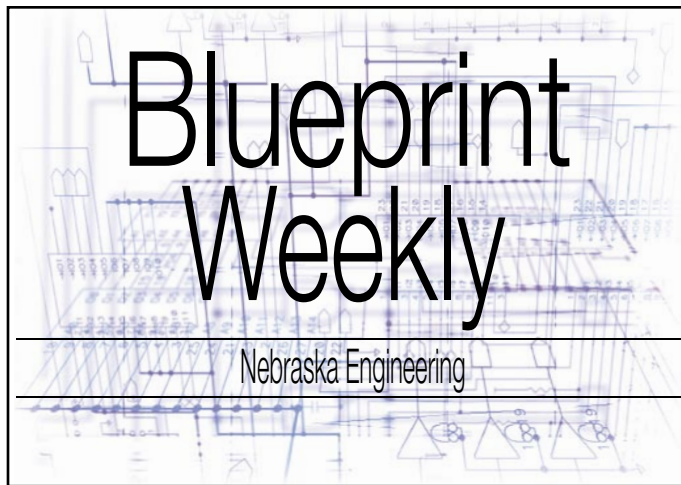


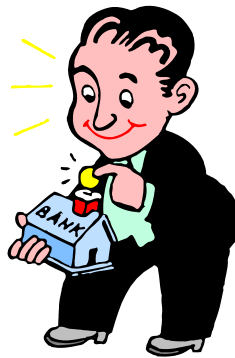


Penny Wars are Over!

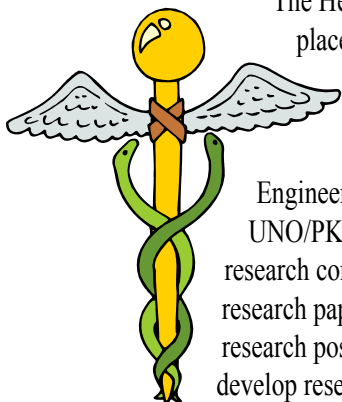
The Society of Women Engineers (SWE) would like to thank Nebraska Engineering for making our first Penny War a success. All money collected will be used for the scholarship SWE awards each year to a UNL SWE member. The Dean's Office won the War with a total of 7368 points (\$102.28). They received a donut party from Super Savers on Fri. March 4. The final Penny War totals were:

- 2nd Civil Engineering
- 3rd Agricultural and Biological Systems Engineering
- 4th Construction Management
- 5th Industrial and Management Systems Engineering
- 6th Mechanical Engineering
- 7th Engineering Mechanics
- 8th Electrical Engineering
- 9th Chemical Engineering
- 10th Computer Engineering

We appreciate all the support shown to SWE by Super Saver and the College of Engineering & Technology. We hope to bring Penny Wars back next year!



Biomedical Engineering Symposium



The Heartland Biomedical Engineering Symposium will take place on Mon. April 18, to provide a research forum with interdisciplinary discussion with relevance to Biomedical Engineering. This event will be a unique opportunity to learn about the laboratories performing Biomedical

Engineering research in Nebraska. Various lab leaders from UNMC, UNO/PKI, UNL and Creighton will give short talks summarizing the research conducted in their laboratories. Additionally, 12 selected research papers/abstracts will be presented, and a good selection of research posters. It will give you an opportunity to discuss, contribute, develop research collaboration or even seek summer internships or other employment with these research teams. There is no cost for those

who register by April 1, and a continental breakfast and lunch are included. Student participation is strongly encouraged. To register, please e-mail Dr. Hani Haider at hhaider@unmc.edu. For further information, visit <http://www.biomedicalengineeringresearch.org/>.

NSF Research Experiences for Undergraduates (REU)

http://www.nsf.gov/crssprgm/reu/reu_search.cfm

Serve Your College

Applications are now being accepted for 2005-06 PKI Student Diplomats. Applications are due on April 15, in PKI 107.

