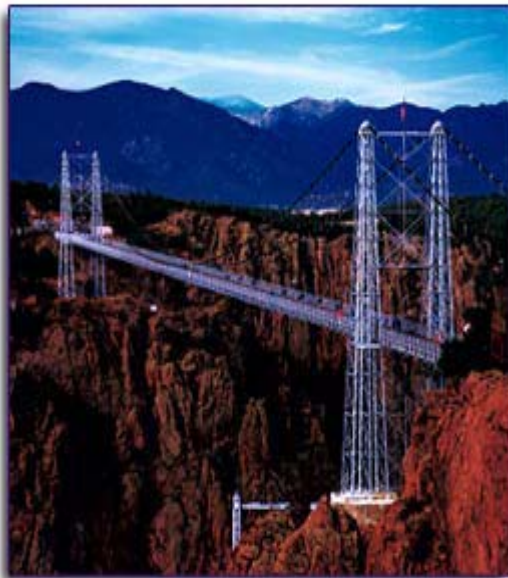


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THE BRIDGE

*Newsletter for
Students of
Civil and Environmental
Engineering
UMASS - AMHERST
January 2006*

Civil Fair 2006

WHAT: Civil Fair 2006

WHERE: Guinness Student Center

WHEN: February 23, 2006

TIME: 10:00 am to 3:00 pm

WHO: All students interested in Civil Engineering careers

The Civil and Environmental Engineering Department invite all CEE students to attend the 6th Annual Civil Fair. The Civil Fair is a wonderful opportunity for firms and companies to seek qualified interns, co-ops and full-time employees and it is also an opportunity for you to connect with employers!

Last year more than 15 companies attended the Civil Fair. Some of the companies attending this year include:

- Beals and Thomas, Inc.
- Camp Dresser & McKee, Inc.
- Daniel O'Connell's Sons
- Dufresne-Henry
- Environmental Partners
- Fuss & O'Neill, Inc.
- GZA Geo Environmental, Inc.
- Hatch Mott MacDonald
- Langan Engineering and Environmental Services
- MA Highway Department
- NH Dept. of Transportation
- Sanborn, Head and Associates, Inc.
- Stormwater360
- Tata & Howard, Inc.
- Tighe & Bond
- Vanasse Hangen Brustlin, Inc.
- Woodard & Curran
- Wright-Pierce

Quote

"Engineering is a great profession. There is the satisfaction of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings homes to men or women. Then it elevates the standard of living and adds to the comforts of life. This is the engineer's high privilege."

(Herbert Hoover, 1874-1964)

Spring Tentative Graduation List

- Nicole M. Baldvins
- Roger E. Beaudoin
- Lee G. Borthwick
- Vladimir J. Caceres
- Jillian B. Carty
- Ross A. Clay
- Lauren M. Dutra
- Erica L. Guidoboni
- Ethan B. Jackson
- Tameron J. Josbeck
- Joseph M. Kenney
- Patrick Malone
- Luke E. Matton
- Michael J. Mitchell
- Kevin D. Moriarty
- Ammie Rogers
- Ryan J. Siegel
- Matthew W. Skelly
- Charles N. Tripp
- Raymond Vasquez
- Michael H. Yau
- Bryan J. Balicki
- Adam J. Bilancieri
- Ymane J. Bouramia
- Colleen M. Carrigan
- Zachariah P. Chornyak
- Alex P. Dobiecki
- Dennis A. Griecci
- Brian D. Harris
- Matthew C. Johnson
- James M. Karalekas
- Michael J. Maggiore
- Lindsey Mantha
- David P. Maynard
- Kyle J. Mole
- Michael V. Nelson
- Jill A. Russell
- Jonathan M. Sieruta
- Dawid P. Szymczakiewicz
- Michael C. Tupper
- Brian T. Waterman

If your name appears here and you are not planning to graduate after this semester or if you are planning to graduate after this semester and your name is not on this list please see Jodi Ozdarski in 226 Marston Hall as soon as possible. Each student must check with Dr. Lardner in 234A Marston Hall to be certified for graduation.

Fall 2006 Pre-Advising

CEE professors and CEE students made the Spring Pre-Advising 2006 a great success! Once again Jodi Ozdarski directed everyone to make sure the event went without a hitch.

