSVP by 4:00 pm Monday, DECEMBER15, 2003. Contact Anup Singh, at (614) 436-0480, (614) 937-8581, or via e-mail asahlawat@hotmail.com.

Horton Emergency Vehicles
3800 McDowell Road
Grove City, OH 43123


DIRECTIONS:

South from Columbus on I-71. Exit at Exit 100, Stringtown Road, just after you cross over I-270, turn right at the light at the end of the ramp, go straight through the first light at Gantz, and turn right at the second light just before the CVS Pharmacy (McDowell Road). Go down McDowell about a half-mile or so and we're on the right. The name "Horton" is on the front of the building and there are usually ambulances out front.

MAP Link:

<http://www.hortonambulance.com/contact.shtml>



OSU STUDENT SECTION TO SPONSOR REGIONAL STUDENT CONFERENCE (RSC) April 1-3, 2004



*The Ohio State University * ASME Student Section * 206 West 18th Ave * Columbus, Oh 43210-1189*

The Ohio State University has been selected to host the 2004 ASME Regional Student Conference (RSC) for Region V in Columbus, Ohio from April 1-3, 2004. We would like to invite you and your company to participate in this event.

Founded in 1880, the American Society of Mechanical Engineers is a nonprofit educational and technical organization serving a worldwide membership of 125,000 including 52 colleges and universities in North America. The purpose of the ASME is to promote the art, science and practice of mechanical engineering throughout the world. ASME has 37 Technical Divisions and Subdivisions, which span from Advanced Energy Systems to Technology & Society. Region V Section Comprises Michigan, Ohio, Western Pennsylvania, West Virginia, and Ontario, Canada.

About 500 Mechanical Engineering students, plus faculty members, are expected for this spring's RSC 2004 conference. To offset the cost of the conference for students, we are sponsoring fundraisers and requesting donations from local and regional ASME members and their employers. It is the OSU student section goal to collect at least \$50 per student to minimize the registration fee to \$90, or less.

A separate OSU student chapter account has been established for donations. Please consider supporting this worthwhile networking and leadership training experience for our future Senior Section members! **INDIVIDUAL SPONSORSHIP:** The Central Ohio senior section has about 800 members. **If each local member donates \$10, the student section would be 1/3 of the way to their goal.**

For **CORPORATE SPONSORSHIP**, a number of recognition opportunities are available:

- ▶▶ **Company name in conference materials** and ASME newsletter
- ▶▶ Recognition and acknowledgement at the conference
- ▶▶ Hyper link to your company website from the Ohio State University ASME Student Section website
- ▶▶ **Display of corporate booth and recruiting materials at the conference**
- ▶▶ **Meet perspective job applicants**

CORPARATE SPONSOR CATEGORIES:

PLATINUM:	\$1000 (sponsors 20 students)
GOLD:	\$500 (sponsor s10 students)
SILVER:	\$300 (sponsors 6 students)
BRONZE:	\$100 (sponsors 2 students)

Please let us know if you can sponsor us via your financial support, **or your time:**

- ▶▶ Help with organization or fund raising
- ▶▶ Meet these student leaders, *many who are seeking co-op positions, internships or full time employment upon graduation.*

We appreciate your consideration and look forward to hearing from you soon. Thank you in advance for making the conference a great success!

Sincerely,

Paul Dimmerling,
RSC Chair
Ohio State University – ASME Student Section

Central Ohio ASME
Senior Section, Executive Committee:
Bart, Dan, Greg, Carl, Anup, Mari, & Bill

Send donations directly to: "RSC Donation * The Ohio State University * ASME Student Section * 206 West 18th Ave* Columbus, Oh 43210-1189 , Attn: Paul Dimmerling." For additional information contact Paul Dimmerling e-mail: dimmerling.6@osu.edu, or Mari Truman email: trumanm1@asme.org.