Interested applicants must be a Full-time sophomore, junior or senior in the College of E&T, must have a minimum GPA of 2.75 and be in good academic standing. Students should also possess good knowledge of offerings in the college and the university, and demonstrate leadership and good communication skills. Scholarships are provided.

ECMA Conference 2005

The 2005 Engineering College Magazines Associated (ECMA) Conference is being hosted by Nebraska Blueprint Magazine this year. The conference, which is being held April 7-9 at the Cornhusker Hotel, will feature workshops on Digital Photography, Science Writing, Communicating Science to the Media, Advertising, and Team Building. The conference will open with a free No Limit Hold 'Em Poker Tournament, with lots of prizes. The cost of attending the conference is \$40 for UNL students, staff and faculty. For more information, visit the conference Web site at <http://www.nuengr.unl.edu/cet/ecma2005>.

Thought of the Week

Accustomed to the veneer of noise, to the shibboleths of promotion, public relations, and market research, society is suspicious of those who value silence.

~John Lahr

From the Office of Career Services

We can help with all phases of your academic experience and employment search! Need help? Walk-in counseling is available M-F, 10 a.m. – 4 p.m. in Room 230 Nebraska Union. These are 20-minute sessions, with the final session beginning at 3:40 p.m. Sign up sheets are available beginning at 8 a.m. each day. Assistance is also available by appointment.

Lark Bear, Career Specialist

COET

114 OTHM

472.7073

lbear1@unl.edu

CASNR Career Specialist

301 ECU

472.8273

Chris Timm, Associate Dir

Career Services

ENGR Liaison

472.8049

ctimm1@unl.edu

Information on Career Services and Husker Hire Link can be found on-line at www.unl.edu/careers/!

Upcoming Career Events

WEEKLY

Walk-In Counseling, Monday through Friday, 10:00 AM to 4:00 PM. (Last appointment begins at 3:40 pm), 230 Nebraska Union

Choosing Majors/Matching Careers, Wednesdays, 3:00 pm, 225 Nebraska Union

Internship Orientation Sessions, Thursdays, 3:30 pm, 225 Nebraska Union

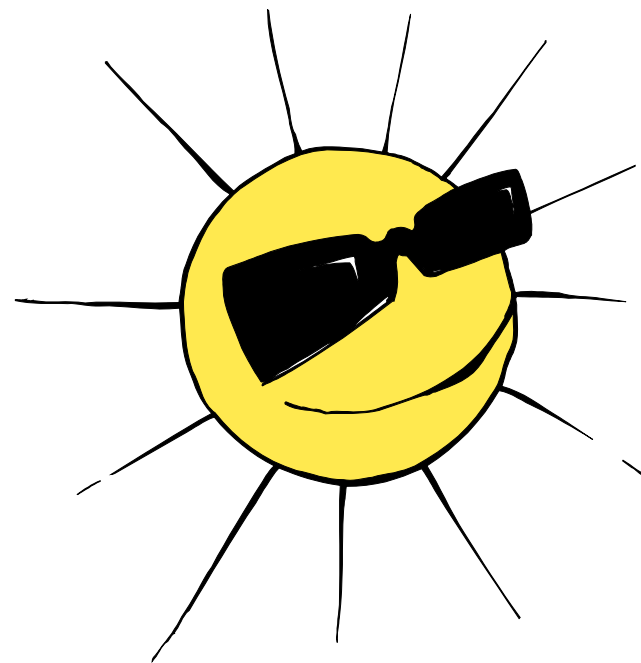
Coming in April

Student Job & Internship Fair: Wed., April 6, 10 a.m.- 3 p.m., City Campus Union

Local and national employers will be on hand to recruit student staff for part-time, seasonal, and internship positions. Students at any level in any major are encouraged to attend this great event. More details can be found at <http://www.unl.edu/careers/stufair/index.htm>.

