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## CHAIR'S MESSAGE

*Old Guard Competition and the RSC at The Ohio State University.*

Spring thaw is around the corner. Our local section has several unique events scheduled for the next two months. The March program promises to be enlightening. Dick Pawliger will be speaking about Technological Advances in power plants.

Thanks to the student section at OSU for another impressive series of presentations in the in the Old Guard Oral Competition at The Ohio State University. **Winners:** First Place - Carlos Castro; Runner up – David Hawn; Third Place- Jessie Little; Fourth Place - Michael Cundy. See Local News for topics.

Corporate sponsors from the senior section are needed to assist the OSU student chapter host the ASME Region V Student Conference April 1, 2 & 3, 2004. I'd like to ask again that the senior members take time to show their support via time or \$.

As a group, EC members are working on a plan to offer local professional development programs/courses in 2004/2005. If your business has a need for specific skill development, please contact any EC member, or drop by our meetings. **This month's EC meeting will be on Thursday March 11 at 6:30 pm in the Robson Lapina conference room located at 503 S. Front Street, Suite 205, Columbus, OH 43215.**

Be well.

Bart

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Chair, ASME Central Ohio Section

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**MARCH 2004 PROGRAM**  
**"A CENTURY OF TECHNOLOGICAL ADVANCES IN THERMAL POWER PLANTS"**

**Speaker: Dick Pawliger**

A century of technological advances in thermal power plants is the subject to be discussed at the March 18 meeting. The discussion will include an overview of the remarkable strides made by Mechanical Engineers since the 1880s in developing power plants that grew progressively larger, more complex and significantly more efficient in converting thermal energy into electricity. The subject will cover the innovations that improved thermal efficiency from less than 3% in 1880 to 40% by the mid 1950s to more than 50% today. The discussion will also cover the several orders-of-magnitude increases in generating unit size from less than 100 kW at the first central power plant to over 1,300,000 kW today.

**About Our Speaker:**

Dick Pawliger, P.E. will lead the discussion. Dick spent his 40-year engineering career with American Electric Power (AEP), rising to the position of Group Manager - Mechanical Engineering. He has been involved in the design, engineering, construction, operation and maintenance of coal-fired, nuclear and hydro-electric power plants ranging in size from 25 MW to 1,300 MW. Dick retired from AEP in 1999. He is a life Fellow of ASME.

**RESERVATIONS:** Please RSVP by 4:00 pm Tuesday, March 16, 2004. Contact Anup Singh, at (614) 436-0480, (614) 937-8581, or via e-mail [asahlawat@hotmail.com](mailto:asahlawat@hotmail.com).

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

**WHEN:** **Thursday, March 18, 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 Tuesday, March 16, 2004. Contact Anup Singh, at (614) 436-0480, (614) 937-8581, or via e-mail [asahlawat@hotmail.com](mailto:asahlawat@hotmail.com).

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**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.

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**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!

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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.





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



*The Ohio State University \* ASME Student Section \* 206 West 18<sup>th</sup> Ave\* Columbus, Oh 43210-1189*

When: **April 1, 2 and 3, 2004**  
Where: **Columbus Marriott North**



## LOCAL MEMBER NEWS, ASME CENTRAL OHIO SECTION

Old Guard Oral Competition at The Ohio State University. **Winners:**

- First Place, \$175 - Carlos Castro, "Multiple Criteria Optimization in Injection Molding"
- Runner up, \$125 – David Hawn, "Determination of the Change on a Constituent Particle of a Coulomb Solid"
- Third Place, \$75 – Jessie Little, "Development and Application of a Visualization Technique for Use with Closed Loop Active Flow Control Studies."
- Fourth Place, \$25 - Michael Cundy, "Study of the Effects of Electro-magnetic Fields on Density Fluctuations in a Supersonic Boundary Layer."

