



17 Oct 1990

The Missouri Miner, October 17, 1990

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Missouri Miner



A publication of the students of the University of Missouri-Rolla

October 17, 1990

Volume 79, Number 9

Twenty pages

International News Headlines

Gary Meyer
Staff Writer

PERSIAN GULF--According to Pentagon officials, the U.S. military buildup in Saudi Arabia and the Persian Gulf is nearly complete with the addition of two cavalry units bringing the total U.S. manpower to more than 200,000.

Approximately 600 more Americans have left Iraq and occupied Kuwait on chartered flights out of Baghdad. It is believed that nearly 100 Americans remain in Iraq at strategic installations as human shields to deter an American preemptive strike.

The German and Belgian embassies in Kuwait have closed, leaving only the American, British, Canadian, and French embassies. Saddam Hussein ordered embassies in Kuwait closed in mid-August after he declared Kuwait to be a province of Iraq. The remaining embassies are battling deteriorating conditions as most have had water, electricity, and food supply lines cut.

The death toll of Operation Desert Shield, the American stance in the Middle East to deter further aggression by Iraq, has risen to 24. The first deaths occurred last month with the crash of a C5 military transport. Recently, American military personnel have died in crashes of a F-111 fighter/

bomber, a F-4 Phantom, and two Marine Huey helicopters. American training maneuvers have been down-scaled while this latest rash of unexplained crashes is being investigated. Operation Desert Shield began on August 3, the day after Saddam Hussein invaded Kuwait.

A French news magazine reported that it had obtained an outline of an American military plan of a four day offensive that would destroy the armed forces of Iraq and liberate Kuwait. It said U.S. planners had estimated that the offensive might cost 20,000 American lives. The so-called Operation Night Camel would involve four phases: can air assault destroying Iraq's air power, radar systems and missile bases; annihilation of Iraq's military-industrial complex including nuclear and chemical weapon facilities; neutralization of tanks on the Saudi border and the cutting of links between Kuwait and Iraq, and finally, a large offensive to reconquer Kuwait.

ISRAEL--Israeli police unleashed fire on Palestinians at Temple Mount in Jerusalem, killing 19. The police said they opened fire after thousands of Palestinians threw a barrage of stones and bottles from the mount onto thousands of Jews observing the festival of Sukkot at the Western Wall, Judaism's holiest site. The Palestinians said they had been angered by rumors

that Jewish extremists planned to march onto the Temple Mount, which is under Moslem control. After day long negotiations, President George Bush's administration announced that it would be in favor of a resolution condemning Israel and developed a draft resolution of this nature. However, some Arab nations are suggesting that the resolution contain harsher words proposed by the Palestine Liberation Organization. The United States usually uses its veto power to shield Israel against what it judges to be unfair criticism and would probably invoke this power if the harsher language were employed. President Bush admitted in a conversation with French president Francois Mitterand that a veto in favor of Israel would greatly jeopardize the western-Arab alliance against Iraq that he has worked so carefully to develop.

SOUTH AFRICA--The South African government under president F.W. DeKlerk has extended an invitation to return home to 20,000 South

See World, page 3

UMR assists in Fort Wood management program

News & Publications
SOURCE

The University of Missouri-Rolla currently is assisting Fort Leonard Wood with the implementation of a new management philosophy on "Total Quality Management" (TQM).

"UM-Rolla is pleased to assist Fort Leonard Wood with this excellent program," says UMR Chancellor Martin C. Jischke. "It represents another step in the interaction and cooperation of UMR and Fort Wood."

According to Dr. Peter Schmidt, UMR assistant professor of engineering management and principle investigator for the program, TQM is an approach for constantly improving quality and productivity through the participation of all levels of an organization.

"It stresses the systematic examination of processes to identify and correct sources of error and waste," Schmidt says. "The goal is to provide high quality goods and services in the most efficient manner possible."

Maj. General Daniel R. Schroeder,

Commanding General and Commandant, United States Army Engineer School at Ft. Leonard Wood, says, TQM is being adopted throughout the Department of Defense, but Ft. Wood is one of the first installations of its kind to do so.

"This program demonstrates our continued commitment to quality and excellence," he adds.

Schroeder explains that Ft. Wood received the Army's prestigious Community of Excellence Award in 1985 and 1987. "We believe TQM will help us continue to improve the standards represented by those awards."

According to Schmidt, TQM will be implemented in three directorates including logistics, resource management, and contracting.