Nebraska Engineering Scholarship Opportunities

Applications for the **James S. Blackman Scholarship for Excellence in Engineering** are now available in the Dean's Office, 114 Othmer Hall or on the college Web site (<http://www.nuengr.unl.edu>). A recipient must be enrolled as a full-time student for both fall and spring semesters during 2005–06, shall have senior class standing and graduate no sooner than May 2006. A GPA of 3.200 or greater, preference given to those who demonstrate need and evidence of proven leadership. Deadline is March 30. The stipend is \$2,500 per semester.



Applications for the **Mort and Barb Nicholson Scholarship** are also available. A recipient must be enrolled as a full-time undergraduate student for both fall and spring semesters during the 2005-06 academic year. Must have a 3.0 or higher GPA. Preference given to those who demonstrate financial need. The stipend is \$2,500 per semester. Deadline is March 30.

Summer Undergraduate Engineering Research Experience (SUERE) agreement forms are now available in the Dean's Office, 114 Othmer Hall or on the college Web site. SUERE offers opportunities for undergraduates to work alongside faculty members and directly participate in research activities.

Graduate Fellowship Offers

Graduate Assistantship/Fellowship applications are now available in 114 Othmer Hall, 100 PKI or on the college Web site. Any May 2005 graduate of the College of Engineering & Technology with a cumulative GPA of 3.50 or above is eligible to apply. Preference will be given to those who obtained cost sharing from a faculty sponsor. No more than one active award per faculty sponsor. Further information can be found on either the

web or application. Deadline date is March 30, 2005.

Applications forms for the **Milton E. Mohr Scholarship and Fellowship Program** are available in your department office or the Dean's Office, 114 Othmer Hall. You must currently be a UNL student and a full time junior, senior or graduate student by the fall of 2005 -06 with an over all G.P.A.. of 3.5 or greater and not plan to graduate mid-term. See form for qualifying majors. Applications are due to the department chair by March 31, 2005.

Invitation to Join the Order of the Engineer

You are invited to attend a public ceremony where you will be inducted into the Order of the Engineer. At the ceremony, you will sign an obligation and accept a stainless steel ring to be worn on the small finger of the working hand. Seniors desiring to join must be graduating from an Engineering program (does not include Engineering Technology Programs or Construction Management) in May, August or December 2005. Graduate students admitted to an engineering program are welcome.

The Order of the Engineer is an association of engineers dedicated to the teaching, administration, or practice of their profession. You will be given a stainless steel ring to be worn on the working hand as a constant reminder of the wearer's calling. There are no further meetings to attend, dues, or subscriptions to pay. The Initiation Fee is \$20.00. Some of the proceeds will go to support the Mathcounts program which encourages 6th, 7th and 8th grade students to continue their math studies and perhaps select a career in Engineering.

An informational and invitational meeting will be held Mon., April 25, 2005 at 4 to 5:15 p.m. in the M.E. Conference Room, N105 WSEC (enter through N104 WSEC). Please attend the meeting so that we can size rings and get the correct names for your certificates. The Initiation will be at 5 p.m. on Wed., May 4, 2005 in N129 WSEC, you must attend. If you can't attend this meeting call Dr. Ehlers at 489-6773 or ljehlers@alltel.net. Watch for announcements. Order of the Engineer web site at: <http://www.order-of-the-engineer.org>.

For more information, contact Dr. Lawrence Ehlers at 489-6773 or e-mail ljehlers@alltel.net, Dr. John Rohde W335 NH (472-8807), Dr. Suzanne Rohde N120 WSEC (472-7680), Associate Dean Ballard 114 OTHM (472-3181), or Dr. Ray Moore PKI 102C-UNO (554-2462). The following students are members of the Order of the Engineer and will be happy to discuss the organization with you. They are Pat McAtee- prmcaatee@hotmail.com; Elaine Kub-elaine@kub.nu; Carrie Olson-colson9@bigred.unl.edu.

