April and May Events

Apr 7 – Elections
Apr 13 – General Motors Tour
Apr 14 – Parent Section Dinner Meeting, Guest Speaker from Nooter
Apr 14 – Student/Faculty Forum
Apr 17 – Social Event, FE Exam
Apr 21 – Guest Speaker Glenn Hull
Apr 30 – ME Department Picnic
May 5 – Guest Speaker
May 7 – UMR Power Plant Tour
May 12 – Parent Section Tour of Aston Martin

April 7 – Officer Elections (ME 104, 5:30)
Elections for ASME officers will be held at the general meeting on Wednesday, April 7, 2004. Whether you have prior leadership experience or not, this is an extraordinary opportunity for you to take an active role in ASME. No matter what your background, you are encouraged to run for office. The only requirements are that you are interested in leading and your ASME dues are currently paid.

It is important that all ASME members come to vote for next year’s leadership. This year, elections will be held for the four regular officer positions and four new chaired positions. Candidates should expect to fill the position for a period of one year, from May 2004 until May 2005. The positions up for election are

- Student Section Chair
- Vice-Chair
- Secretary
- Treasurer
- Fundraising Chair
- Newsletter Chair
- Programs Chair
- Trips Chair

Nominations will be taken at the beginning of the meeting. It is accepted practice to nominate oneself if desired. Each candidate will have the opportunity to make a short statement before voting takes place, while all other candidates for the same office leave the room. Voting will be closed-ballot, and will follow the order listed above, starting with Student Section Chair and ending with Trips Chair. If a candidate does not win the first desired position, they may accept nomination for the next desired position, in the order of voting.

The new leaders will take office at the end of the semester, but should plan to meet once a week with the current officers and actively participate in current ASME activities. The importance of this contact with the current officers is to maintain continuity from this year to next year. Officers should plan to be in frequent contact over the summer in order to plan the next year’s program.

April 13 – Tour of General Motors by Beth Hayward
On April 13, 2004 the Rolla chapter of ASME will be touring the General Motors plant in Wentzville Missouri. The Wentzville Plant is a 95-acre automotive manufacturing facility that employs 2,500 people, and produces General Motors and Chevrolet full-size vans.
When the Wentzville Plant first opened in 1982, it manufactured the Buick Park Avenue, then the Oldsmobile Delta 88 and the Pontiac Bonneville. In 1993, the plant closed for two years while the facility retooled in order to begin building the conversion vans. It now produces the Chevrolet Express as well as the GMC Savanna.

The trip will consist of a walking tour of the plant, in addition to an informational meeting with plant engineers. A scrumptious St. Louis dinner will then follow the tour (please plan to buy your own dinner). If you are interested in going on this tour or have any questions, please email Beth Hayward (bhayward@umr.edu) by April 9. ASME will meet at 3:15 in the lobby of the ME building. The best part about this trip is that it’s totally FREE!

April 14 – Student/Faculty Forum (ME 104, 12:00 – 1:00pm)
On April 14, ASME and the Department of Mechanical and Aerospace Engineering will host the Winter 2004 Student/Faculty Forum. Bring your questions, as several professors will be there to discuss the department and address concerns. We will start the forum off with “What are student expectations of the faculty” and “What are faculty expectations of students?” Then we will open the forum for other topics. While questions are encouraged, please keep in mind that everyone is expected conduct themselves in a professional manner. Lunch will be provided courtesy of the MAE Department.

April 14 – Parent Section Dinner Meeting, Guest Speaker
Everyone is welcome to attend this dinner and presentation by Dr. Maan H. Jawad on the Development of Super High Strength Steel. Dr. Jawad is currently the President of Global Engineering and Technology, which provides consulting services to the power and petrochemical industries. He also teaches graduate level engineering courses including Advanced Structural Analysis, Matrix Analysis, Finite Element Analysis, and Theory of Plates and Shells. Previously, Jawad was President of Nooter Consulting Services, Vice President – Research and Development of the Nooter Corporation, and a member of the Nooter Corporation Board of Directors.

The meeting starts at 6:00, so we will need to leave Rolla by 4:00. Please contact Angela Berring (acbn7d@umr.edu) by April 9 if you plan to attend. We hope to see you there!

April 17 – ASME Social Event
Are you a graduating senior with pent-up frustrations from the FE Exam? Or are you a sophomore having a tough semester? Then stop by Coachlite Lanes at 5:30 to relax and have some fun! Bowling is a time-honored non-destructive stress release. It certainly beats putting holes in the walls (and losing your damage deposit). Everyone is welcome!

April 21 – Guest Speaker Glenn Hull (ME 104, 5:30)
Have you ever wondered what’s on your credit report and how it got there? Glenn Hull from Republic Mortgage and Finance will be coming to talk about how to get good credit (and keep it). He will also address what to look for when applying for a loan and what types of loans are available. He will be giving away 2 great prizes, so be sure stop by!

April 30 – ME Department Picnic (Lions Club Park, 3:00)
Join us at the Lions Club Park for another fun and exciting ME Department Picnic! All students, faculty, and staff are welcome to attend. The picnic will start at 3:00, with barbeque and refreshments provided by the ME Department. Several members of the Academy of Mechanical and Aerospace Engineers also plan to attend, making this a great opportunity to network.
May 5 – Guest Speaker TBA (ME 104, 5:30)
The May 5 meeting will be our last meeting of the semester. We will be giving an overview of what happened this semester and present preliminary plans for next semester. Afterward, we will have a guest speaker. Refreshments will be provided.

May 7 – Tour of the UMR Power Plant
Have you ever wondered what the inside of a power plant looks like? Now is your chance to find out. Approximately 10% of the electricity used on campus is generated by the UMR Power Plant. The plant burns coal and woodchips to generate steam, which is then used for heating buildings. A back pressure turbine is used to reduce the steam pressure and generate electricity. The tour will be 30-45 minutes, and will encompass the turbine, boilers, and piping system. This is a great opportunity to see thermodynamics in action.

May 12 – Parent Section Tour of Aston Martin
If you don’t have finals Wednesday afternoon, you definitely don’t want to miss this tour! The details have not yet been finalized, but we’ll forward the information as soon as we get it.

Student Section News

Region VII Student Conference Results, March 11-March 13 2004
The University of Missouri – Rolla (UMR) Student Section of the ASME is proud to report on the many successes at this year’s Regional Student Conference (RSC). This year, 9 students and Student Section Advisor Dr. Brad Miller participated in the conference. In attendance were Student Section Chair Alan Pilch, Vice-Chair Misty Mills, Secretary Angela Berring, and Student Members Cameron Bahram-ahi, Prem Midha, Dustin Mitchell, and Pradeep Nambiath. Student Members Chester Grohs and Bryan Sartin were unable to attend the conference, but worked many long hours to prepare the Design Competition entry.

The conference was marked by significant participation within the Student Section. Angela Berring, Chester Grohs, Prem Midha, and Bryan Sartin entered a device in the Student Design Competition. Dustin Mitchell participated in the Old Guard Oral Presentation Competition. Prem Midha submitted an entry to the Technical Web Design Competition. Alan Pilch gave a training session entitled, “Marketing your ASME Student Section.” Besides the individual participation, UMR made the Region take notice with a strong showing in the Ingersoll-Rand Competition and the Early Bird Competition.

Dustin Mitchell received awards for Best Technical Content and Third Place in Region for his oral presentation, entitled, “A Comparison of the Power Output of Five Biodiesels.” For his web site titled, “Behavior-Based Control of Multiple Robots,” Prem Midha received awards for Best Technical Content and First Place in Region. Student interest in RSC was proven with Second Place in the Early Bird Competition, which is based on attendance and participation in the Friday morning program, and the students proudly received awards for Most Improved Student Section and Third Place in Region for the Ingersoll-Rand Competition, showcasing the incredible improvement in the overall activity of the Student Section program this year.
Scholarships and Loans
Loans are still available! The ASME Auxiliary and ASME Student Loan Fund are offering low-interest loans to qualified ASME student members. Selection is based on academic performance, character, need, and ASME participation. Applications for the ASME Auxiliary loans are accepted year-round, but the deadline for ASME Student Loan Fund is April 15. More information is available at http://asme.org/auxiliary/scholarshiploans/ and http://www.asme.org/education/enged/aid/loan.htm

2005 Student Design Competition
The 2005 ASME Student Design Competition has been announced. The competition is to build a bulk material transportation vehicle that will move the most material from the start to the finish of the competition field in a ten-minute time period. Our competition field has been built, and is available for use in the ME 161 lab, located in the ME Annex. Please contact Alan Pilch (acpgcb@umr.edu) for more information, or if you would like to see the field. Detailed rules may be found on the ASME web site at http://www.asme.org/students/Competitions/designcontest/2005/index.html.

Past Events

Paul Worsey from Rock Mechanics and Explosives
On March 3, Dr. Paul Worsey came to talk about the Rock Mechanics and Explosives Research Center. He showed us several videos and gave a mildly explosive demonstration. If it hadn’t been raining, there would have been more live demos! Dr. Worsey also showed us several examples of the types of explosives and blasting caps used in mining and demolition work. It was a great presentation, and provided a good incentive to take an elective in explosives!

General Meeting
The meeting on March 24 was very informative. The officers discussed our section’s recent successes at the RSC and gave an overview of officer duties. Details of the upcoming tours were also given. At the end of the meeting, preliminary nominations for office were taken.

Is there anything else you would like to see in this newsletter? Contact Angela Berring (acbn7d@umr.edu) with comments or ideas.

2003-2004 UMR Student Section Officers

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**ASME Sponsors the ‘P3’ Award**

ASME announced its partnership with the Dept. of Environmental Protection and other companies in the public and private sector to launch the ‘P3’ Award, which will provide grants to college students to design and develop sustainable solutions to environmental issues.

The P3 Award Competition has two phases: initially teams compete for $10,000 P3 grants. Recipients use the money to research and develop their projects during the academic year. Then in spring 2005, the P3 grant recipients will be invited to Washington, D.C. to compete for the P3 Award which conveys additional funding for further design development and implementation.

The deadline for applying for the P3 Award is March 24. For more information, visit [http://es.epa.gov/ncer/p3/designs_sustain_rfp.html](http://es.epa.gov/ncer/p3/designs_sustain_rfp.html) or contact Julie Zimmerman, U.S. EPA Office of Research and Development at zimmerman.julie@epa.gov.

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**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.*

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**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, 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](http://www.asme.org/events/nanobio).
Manage Transition with Ease: E-mentoring

Access a network of practicing engineers right from your computer!

Ask career questions, get a real-world perspective on day-to-day issues in the workplace and learn more about other career alternatives. A mentor can help you get the right training, find the right niche in mechanical engineering, and help you transition more easily into the working world.

There are over 300 Mentors from various backgrounds: Aerospace, Biomechanics, Design Engineering, Petroleum, Power, Pressure Vessels & Piping, Nuclear Engineering, Process Industries, Engineering Sales & Marketing and more.

E-mentoring is available to all ASME members with five years or less work experience in the engineering field. So sign-up for a Mentor today! https://secure.asme.org/signin/mentoring.cfm

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 or mail/fax to: ASME, Attn: Cheryl Hasan, Three Park Avenue, New York, NY 10016 or (212) 591-8239, (212) 591-7437.

BDO’s Grants Available to Sections

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

Student Activity Calendar

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

June

June 1 Letter of intent for Hydro Power Contest

June 1 Petroleum Division Student Scholarship Program

June 30 Solid Waste Processing Division – Scholarships for graduate and undergraduate study – application due

June 30 Student Section officer listing due

June 30 Student Section financial report due

Member-Get-A-Member Campaign

Recruit new members and receive a ‘Certificate of Volunteerism!’ *

50% of their 1st-yr dues will fund scholarships for ASME student members. Any member that has been out of school 4 years or less saves up to 60% on dues.

Campaign Details:

Up to 60% dues savings:
http://www.asme.org/member/info.html#dues

*Must recruit 2 more new members to receive certificate.
The ASME Email Alias – Now With Virus Scanning!

Were you bombarded with unusual emails last month? MyDoomA, also known as Novarg or Shimgapi, emerged last month in the form of a spam e-mail message that contained a well-disguised virus attachment. MyDoomA has been described as the most damaging attack since last summer's twin Blaster and SoBig outbreaks.

ASME has upgraded its anti-spam service to include virus scanning. All mail sent to your @asme.org email alias will first be scanned for viruses using McAfee, a leading provider of anti-virus software. Suspected virus-infected and spam emails are quarantined in Postini’s inbox, where you can view, delete, or forward these messages to your inbox.

ASME has contracted these services from Postini, a leading provider of email security services, in response to the growing problem of unsolicited and virus-infected messages. Such services can cost as much as $30 per year, but are available to ASME members for free!

Only addresses with the @asme.org domain can be registered for this service. If you are currently using the alias system, then you have already been activated. To create your ASME email alias, visit the “Members Only” site at www.asme.org. Shortly after your alias has been established, you will receive your Postini account information and temporary password.

To learn more about ASME’s virus-scanning and spam-filtering services, visit http://www.asme.org/email/.