"Eventually, the program will be introduced in other functional areas," Schmidt says.

Schmidt indicates that he, along with James Highfill, lecturer in engineering management at UMR, are

See Wood, page 3

Asbestos removed from residence hall basement

News & Publications
SOURCE

Precautionary measures have been taken in the University of Missouri-Rolla's Thomas Jefferson Residence Hall due to a spillage of material containing asbestos, according to David N. Clifton, UMR's Safety and Risk Management Representative.

According to Clifton, an asbestos abatement contractor, hired by the university, was removing several pieces of material containing asbestos from piping in a mechanical room on the ground floor of T.J. Hall at about noon Thursday, Oct. 4.

"The contractor was using the 'glove bag type' method of removing the asbestos from the piping, which requires wetting of the material so dust

particles cannot escape into the air," Clifton says. "When the bag was being removed from the piping, the bag split.

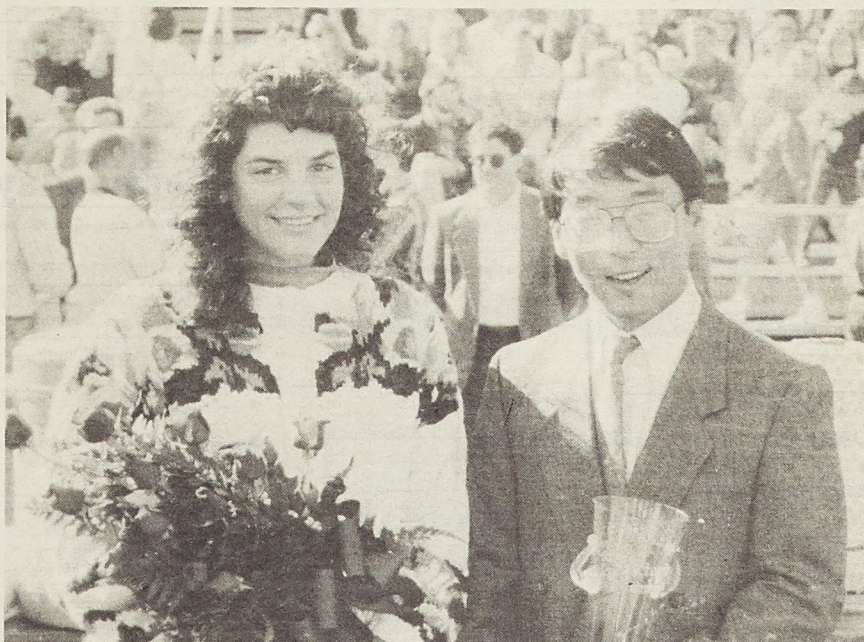
"Because the material was wet, no asbestos escaped into the air," Clifton explains.

"Every precaution has been taken," Clifton says. "Students residing in the residence hall are in no danger," he adds.

"Air monitors were installed in the area to determine whether asbestos particles escaped into the air," Clifton says. "Test results from the monitors indicated that no asbestos had been released."

In addition to the air monitoring, other precautionary measures that were taken included sealing off the area and cleaning the floor in the area where the material was spilled.

Scammacca named Homecoming Queen



Dave Libiez

Vicki Scammacca, representing Chi Omega, (left) was announced as this year's Homecoming Queen. Her escort was Eugene Bae.

Calendar of Events

Wednesday

The University of Missouri-Rolla will host a reading by poet and fiction writer Heather Ross Miller, 3:30 p.m., Room G-5, H-SS. Free.

Lecture, "The Future of Engineering and UMR," UMR Chancellor Martin C. Jischke, 7:30 p.m., Rayl Cafeteria. Free.

UMR Men's Soccer Southwest Missouri State University, 7:30 p.m., UMR Soccer Complex. Free.

Juggling Club, 6-9 p.m., Miner Rec., beginners welcome.

Bible Study Club, Maramec, 12:30 p.m.

Wesley Mtg., 6 p.m.

Spelunkers Mtg., 206 McNutt, 6 p.m.

HKN EE Help Session, 102 EE, 6:30 p.m.

Alpha Chi Sigma, G-3 Schrenk, 7 p.m.

ASCE, 114 CE, 7 p.m.

Sport Parachute/Hand Gliding, 206 McNutt, 7 p.m.

SME, McNutt, 7:30 p.m.

Amer. Found. Soc., 211 McNutt, 7:30 p.m.