Hyland Software Open House

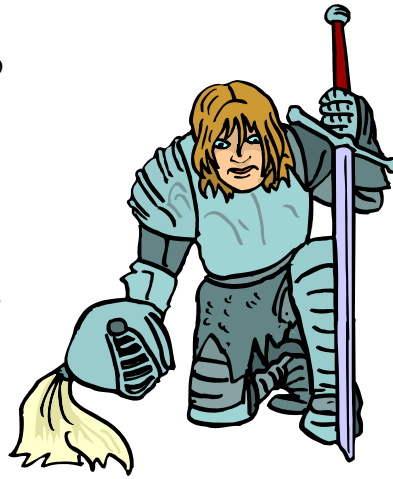
Hyland Software is a software developer dedicated to enabling a broad spectrum of organizations to become operationally more efficient and effective. For more than a decade, we have

accomplished this by developing and marketing OnBase, our award-winning enterprise content management software.

As a result, nearly 5,000 organizations throughout the world utilize OnBase to streamline operations, reduce costs and share information with employees, partners and customers. We will be

having an open house on Thurs., March 31 from 5-9p.m. at 1633 Normandy Court, Suite A (16th and Old Cheney behind Heidelberg's South).

We are looking to fill technical support positions. Visit <http://jobs.onbase.com> or e-mail us at jobs@onbasenebraska.com for more information.



Do the Locomotion (or learn how to walk)

Robots can be used to test theories of how humans control efficient and stable locomotion. To rigorously test such theories, engineers must replicate the human body's morphology, gait appearance, energy consumption and organization of the nervous. Interestingly, some of the



most elaborate bipedal walking robots produce joint actuations that are more precise than humans, but have gait mechanics that are extremely less efficient. To overcome this problem, engineers have recently starting utilizing a passive dynamic framework to model the lower extremity. In contrast to robots such as Honda's ASIMO, a passive dynamic walking robot has no active control algorithm overseeing the locomotor dynamics. Rather these robots rely on the natural dynamics present in the mechanics of the locomotive system. Passive dynamic walking robots have gait patterns that are remarkably similar to humans in form and efficiency. These walking robots were recently featured in Science Magazine as an innovative robotic platform of the future upon which engineers will build tomorrow's robots.

On April 1, UNO's HPER Biomechanics Laboratory will feature a presentation by Dr. Art Kuo from the University of Michigan on how passive dynamic walking robots are being used to address scientific questions about human locomotion. Dr. Kuo is an internationally recognized bioengineer who specializes in passive dynamic locomotion.

He has been awarded several research grants from the Whitaker Foundation, the National Science Foundation, and the National Institute of Health. He uses the passive dynamic framework to explore how humans control locomotion and produce remarkably efficient gait patterns.

Dr. Kuo's presentation will start at noon in Room 206 of UNO's School of HPER. Further information about Dr. Kuo's visit is available on the HPER Biomechanics Webpage (www.unocoe.unomaha.edu/hper/bio/home.htm) or by calling Lisa Holst at 402-554-2670.

Web Programmer Needed

Digital IMS is hiring a programmer to work on Web applications. Candidates should have 1-3 years of experience and a degree in computer science, engineering, or a related field or equivalent work experience. We are looking for skills heavy in Java, PHP, or C/C++. They should also have working knowledge of HTML, SQL, and common Web technologies. Any experience with distributed systems (RMI, CORBA, DCOM, SOAP, Web services) would be extremely beneficial. Of course good communication and team skills are a must.

This individual will join a small team of developers to produce our Web application framework.

Additional details of the job and the application mechanisms are located at <http://www.digitalims.com/careers>. Ideally, this position would be available immediately. If the right person comes along, we may be able to wait until graduation (e.g. a Master's student with relevant experience). Call Rob Nickolaus, 437-0130 with questions.



Take a Road (Field) Trip

On Fri. April 8, join the Institute of Transportation Engineers, American Society of Civil Engineers and Associated General Contractors for an exciting field trip to Omaha to study the design and construction techniques of the West Dodge Project currently being constructed. The West Dodge Road project begins just east of 108th St. and extends west to approximately 131st St. This project is

necessary to improve traffic operations, capacity, and safety on West Dodge Road from I-680 to 132nd St.