Pre-Advising for Fall 2006 is set for April 6th from 4:00 pm to 7:00 pm in the Guinness Student Center! Jodi will be sending out more information.



Save the Date

- **February 19th to 25th:** National Engineers Week
- **February 22nd:** History & Heritage Lecture (tentative)
- **February 23rd:** Civil Fair 2006
- **March 18th:** Spring Break Begins
- **April 6th:** Pre-registration for Fall 2006 from 4:00-7:00 in the Guinness Student Center. More information will follow in the next Bridge.
- **May 17th:** Last classes
- **May 18th:** Reading Day
- **May 19th:** Finals begin
- **May 20th:** Reading Day
- **May 22nd – 26th:** Finals resume
- **May 27th:** Graduate Commencement at the Mullins Center
- **May 27th:** College of Engineering Commencement Celebration & Reception
- **May 28th:** Undergraduate Commencement, McGuirk Alumni Stadium

Fall 2006 Electives

ENVIRONMENTAL

CEE 469	Water Supply & Wastewater Collection
CEE 560	Hydrology

GEOTECHNICAL

CEE 421	Foundation Engineering
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STRUCTURES

CEE 434	Design of Steel Structures
CEE 536	Reinforced Concrete
CEE 549	Stability
CEE 590B	Bridge Design

TRANSPORTATION

CEE 518	Intelligent Transportation Systems
CEE 590T	Traffic Flow Theory

Independent Study

Dr Lutenegger is looking for two students who are interested in an Independent Study. The projects involve the *Influence of Particle Shape on Minimum and Maximum Density of Sand* and *Laboratory Determination of Ko for Pure Clay Minerals*. If you are interested in either of these projects, contact Dr. Lutenegger at lutenegg@ecs.umass.edu.

Scholarship News

The College of Engineering will be selecting undergraduate students to receive Engineering Scholarship awards for the Fall 2006 - Spring 2007 academic year. These awards come from a variety of sources within the College and vary in amount and number (based on available resources). The selections are made by a Faculty Scholarship Committee. Students who are currently freshman (but will be sophomores Fall '06) are eligible to apply, as are current sophomores and juniors.

These scholarships are used to help meet the financial needs of deserving engineering students. Different awards vary in their eligibility criteria. In general, academic performance (2.5 GPA or higher), financial need, and activities are the primary criteria for full-time students majoring in engineering.

The deadline to return completed applications is February 15, 2006. You will be notified in May if you have received an award. Please note: the scholarship application process will only be done once a year. Therefore, it is very important that you complete your application by February 15th to be eligible for any scholarships for next fall (2006) and spring semester (2007). For more information and a complete listing of Engineering Scholarships please visit the scholarship website: <http://www.ecs.umass.edu/scholarship.html>

Web Sites

**National Engineers
Week Web site:**
<http://www.eweek.org/>

**Dr. Reckhow's Project:
Evaluation of Ozone
and Ultraviolet Light**
<http://www.aeee.net/newlook/E3ResGP.html>

**A sightseer's guide
spotlighting how
engineers improve our
lives:**
<http://www.engineeringights.org/>

FE Exam Information:
<http://www.nspe.org/lc1-examprep.asp>

Scholarship Information:

<http://www.ecs.umass.edu/scholarship.html>

Resource Room in Marston Hall

The Resource Room in 17 Marston Hall is now available as a team room or a student meeting room. If you are interested in reserving the Resource Room please stop by 224 Marston Hall to schedule your time in the reservation book.

FE Exam Information

2006 Exam Dates

April 21 (PE, PLS), 22 (FE, FLS)

October 27 (PE, PLS), 28 (FE, FLS)

For more information and study guides for the FE exam please visit the National Society of Professional Engineers (NSPE) website at: <http://www.nspe.org/lc1-examprep.asp>

Faculty News

Congratulation to Dr. Reckhow who was part of the winning team for the 2005 American Academy of Environmental Engineers Project with "Evaluation of Ozone and Ultraviolet Light". The American Academy of Environmental Engineers is dedicated to excellence in the practice of environmental engineering to ensure the public health, safety, and welfare to enable humankind to co-exist in harmony with nature. The project is a response to the threat of waterborne diseases caused by Cryptosporidium, Giardia lamblia, E. coli, and other pathogens, the U.S. Environmental Protection Agency formulated more stringent regulations requiring a higher level of water disinfection yet lower levels of harmful disinfection byproducts. The combination of ozone and UV was an exciting possibility but little was known about their interaction between the two. Credible research was needed to determine whether the combination could inactivate target pathogens without adversely affecting distributed water quality. For complete information about the project please visit: <http://www.aeee.net/newlook/E3ResGP.html>



Dr. Knodler has been elected to a Director position on the New England Section of the Institute of Transportation Engineers (ITE)! Dr. Knodler has been involved with ITE Student Chapters as both a student and an advisor. Congratulations!