Newman Mass, 9 p.m.

Thursday

Rolla Blood Drive, 9 a.m. - 3 p.m., at Metro Business College, for more information call 364-3947 or 866-7300

Board of Curators meet in Columbia.

Physics Colloquium, "Some Physics of the Metal Cluster Compound Au₅₅(PPh₃)₁₂Cl₆," Dr. Roger Thiel, Ottawa University, 4 p.m., Physics 104. Free.

UMR Film Series, "Henry V," 7 p.m., Miles Auditorium, Mechanical Engineering Building. Admission by season ticket or \$3 at the door.

American Nuclear Society Mtg., Fulton Hall, Room 227

Massage- A Stress Reliever, 6 p.m., Maramec Room, UCE, sponsored by the Wellness Program

Toastmasters Mtg., 220 Fulton, 4:30 p.m.

Chi Epsilon, 117 CE, 4:30 p.m.

Pi Tau Sigma, 216 ME, 6 p.m.

Climbing Club, 206 McNutt, 6:30 p.m.

IK Mtg., 204 McNutt, 6:30 p.m.

IVCF Bible Study, 101 EE, 7 p.m.

APO, 7 p.m.

Chinese Student Assoc., Missouri Room, 7 p.m.

KME Math Help Session, 203 M-CS, 7 p.m.

EIT Review Session, 114 CE, 7 p.m.

Alpha Chi Sigma, Tutoring Service, 126 Schrenk, 7 p.m.

Chess Club, UCE, 7:30 p.m.

Gaming Mtg., 208 ME, 8 p.m.

Friday

Board of Curators meet in Columbia.

SUB Movies: Indiana Jones & the Last Crusade, 7 & 9 p.m.

IVCF Mtg., 139 Schrenk, 7 p.m.

Saturday

UM-Rolla Day. Registration 8:30 a.m. - 11:30 a.m.; refreshments in Miner Lounge 8:30 a.m. - 9:30 a.m., advisement 8:30 a.m. - 1 p.m.; guided campus tours 9:30 a.m. - 2 p.m.; living unit tours 11 a.m. - 1 p.m.; department open house 12:30 p.m. - 3 p.m.

UMR Collegium Musicul Madrigal Singers Court Minstrels and Chapel, 10 a.m. - 11 a.m.; UMR Pipe Band and Jazz Ensemble, outdoor performances, maal mort of University CEnter. West. Free.

UMR Men's Soccer Oral Roberts University, 3p.m., UMR Soccer Complex. Free.

Tau Beta Pi, Alternate Workday, 7:30 a.m., EE Lobby.

SUB Movies: Indian Jones and the Last Crusade, 7 and 9 p.m.

HKN Work Day, EE Lobby, 8 a.m.

Open Gaming, 317 CE, 9 a.m.

Chinese Students Assoc. Movies Series, G-3 Schrenk, 7 p.m.

Sunday

Open Gaming, Sunrise, 12 p.m.

Wesley Chapel, 7 p.m.

Monday

PREREGISTRATION

Chemistry Department Seminar, "Protein Structure Spectroscopic Measurements," Dr. Todd Przybycien, Monsanto, St. Louis, 4:30 p.m., Room G-3, Schrenk Hall. Free.

Movie Night at the Brechmacher House, 609 W. 9th St., 8 p.m., featuring "Stella" and "Pretty Woman"

Life Talks, 7:45 p.m., 414 Holtman Hall at the Quad., study of Mark, sponsored by Koinonia

Christian Campus Fellowship (CCF), meeting in the Missouri Room at UCE at 6 p.m. A time of Prayer and Praise! Everyone is welcome.

Women's Life Talks 2:30 p.m., Maramec Room, sponsored by Koinonia

Study Skills, 201 Norwood, 3:30 p.m.

Independents BOG, Maramec, 7 p.m.

Tuesday

PREREGISTRATION

"Sex in the 90's" sponsored by UMR Panhellenic, 4-5p.m., ME 104

Graduate Students' Seminar, "Applications o Grid Generation in Computational Fluid Dynamics," Chang-Ren Chen, UMR 4:30 p.m., Room 107C, ME Annex. Free.

Tau Beta Pi, General Meeting and Officer Nominations, Schrenk, G-3, 7 p.m.

StuCo Layer, Walnut, 2:30 p.m.

Career Planning Part II, 201 Norwood, 3 p.m.

SWE Mtg., Maramec, 5:30 p.m.