The day will begin with a presentation at a local restaurant near HDR, the main design firm for the project. After the presentation, students will travel to the site with the leadership of the Nebraska

Department of Roads.

The field trip is open to construction management and civil engineering students. Register in the civil engineering office, Nebraska Hall, W348. Contact Matt Beran at MBeran@dor.state.ne.us for more information.

The trip is free.

Student Work Study – Bridge Division- Lincoln NE – Salary \$10.796/hourly

This position is being posted internally and externally and is open till filled.

Position #23211
Temporary employment up to four years.
Position available May 2005.

The person in this position works under general

supervision of a hydrologic engineer.

Essential Duties: They will input hydraulic data from inactive files into the computerized Hydraulic Data Management database and assist Hydraulic Engineers with routine project research, hydrologic analysis, hydrologic calculations and folder preparation.

Requirements: Must be at least a three fourths time student majoring in civil engineering and be able to work at least 12 hours a week when classes are in session, 16 hours a week preferred. Temporary full time employment may be available during breaks.

Prefer: A second semester sophomore with experience in the use of Computer Aided Drafting and Design (CADD). Working knowledge of Microsoft Word, Excel, Access, and Microsoft NT 4.0.

State application required. To apply access www.wrk4neb.org or contact: NEBRASKA DEPARTMENT OF ROADS, Human Resources Department, (402) 479-4581.

OPPD Coops Available

Omaha Public Power District has several coops available, starting in may. Please visit the OPPD Web site at <http://www.oppd.com>, for more information and to apply.

Consider Antarctica

Event: Raytheon Polar Services 6th Annual Job Fair

Dates/Times: Fri., April 8, 9 a.m. - 4p.m and Sat., April 9, 10 a.m. - 2p.m.

Location: Raytheon Polar Services

7400 S. Tucson Way

Centennial, CO 80112

or more information about the Antarctic program please visit: <http://www.polar.org>, To apply: www.rayjobs.com

RPSC is the primary support contractor for the National Science Foundation's U.S. Antarctic Program. We provide Station Operations, Logistics, IT, Construction, Maintenance and more—all in support of the scientific research performed in the Antarctic region.

Across

- 1 Greek mount
 6 Thomas __ Edison
 10 Little innocent
 14 Hit hard
 15 Look-see
 16 Sikorsky or Stravinsky
 17 Southpaw
 18 Rind
 19 Type of skirt
 20 Seaport near Lisbon
 22 Cornmeal concoction
 24 Practiced, as a trade
 26 Scant
 27 "The Osterman Weekend" author
 30 Waned
 32 Satisfactory
 34 Lots and lots
 38 __ de France
 39 Attempts
 41 "The Pit and the Pendulum" author
 42 Moribund
 45 Permeable
 48 Picture
 50 Trunks
 51 Pick-me-up
 54 Start fighting
 56 Takes offense at
 58 Wandering
 62 Lhasa __
 63 Hawaiian dance
 65 Shin bone
 66 Side in 1980s war
 67 Israeli guns
 68 Undemocratic law
 69 Hemispherical roof
 70 Harry
 71 Schoolroom furniture

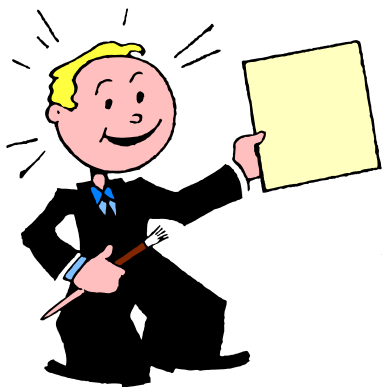
1	2	3	4	5		6	7	8	9		10	11	12	13
14						15					16			
17						18					19			
20					21			22		23				
			24				25		26					
27	28	29					30	31						
32						33				34		35	36	37
38					39				40		41			
42			43	44		45				46	47			
			48		49				50					
51	52	53					54	55						
56						57		58				59	60	61
62						63		64			65			
66						67				68				
69						70				71				