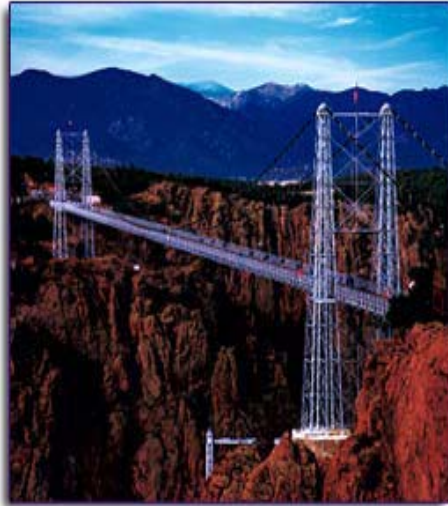
During Winter Break **Dr. Civjan** was the guest lecturer for a group of up and coming young Engineers; the Kindergarten class at a local Elementary school! Looks like Dr. Civjan and the future engineers had an enjoyable time learning and ready for anything in their hard hats!

Contact Us

nofio@ecs.umass.edu

Locate and Name This Bridge!

The world's highest suspension bridge is over a quarter of a mile long and hangs 1,053 feet above the roaring Arkansas River. Engineering facts include: construction began June 5, 1929 and was completed Nov. 1929; length is 1,260 feet and width is 18 feet; main span is 880 feet; towers are 150 feet high; 2,100 strands of No. 9 galvanized wire; weight of cables is 300 tons; 1,000 tons of steel in the floor of bridge; walkway is made of 1,292 planks of deck and about 250 are replaced annually; original cost to build was \$350,000—cost today is about \$20 million. The bridge will support in excess of two-million pounds!



Email your answer with the location and name of this bridge to nofio@ecs.umass.edu and correct entries will be eligible to win a prize! The winner

will be drawn on February 15, 2006!

Updates From Student Engineering Groups

ASCE (American Society of Civil Engineers)

Faculty Advisor: Dr. Alan Lutenecker

President: Matt Skelly

The ASCE Officers

President, Matt Skelly

Vice President, Elsbeth Hearn

Treasurer, Lucy Hayes

Secretary, Julie Gagen

Director of Fundraising, Eric Magazu

ASCE is planning to participate in the:

Concrete Canoe Competition contact Elsbeth Hearn at ehearn@student.umass.edu for more information.

Steel Bridge Competition contact Nikki Baldvins at nbaldvin@student.umass.edu for more information.

Wood Bridge Competition (through AGC) contact Matt Skelly at mwskelly@student.umass.edu for more information.

If you are interested in participating or want more information please contact us!

ASCE is planning community service projects which include a wheelchair ramp design and taking Springfield middle school students on a tour of a bridge in Springfield.

Our first meeting is Thursday, February 16th. Please join us to discuss these topics and many more!

EWB (Engineers Without Borders)

Faculty Advisors: Dr. David Ahlfeld, Dr. Sharon Long and Dr. John Tobiason

President: Bree Carlson

EWB-UMass is a group of engineering and non-engineering graduate and undergraduate students whose mission is to help disadvantaged communities improve their quality of life by developing environmental, equitable, and economically sustainable engineering projects.

This semester, EWB-UMass is working on two phenomenal projects within Massachusetts. EWB is working with the Lena Park Community Development Corporation integrating green design and principles of sustainability into a low-income development in Mattapan. EWB is also working with the reVision House, a homeless women and children's shelter, to upgrade their aquaculture program and organic farm.

In November EWB-UMass was awarded its first international project, which involves finding a source of potable water for a village in Kenya.

If you are interested in getting involved, please come to our Feb. 6th meeting (6:30, Marcus Hall Student Center Conference Room), visit our website (www.ewb-umass.org), or email President Bree Carlson (bcarlson@ecs.umass.edu).