## 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.**

## Winning Strategies to Career Negotiations

### *Tips to getting that raise, promotion or new job*

- **Prioritize your needs.** Define your overall objectives in terms of responsibilities, work environment, salary and benefits—and keep these in focus throughout the discussion.
- **Consider the employer's needs.** The more you understand what the employer is looking for, the more effectively will you communicate your value.
- **Strive for mutual understanding.** “Put yourself in his shoes.” If you keep in mind the other person's style and values, it's easier to overcome areas where you may disagree.
- **Actively listen.** Focus on what is being said, rather than what you wish to say—otherwise you may miss subtle, verbal and nonverbal cues that convey the employer's needs.
- **Be open-minded.** Believing there's just one way to arrive at a positive outcome is very limiting. Instead brainstorm several outcomes that are mutually beneficial and then keep an open mind—an unanticipated solution may present itself through dialogue.
- **Research salary data.** Having objective salary criteria is absolutely critical. Objective data minimizes the emotion of the discussion, as well as provides third-party credibility.
- **Practice, Practice, ...** Role-playing with a career coach, or other objective individual, will show you exactly what you are comfortable asking for and how you come across to others.

Visit ASME's Career Center at [www.asme.org/jobs](http://www.asme.org/jobs) for more information on career building and negotiations.

## 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.

### 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.

## Give the Gift of New Member Scholarships

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](mailto:membership@asme.org).

## Member-Get-A-Member Campaign [www.asme.org/membershipdrive](http://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](http://www.asme.org/ementoring) !



## Student Activity Calendar

### 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

### April

April 15 [Summer/Fall Student Loans – Application Deadline](#)

April 16-17 [Fundamentals of Engineering Exam](#)

### May

May 1 [Deadline for Pre-College Mini-Grant Applications](#)

May 16 [Student Manufacturing Design Competition – project description due](#)

May 30 [Young Design Engineers' Paper Competition – entry deadline](#)

## Don't Forget Your Online Tools for Recruitment and Retention!

Any member who needs to contact dropped members, or who would like to invite a colleague to join can find sample letters, emails, tips for in-person contacts and phone scripts online in the leadership toolbox at:

<http://www.asme.org/leadershiptoolbox/r&r.html>

**ASME Sponsors EPA's 'P3' Award**

ASME is sponsoring the 'P3' Award, a student design competition that will provide grants to teams of college students to research, develop, and design sustainable solutions to environmental challenges.

ASME is one of the Environmental Protection Agency's 27 partner organizations from industry, non-profit and governmental agencies to sponsor the P3 Award.

Eligible teams initially compete for \$10,000 grants. The winners will use the money to research their projects during the academic year. In 2005, the recipients will be invited to Washington, D.C. to compete for the 'P3' award, which will provide further funding for more design development and implementation.

Applications can be found at  
<http://es.epa.gov/ncer/rfa/>

**ASME Announces Conference on Nanotechnology Growth in Biotech and Medical Devices**

ASME's Nanotechnology Institute will sponsor a conference on growth opportunities for the Biotech and Medical Sectors in Nanotechnology from April 15-16 at the National Academies of Sciences and Engineering in Irvine, Calif.

The conference will provide engineers, business developers, and professionals from the biotech and biomedical sectors and students solutions on how to capitalize on the next wave of new technology.

Attendees to the conference will receive a tour of the Integrated Nanosystems Research Facility at the University of California, Irvine.

To register for this conference, or for more information call InfoCentral at (800) 843-2763 or visit the website at <http://www.asme.org/events/nanobio>

**Contribute to METoday**

Share your work/life experiences, expertise and/or lessons learned through the process of building your career. We are looking for non-technical career focused articles and/or ideas geared towards Early Career professionals. Submit proposals to [youngengineers@asme.org](mailto:youngengineers@asme.org) or mail/fax to: ASME, Attn: Cheryl Hasan, Three Park Avenue, New York, NY 10016 or (212) 591-8239, (212) 591-7437.

**ASME and JSME Announce 'ICONE 12'**

ASME and JSME (The Japan Society of Mechanical Engineers) will jointly present the ICONE 12 (12<sup>th</sup> International Conference on Nuclear Engineering) from April 25-29, in Arlington, Va.

ICONE is the premier technical conference on nuclear engineering. This year's theme, Nuclear Energy – Powering the Future, reflects the future changes in the global nuclear industry.

Among the attendees will be nuclear professionals throughout the world who want to stay current on industry trends and developments.

To register, or for more information on this conference, call InfoCentral at (800) 843-2763 or visit <http://www.asmeconferences.org/icone12/index.cfm>



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