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CHAIR'S MESSAGE

Holidays, Tours, OSU Student Section & Regional Student Conference

Happy New Year to our Central Ohio membership! Nothing is constant but change. Since change can be good, I'm happy to say 2004 promises more of the same. While ASME is in the midst of restructuring at the national level (<http://www.asme.org/change/>) we are in the process of growing and improving in Central Ohio. We hope our members take advantage of the local networking and educational opportunities made available over the next 12 months.

Our thanks go out to Mark Riley and Dan Gallagher from Horton Emergency Vehicles. The tour was well attended and enjoyed by all. Their facility and their manufacturing methods and facility really are impressive. I noticed several new faces in the group. I'm counting on seeing each of you again at the upcoming spring meetings. Again I'd like to thank Anup Singh for providing enough program variety to attract member interest and participation.

This month's program is on Monday January 15, 2004, at the Northwest Library, Worthington, Ohio. Join us for an interesting discussion on Fuel Cell Technologies. Manoj K. Guha has promised to enlighten us concerning the economic, technological and societal barriers to progress.

Remember our OSU student section. Has your company offered to sponsor a student for this year's student RSC? See page 4 for details.

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 members and 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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HOLIDAY SCHOLARSHIPS

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**JANUARY 2004 PROGRAM
"FUEL CELL" TECHNOLOGY**

Speaker: Manoj K. Guha

"Fuel Cell" Technology

In this "Fuel Cell" presentation the speaker will discuss the status of the technology, the reality of the hydrogen economy as well as the sacrifice necessary and the financial incentives required to make the application of this technology possible, say, within next 15 to 20 years.

Rather than discussing the nitty-gritty of the technology Manoj will tackle some of the economic, technology and societal barriers to progress:

"Can you imagine a future with no wars over limited supply of oil? Can you imagine a future with energy sufficiency for every nations of the world? Are these only wild and pipe dreams?"

We hope not. The advancement of fuel cell technology and the use of hydrogen (the most widely scattered energy carrier) can definitely resolve both these issues. But it is not a slam-dunk.

Bring your challenging questions for discussion or debate.

About Our Speaker:

Manoj K. Guha will present the lecture on Fuel Cells. Manoj took early retirement from AEP at the end of 2002. At the time of his retirement, he was the Manager of Corporate Technology Development. Prior to this, he had served in various managerial positions including the position of Director of Market Analysis. Manoj has served with DOE, EPRI and other organizations in several capacities. He has presented and published several papers on various advanced energy technologies including renewable energy. He has presented many papers and published many studies on fuel cells and future of "Hydrogen Economy".

Currently, Manoj is working as a Consultant in the energy field. He has just completed a review of the study titled "Prospect of Integrated Coal Gasification Combined (IGCC) Power Plants in USA" prepared for the Clean Air Task Force by the Northbridge Group.

RESERVATIONS: Please RSVP by 4:00 pm Wednesday, JANUARY 14, 2003. Contact Anup Singh, at (614) 436-0480, (614) 937-8581, or via e-mail asahlawat@hotmail.com.

WHO: ASME members, student members, their families, and interested guests.
(Invite a colleague to check us out!)

WHEN: **Thursday, January 15, 2004**

- SOCIAL/GREETINGS: 6:00 – 6:30 p.m.
- PRESENTATION: 6:30 – 7:30 p.m.
- Q&A: 7:30 – 8:30 p.m.

WHERE: Northwest Library, 2280 Hard Road, Worthington, OH.

COST: No Fees.

RESERVATIONS: Please RSVP by 4:00 pm Wednesday, JANUARY 14, 2003. Contact Anup Singh, at (614) 436-0480, (614) 937-8581, or via e-mail asahlawat@hotmail.com.

Northwest Library
 2280 Hard Road
 Worthington, OH (614)645-2656

Directions: From I-270, take Sawmill Road Exit. Go North on Sawmill Road. Turn right on Hard Road, then turn left at the flashing lights.



MEMBER GET-A-MEMBER New Year Resolution To-Do List:

1. Join a Gym (holiday weight gain)
2. **Participate in the ASME Member-Get-A-Member Campaign!**
3. Relax more this Year
4. Sign up for Graduate School

Be sure to include the Member-Get-A-Member Campaign on your New Years' resolution To-Do list! Introduce a friend or colleague and ASME will spend 50% of the new paid members' first year dues on student members' scholarships.

When you recommend two or more paid new members now until June 30, 2004 you will receive a certificate of appreciation signifying your support of the mechanical engineering community.

ASME will contact your colleagues or friends on your behalf, if you provide their contact information (Full Name, Street Address, City, State, and Zip, Phone (day), Email Address) at membership@asme.org.

For complete details and to learn more about how to get started visit <http://www.asme.org/membershipdrive>

Young Engineer Award: Call for Nominations

Do you know an ASME member that has made great strides in the engineering profession, community and the work of the Society? If so, nominate him/her 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.

\$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



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.



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.

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.

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

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](#)

March

March 1 [Charles T. Main](#) nomination deadline

March 15 Deadline for [2004-05 ASME Scholarship application](#)

March 15 ASME Auxiliary Scholarship – application deadline

March 25 [Fluids Engineering Division](#) – Young Engineer Paper Contest – abstract due

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.

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.

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January 6, 2003

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Chairman

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