OHIO NEWS – NEW PE Exam Locations/Dates

Starting in April 2004, all licensing exams may be taken at sites in Cincinnati and Cleveland as well as Columbus. The dates for future Professional Engineering (PE) and Fundamentals of Engineering (FE) exams are given below:

2004 April: PE on Friday 4/16 and FE on Saturday 4/17

2004 October: PE on Friday 10/29 and FE on Saturday 4/17

2005 April: PE on Friday 4/15 and FE on Saturday 4/16

Exam instructions and applications can be found at <http://ohiopeps.org>. The instructions include getting your Ohio PE by comity (reciprocity) for engineers already licensed elsewhere. If you are an engineer living and working in Ohio, you should be working toward getting your PE license.

Purpose and Background of the PE Exam

Pursuing a professional engineering license will be one of the most challenging efforts you undertake in your professional life. Passing your Principles and Practice of Engineering Examination (PE Exam) and earning your license will be one of the most important accomplishments in your professional development -- it will help you throughout your career. Most city, state, and government agencies now require a license for employees who perform almost any engineering duties and many states have enacted legislation that virtually prohibits non-licensed engineers from engaging in private practice. All 50 states have adopted laws requiring engineers to obtain a license prior to doing consulting engineering work and licensed engineers are at the forefront of international development. The recognition of your abilities by your peers, the ability to provide engineering services to the public, and increased earnings potential are some of the reasons to become a registered Professional Engineer.

PE License Procedure

After passing the "Fundamentals of Engineering" (FE formerly EIT exam) exam which covers all of the technical, mathematical, and engineering subjects covered in an undergraduate degree program, the next step, after adequate experience, is passing the eight-hour "Principles and Practice of Mechanical Engineering" (PE) exam. The time factor is significant for both the FE and the PE exams. Most states require four years or more of experience (after graduation or the FE exam) before you can take the PE exam. Both exams are typically given in mid-April and late October. Exam application deadlines may be several months in advance of the exam. Contact your state board of registration to request an examination application, exam date details, and to confirm which reference books will be allowed into the exam.

Candidates: Check out on-line study options offered by ASME...

[ASME Distance Learning - PE Exam Video Review Program and PE Online Review](#)

Be prepared for the exam through the newly revised PE video review and the effective Online learning tool.

[ASME Distance Learning - PE Review OnLine Live!](#)

Plan to take the PE Exam? ASME and Fairfield University have partnered to offer you an online course, PE Review OnLine Live. This course prepares you for the PE Exam, through the convenience of your computer, at home or work, in real time.

The Central Ohio Section News is published monthly from September through May by the Central Ohio Section, ASME International, 503 S. Front Street, Suite 205, Columbus, OH 43215.

The Executive Committee meets the first Thursday of every month at 6:30PM, at Robson Lapina, 503 S. Front Street, Suite 205, Columbus, OH 43215, (800) 654-4344. You're welcome to join!

Give the Gift of Scholarships This Holiday Season

Half of a new paid members' first year dues will fund scholarships for student members.

Send a personalized email to <http://secure.asme.org/mgam/invitationform.cfm> or let us contact your colleague and/or friends on your behalf membership@asme.org.

Member-Get-A-Member Campaign www.asme.org/membershipdrive

*Student Memberships are not eligible
**Include colleagues full name, street address, city, state, and zip, phone (day), and email address

Grants Available, First-Come, First-Serve

The Board on Diversity and Outreach's Partners in Mechanical Engineering (Partners) Program provides grants to ASME Sections for innovative projects and activities that support collaboration with local sections or chapters of organizations that support women and underrepresented minority groups in engineering. Grants are awarded on a first-come, first-served basis and range from \$500 to \$1,000, depending on the size and scope of the activity.

Applications for Partners grants may be submitted throughout the year. For additional information, go to <http://www.asme.org/communities/diversities/bdo/partners.html>

Do you need Guidance, Support or Advice about your Career or Real-World Issues?