Down

- 1 Cobbler's tools
 2 "Of __ I Sing"
 3 Knife handle
 4 Eightfold
 5 Azure
 6 Eve's undoing
 7 Confederate C-in-C
 8 Vice-president
 9 Poise
 10 Citrus drink
 11 The way of all flesh?
 12 __ Carlo
 13 Pipe type
 21 Draw a bead on
 23 Lecherous look
 25 French composer
 27 Deposited
 28 Far from fair
 29 Three in Berlin
 31 Apiary residents
 33 Boast
 35 Big brutes
 36 Like old recordings
 37 Groups
 40 __ voce
 43 "Great shot!"
 44 Federal agents
 46 Turned
 47 Platitude
 49 Camelot's king
 51 Plait
 52 Copy
 53 Tea-growing state
 55 Delete
 57 Vocalist Quatro
 59 Long-billed wading bird
 60 Shaver's woe
 61 Hoods' rods
 64 Jar top

The first three students to return the puzzle to 114 J Othmer Hall, correctly solved, will win a prize!!

P.S. Omaha students, this includes you. Take your completed puzzles to Alma Ramirez Rodgers in PKI 105 E!



PROVERBS For The Millennium

1. Home is where you hang your @.
2. The e-mail of the species is more deadly than the mail.
3. A journey of a thousand sites begins with a single click.
4. You can't teach a new mouse old clicks.
5. Great groups from little icons grow.
6. Speak softly and carry a cellular phone.
7. In some places, C: is the root of all directories.
8. Oh, what a tangled website we weave when first we practice.
9. Pentium wise, pen and paper foolish.
10. The modem is the message.
11. Too many clicks spoil the browse.
12. The geek shall inherit the earth.
13. Don't byte off more than you can view.
14. Fax is stranger than fiction.
15. What boots up must come down.
16. Windows will never cease.
17. Virtual reality is its own reward.
18. Modulation in all things.
19. Give a man a fish and you feed him for a day; teach him to use the Net and he won't bother you for weeks
20. There's no place like your home page



Calendar

Lincoln

March 28	Priority Registration for Fall 2005 begins.
April 6	Student Job & Internship Fair
April 8	Last day to withdraw from one or more classes.
April 8	ITE/ASCE/AGC Fieldtrip to Omaha
April 7-9	ECMA Conference (nuengr.unl.edu/cet/ecma2005)
April 18-23	E-Week
April 22	E-Week Open House
April 28	Lincoln Student Recognition Reception
April 30	Last Day of Classes
May 7	Commencement

Omaha

April 28	Omaha Student Recognition Reception
April 29	Last Day of Classes
May 6	Commencement

About the Blueprint Weekly
Editor: Roxane Gay

If you have news and information you would like to share with the faculty, staff and students of the College of Engineering & Technology, please e-mail the information to us at blueprintweekly2@unl.edu or drop it in our mailbox at 114 Othmer Hall on the Lincoln Campus and in PKI 107A (next to the Dean's office) on the Omaha Campus. Note that the deadlines for information submission are Wednesdays at 5 p.m.

Letters to the Editor

It is the policy of the Blueprint Weekly to print letters that are signed and can be verified. Names may be withheld by request, but must be included for verification. Please include with each letter a name and phone number or e-mail address. All letters should be sent to blueprintweekly2@unl.edu or dropped in the Blueprint Weekly mailbox in 114 Othmer Hall in Lincoln or PKI 107A in Omaha.

The University of Nebraska is an affirmative action/equal opportunity institution.

UNIVERSITY OF
Nebraska
Lincoln

Trivia Corner:

1. Why is an antibiotic inappropriate for a cold?
2. What Notre Dame football star had a Studebaker car named for him?
3. How many islands are the Phillippines comprised of?

Random link:

Warner Brothers Cartoon Filmography
<http://www.davemackey.com/animation/wb/>

Knute Rockne ; 3. 7-7,500
1. Colds are caused by a virus; 2.

Answers: