

The Lobby

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A Newsletter for the students, faculty, and staff of the Mechanical Engineering Department at the University of Wisconsin-Madison

UW Invades Southern Illinois

Jeff Hegedus, Conference Chair

What do you get when you combine 14 ASME'ers, 900 miles of driving, and three days of fun and learning? That's right; you get the 2004 Regional Student Leadership Seminar, hosted brilliantly by Southern Illinois University in Carbondale.

The trip began midmorning on Friday, October 8 just outside of the ECB. The 7 hour drive down to Carbondale went very smoothly, except for the one van that got lost on 4 separate occasions... but they only arrived 3 hours late. After checking into the hotel, the festivities commenced at the Giant City State Park just south of Carbondale, with a fried chicken buffet and two impromptu design contests. UW showed that a Badger is, indeed, smarter than a Saluki by using 12 sheets of paper and some duct tape to build a

giant golf ball tee, 6' 4" tall. The social activities Friday night began with a toast to the ASME All-Star, who parties hard all night and works hard all day. Last one to bed, and first one awake.

The following morning, the attendees lived up to the All-Star Ideal, as every single ASME'er was awake, packed, in the vans, and at the SIU Student Center by 7:00 am to be the first ones at breakfast. The conference began with a speech by the Regional SSC Rep, and continued with personal development workshops. A very excellent workshop on Transitioning from Engineer to Manager was presented, as well as sessions on interpersonal skills and hosting a meeting. After lunch, two additional sessions provided information on

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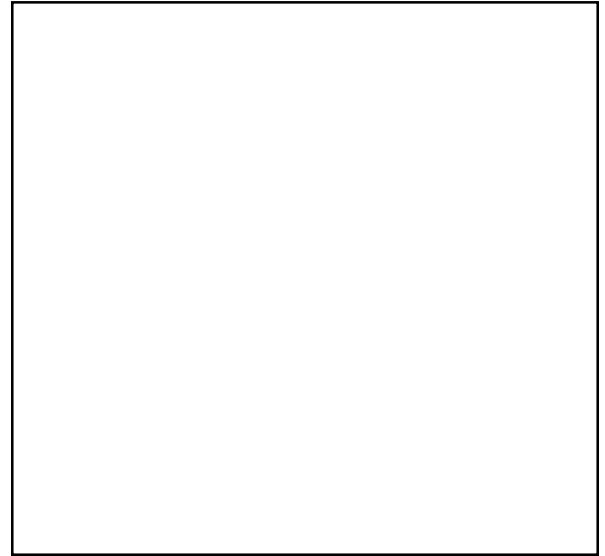
High School Day on Campus

Dana Schwarz, Outreach Chair



On Friday November 5th a few high school-ers decided to take a day off of classes and come to Madison to learn what engineering was really like. The day started off with a little breakfast and some speeches by Chandler Nault, Mark Mastalski, and Dean Woolston. We had some extra time so we ended up talking to the kids about what college was like. The students then headed off on tours of the trace center, automotive center, nuclear reactor, and Camp Randall. From what I hear, the stadium tour was phenomenal; the group was lead into the box seats and also got to hear about the renovation and the engineering that went into it. After the tours, the students had lunch in the ECB lobby, looked at some displays by engineering organizations, and chatted with ASME members. They then headed back to the presentation room and participated in a design competition which required them to build a sailboat that would float down a little moat with the power of a fan. The designs were elaborate and all groups were quite successful. We handed out prizes to the winning team and also to the winner of the scavenger hunt that'd been going on all day. The highlight of the day came at the end. I could tell the students were itching to ask some questions so I sent the chaperones into the

hallway and the students really opened up. It was fun to tell stories, and hear from them about what they thought college would be like. All in all the day was quite a success. At first we were upset by the low turnout compared to years past but the quality of the day more than made up for it. There was not a single negative comment in the evaluations and many of the schools have already contacted me about coming back next year. Special thanks to Nikki Zabel, Eddie Thurow, and Justin Kutney for all the hard work they put into planning this event.



HPVC Update

Alex Hanson

As the first semester is nearing its end, The Human Powered Vehicle Team is completing designs for their first ever H.P.V. competition. With a small, but dedicated group of students we have created a completely original design that has people buzzing. We are continuing to work hard on this project with collaboration from Trek bikes, whose help as been undeniable.

In last part of the semester we are going to begin prototyping our design after model verification using the Solidworks 3D modeling program. We will begin building the vehicle during the winter break and look to have it done in late February. We are all excited to go to competition this year to test our first human powered vehicle, and are still looking for any ambitious people to help us on our quest for excellence.

ASME

Spring Semester Kickoff Meeting

Tuesday January
18th, 2005

5:30 PM

Engineering Hall

Food

Soda

Entertainment

Prizes

Bulk Material Transporter

Jessi Sanfilippo, Contests Chair

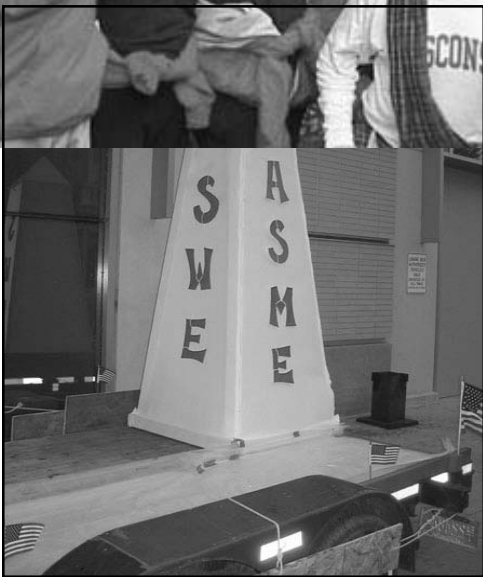
People everywhere have difficulty transporting bulk materials in moderate amounts, particularly when the materials must be carried up stairs or over hills and rough terrain, or when the space available for moving the materials is too small to allow conventional automotive vehicles to be used. We are challenged to design a small transporter that could be guided by one person and could deliver moderate amounts of granular materials. We must demonstrate our design concept using a small working model of your device. The constraints and design testing procedures for our device follow.

To prove the concept we will design a prototype system that will be used to transport a granular material (rice, in this case) up and down a stair setup and empty as much rice as possible into a receiving container within a ten-minute time limit. In this ten-minute period we will set up our device and run as many trips as possible, but we can only place the rice in our device in the loading area and can only empty it into the receiving area from the discharge step. To make multiple trips, we must return to the beginning by way of the steps. The amount of rice per trip is up to our team.

We currently have a tank type design. We will need help designing the device this semester and fabricating it. It will be held during the Regional Student Conference in May. If you are interested in any contest please contact Jessi Sanfilippo at jessis@asme.org or <http://www.asme.org/students/Competitions/designcontest/2005/> for more information. We are looking for new ideas of yours and seeing you at our next meeting in front of the ASME office (1082 ECB).



Diagram of Stairs



The Regional Student Conference (RSC) also has contests including oral presentations or poster competitions. So if you have been part of creating an engineered device for such classes as EPD 160 or any senior design classes you might be interested in one of these challenges.

Let the Good Times Roll

Nick Sales, Industrial Relations

Friday, November 19, 2004 marks a night that will not be forgotten quickly. It was on that night when a bunch of ASME'ers put on formal attire to attend the SWE winter formal at the Edgewater Resort. The whole night was a blast, right from the beginning to all the way back to where everything started.

Prior to arriving at the formal, the evening got kicked off at our very own Chandler Nault's house. Guests, both ASME'ers and SWE'sters, arrived at around 7:00 P.M. and the cocktails were being poured at around 7:05 P.M. The game of quarters was started in the social room of third floor. The game got large enough to have three glasses involved and at one point four. The blender was about to overheat and the bartenders were running out of ice so this was about the time for the crowd to press on.

Through some great planning, Chandler's was only four blocks from the formal which made the walk brief. Upon entrance of the Edgewater, the men kindly took the jackets from the ladies for checking. Then the dancing started. There was a great selection of music, obviously not enough country but the DJ had to please everyone. ASME was dancing with everyone; there was not a person that was left out. Before anyone had realized, midnight had fallen upon us and the formal was over.

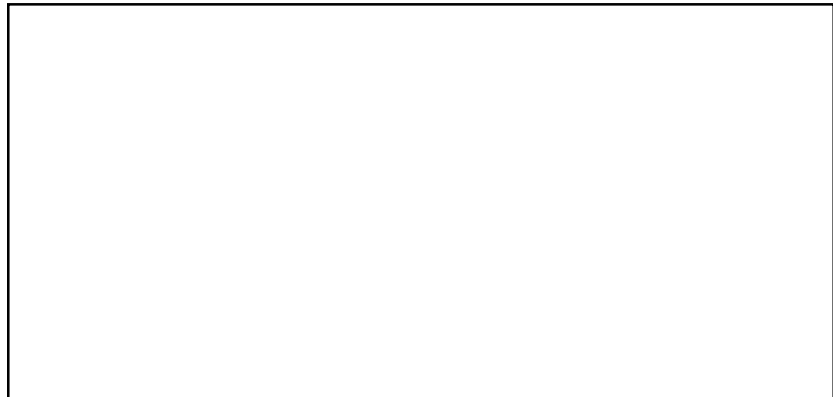
So back to Chandler's to fire up the blender and finish the cocktails. They were finished in a flash and the dispersion of the group was quick. This is where the night ended for some but yet began for others, right Chandler.

Altogether fun was had by all and there should be more events like the formal to bring together organizations from all of the engineering campus.

RSLS Continued...

student contests, and Continuity and Change within ASME International.

After the official conference was over, a few brave souls headed back to Madison, while the rest of the crew headed to St. Louis for additional festivities. The Gateway Arch was unfortunately closed for the day, but ASME's spirits were not dampened, and the



night continued with much studying of Fluid Mechanics. The next morning, the crowd diminished even further, but a loyal contingent decided to study some engineering marvels by actually going to the top of the Arch and learning about how it was designed. The shape of the curve was derived using cosh and sinh functions – apparently they are actually used for something other than confusing you in calculus class. There was also some discussion about the wisdom of using both carbon steel and stainless steel in the same structure, but all fears of a corrosion cell were alleviated by the presence of a concrete layer in the middle. Finally, the Anheuser Busch Brewery was toured, and many lessons were learned about managing millions of gallons of tasty refreshment, as well as the bottling system.



Sign up for the ASME mailing list

Go to:
www.cae.wisc.edu/~asme
to sign up.

**New members are always
welcome at ASME events!**

Students and Alumni Convene at the Dane

*Dusty Brunner,
Conference Chair*

Students and alumni converged earlier this month to socialize and reminisce over memories of the past. November 5th the annual fall alumni event took place. Attendance was twelve, up from earlier years. We were privileged to have Jennifer Bauer in town for the weekend, a former Madison ASME Student Section chair. She was kind enough to share many of her trials and tribulations. Let's just say we are now more cultured in life.

Previously events consisted of a golf outing and accompanying picnic. This year things



an informal setting with alumni, and find out what is out there after college. Next year we plan to have even more students and alumni get together. Look for the next student-alumni social happening later next semester.

Brain Teasers

1. A murderer is condemned to death. He has to choose between three rooms. The first is full of raging fires, the second is full of assassins with loaded guns, and the third is full of lions that haven't eaten in 3 years. Which room is safest for him?
2. A woman shoots her husband. Then she holds him under water for over 5 minutes. Finally, she hangs him. But 5 minutes later they both go out together and enjoy a wonderful dinner together. How can this be?
3. There are two plastic jugs filled with water. How could you put all of this water into a barrel, without using the jugs or any dividers, and still tell which water came from which jug?
4. What is black when you buy it, red when you use it, and gray when you throw it away?
5. Can you name three consecutive days without using the words Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday?
6. This is an unusual paragraph. I'm curious how quickly you can find out what is so unusual about it? It looks so plain you would think nothing was wrong with it! In fact, nothing is wrong with it! It is unusual though. Study it, and think about it, but you still may not find anything odd. But if you work at it a bit, you might find out!

Go to <http://www.katieames.com/forward18.htm> for answers.

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