As a Young Engineer (0-5 years out of school) or Student member you have access to over 300 experienced engineers with backgrounds ranging from Aerospace, Design, Manufacturing and many other areas of expertise to help you find your way.

Take advantage of the ASME eMentoring program. Sign up for a Mentor today www.asme.org/ementoring !



Student Activity Calendar

December

Dec. 1 [Wise Internship](#) application deadline

Dec. 15 [Solar Division Graduate Student Award](#) – application deadline

January

Jan. 31 [Gas Turbine Industrial Fellows Program](#) – application deadline

Jan. 31 Final Day – Those who have not renewed their memberships are dropped

February

Feb. 1 [Student Section Advisor Award](#) – Nomination deadline

Feb. 1 [NDE Student Paper Competition](#) – abstract due

Feb. 15 [Arthur L. Williston Award Contest](#) – (Civic Service Paper) manuscript due

Feb. 16 [National Engineers Week](#)

ASME'S MEMBER INITIATIVE SYSTEM ON THE WEB

ASME'S Member Initiative System encourages any member or operating unit of ASME to propose improvements to Society policy or procedure or to make any suggestions which would improve the operation or activities of the Society. It's easier than ever to propose improvements and to view proposals submitted by your peers.

To date, there have been 13 proposals submitted, on topics such as "ASME and Iraq Reconstruction" and "Committee on the International System of Units". To view the current year's initiatives, as well as ASME's responses, visit the Member Initiative System web page at <http://www.asme.org/cma/mis.cfm>.



2004 ARTHUR L. WILLISTON AWARD CONTEST

**THE WILLISTON AWARD IS PRESENTED ANNUALLY BY ASME
TO THE STUDENT ENGINEER OR RECENT GRADUATE WHO AUTHORS THE BEST ACCEPTABLE PAPER
IN THE AREA OF CIVIC SERVICE**

TOPIC AREA: The Future Role of Mechanical Engineers in Bioengineering

ASSIGNMENT: The rise in biological applications of engineering has been dramatic, with several of the major biomedical advances of the last decades having a distinctly mechanical engineering base. Indeed some undergraduate engineering programs now include a required course in biology as a first step toward preparing students for careers in which physics and chemistry are not the only basic sciences of importance to engineering applications. Some engineering colleges are forming new departments either in bioengineering, which focuses on the application of engineering principles to the study and control of biological processes, or in biomedical engineering, which applies these processes to improving health and human welfare. A recent study commissioned by ASME entitled "The Convergence of the Life Sciences and Engineering" provides a snapshot of the key forces changing and shaping engineering practice. There is clearly a growing role for mechanical engineers in this shift to engineering that is more biologically centered and the 2004 Williston Paper topic is meant to elicit your views on what this might be.

DEADLINE: Papers must be postmarked by Feb. 15, 2004.

YOUR EMAIL ADDRESS - THE KEY TO ASME INTERNATIONAL

Did you know that your email address is the key to what's happening at ASME? By providing us with your current email address, you can learn about events taking place in your local section, such as professional development courses, industry tours, section meetings, lectures, networking opportunities and technical conferences.

Don't miss out on all that ASME has to offer! Be sure to update your member record every time your email address or contact information changes. Update your information securely online at <https://www.asmeny.org/memberaddr/html/security.htm>, or by phone at 1-800-843-2763.

Get Your Accomplishments Recognized

If you know an ASME member or are an ASME member that has made great strides in the engineering profession, community and the work of the Society - nominations are being accepted for the Young Engineers Award. The ASME member must also have continuous membership since becoming an ASME student member and earned a baccalaureate degree in Mechanical Engineering between the years March 1, 1998 - March 1, 2000.

A **\$5000 CASH Grand Prize** will be awarded, plus a prepaid life ASME membership. All nominations must be received no later than March 1, 2004.

To learn more about the selection criteria and how to nominate, visit www.asme.org/cma/og/youngengineer.html.

*The Young Engineers Award is sponsored by the Old Guard Committee




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