AEG Mtg., 204 McNutt, 6:30 p.m.

KME Math Help Session, 203 M-CS, 7 p.m.

ASME Mtg., 104 ME, 7 p.m.

Tau Beta Pi, G-3 Schrenk, 7 p.m.

Chi Alpha, 210 McNutt, 7:30 p.m.

Next Wednesday

Juggling Club, 6-9 p.m., Miner Rec., beginners welcome.

PREREGISTRATION

Bible Study Club, Maramec, 12:30 p.m.

Wesley Mtg., 6 p.m.

Spelunkers Mtg., 206 McNutt, 6 p.m.

Blue Key Mtg., 206 McNutt, 6 p.m.

HKN EE Help Session, 102 EE, 6:30 p.m.

AGC Mtg., 114 CE, 7 p.m.

Sport Parachute/Hand Gliding Mtg., 206 McNutt, 7 p.m.

SAE Presentation, 104 ME, 7 p.m.

Newman Mass, 9 p.m.

Financial Aid

THE FOUNDATION OF THE WALL AND CEILING INDUSTRY The Foundation of the Wall and Ceiling Industry is offering 15 \$500 scholarships to students pursuing construction-related careers in fields such as construction supervision, architecture and industrial technology. Eligibility requirements are:

Pursuing a degree in a construction-related field. A full-time student at the college sophomore or junior levels. Junior level candidates must have one full academic year of coursework remaining at the beginning of the 1990 fall term.

OR

A first or second year student attending a two-year school.

Application Deadline: December 3, 1990.

Additional information and applications can be obtained in the Student Financial Aid office, G-1 Parker Hall

THE DR. ROBERT H. GODDARD

SCHOLARSHIP The National Space Club will award a \$7,500 scholarship for the academic year 1991-92. The scholarship is in memory of

Dr. Robert H. Goddard, America's rocket pioneer. The award is given to stimulate the interest of talented students in the opportunity to advance scientific knowledge through space research and exploration. The terms of the scholarship are as follows:

The applicant must be a U.S. citizen, in at least the junior year of an accredited university and have the intention of pursuing undergraduate or graduate studies in science or engineering during the interval scholarship.

Application Deadline: January 4, 1991

Additional information can be picked up at the Student Financial Aid office in G-1 Parker Hall.

THE HEAVY CONSTRUCTORS ASSOCIATION OF THE GREATER KANSAS CITY AREA

The Heavy Constructors Association of Greater Kansas City is making two scholarships available, each in the amount of \$2,500 for students pursuing careers in construction sciences. Requirements are:

- Shall be full-time students who demonstrate financial aid.

- Preference given to well rounded persons who are upper classmen, to Kansas City area resi-

See Financial Aid, page 3

Missouri Miner

The **Missouri Miner** is the official publication of the students of the University of Missouri-Rolla. It is distributed each Wednesday afternoon at Rolla, Missouri and features activities of the students of UMR.

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The **Missouri Miner** encourages comments from its readers, and will attempt to print all responsible letters and editorial material received. All submissions must have a name, student ID number, and phone number for verification. Names will be withheld upon request.

Submissions for publication must be in our drop box (first floor of the Norwood Hall, Room 103) by 3:30 p.m. on the Thursday before publication. The **Missouri Miner** reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

The **Missouri Miner** is operated by the students of UMR and the opinions expressed in it do not necessarily reflect those of the university, faculty, or student body.

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Financial Aid

dents, and to sons or daughters of construction employees.

Applicants will be required to demonstrate their commitment to obtaining careers in construction.

Recipients will be required to seek summer employment in construction.

Deadline: April 15, 1990

Applications may be obtained in the Student Financial Aid office, G-1 Parker Hall. The application is to be turned in to the SFA office by April 15, 1990.

CONSULTING ENGINEERS COUNCIL OF MISSOURI

CECMo is currently accepting applications for its annual scholarship awards program. CECMo will be offering three \$1,000 cash scholarships. Eligibility requirements are:

- Candidates must be U.S. citizens
- Pursuing a Bachelors Degree at an accredited college of engineering and entering their junior, senior or fifth year in the fall of 1991.
- Winners will be selected based on superior scholastic efforts, civil responsibility, community and college-level ability.

For more information and where to contact to obtain the application, contact the Student Financial Aid office, G-1 Parker Hall.

SOCIETY FOR THE ADVANCEMENT OF MATERIAL AND PROCESS ENGINEERING

SAMPE is officially kicking off their 1991 Undergraduate Awards Program for Engineering Students. Consideration is given to scholastic average, specific courses of study, academic awards and honors received, work experience, campus and community activities, and written dissertation demonstrating the student's objectives in processing and materials technologies. The requirements are:

- Pursuing a B. S. in engineering
- Applicants must be a full-time students in one of the accredited programs.
- Applicants must be recommended by his or her department head.
- Applicants must have a 3.3 minimum cumulative gpa based on 4.0.
- High school and college seniors are not eligible.

1991 Awards: 1st Place- \$3000, 2nd Place- \$1500, 25-\$1000

Deadline: February 1, 1991

Applications may be picked up in the Student Financial Aid office, G-1 Parker Hall.

ST. LOUIS CHAPTER OF MSPE AUXILIARY

The St. Louis Chapter of the Missouri Society of Professional Engineers is once again awarding \$1500 scholarships to engineering students for the 1991-92 academic year. At least one scholarship will be awarded to a UMR student. The requirements are:

- The student be a junior or senior engineering student in the 1991 fall semester
- Good scholastic achievements
- And financial need.

Former recipients are eligible to apply for a renewal and special consideration will be given to students from the St. Louis metropolitan area.

Deadline: Applications are to be completed and submitted to the Student Financial Aid office by November 30, 1990, along with transcripts.

Applications may be picked up in the Student Financial Aid office, G-1 Parker Hall.

World from page 1

Africans who sought exile in other countries. In addition, 12 political prisoners were released from prison. The exiles and prisoners are members of the formerly banned African National Congress led by Nelson Mandela. Approximately 3000 remain in prison.

Mangosuthu Buthelezi, the leader of the Inkatha political movement, decided not to meet with Nelson Mandela to discuss possible solutions to the tribal violence that has plagued the townships around Johannesburg for two months. Buthelezi originally expressed interest in such a meeting, but has rejected the invitation by Mandela on grounds that it invited him as the Zulu tribe chief, not as president of the Inkatha political movement. Both men head groups that are opposed to Apartheid, the policy of white minority rule, but disagree about how its overthrow should proceed. The government is hesitant in implementing further change until the two groups can co-exist without violence.

(Compiled from the St. Louis Post-Dispatch and the New York Times)

Wood from page 1

providing advice regarding the best approach for implementing TOM, and are conducting training in the various skills and techniques used in the program.

"Managers, employees and facilitators in the three directorates will complete this training by the end of the year and will begin addressing issues in their organizations soon after that," Schmidt says.

Gutierrez named Director of Publications

News & Publications SOURCE

Ernie Gutierrez of Rolla recently was appointed Director of Publications at the University of Missouri-Rolla. He will supervise production of all external UMR publications including undergraduate and graduate catalogs, application booklets and student recruitment brochures.

Gutierrez joined the UMR staff in 1970 as a senior photographer. In 1987 he became a senior information specialist writing news and feature releases for the Office of News and Publications. He served as interim director of UMR News Services from February 1990 to August 1990.

In addition, he has taught photography courses at UMR on a part-time basis since 1979 and was a lecturer in Spanish for one year.

Prior to joining the UMR staff, Gutierrez was employed at McDonnell Douglas in St. Louis as a public relations photographer.

Saxophone Quartet to perform at UMR

News & Publications SOURCE

The Harvey Pittel Saxophone Quartet will perform at 8 p.m. Saturday, Oct. 27, in Centennial Hall, University Center-East, at the University of Missouri-Rolla. The performance is part of UMR's Campus Performing Arts Series and is made possible in part through support from the Mid-American Arts Alliance Program.

Admission to series events is by season ticket or individual performance ticket (UMR students with a valid ID are admitted free to the event through support from UMR's Student Union Board). All other students, retired UMR faculty and staff, and senior citizens, are charged \$5 per series event. The general public and current UMR faculty and staff are charged \$7.50 per series event. Season tickets for non-UMR students, current or retired UMR faculty and staff, and senior citizens, are \$20. Season tickets for the general public are \$30.

Advance tickets may be purchased from the reservationist's window, University Center-West, from 8 a.m. - noon and 12:30 - 4:30 p.m. weekdays. Tickets also may be purchased at the

door beginning one hour before curtain time.

The Harvey Pittel Saxophone Quartet will perform using 12 different saxophones, from the piccolo-like soprano to the rich baritone, in a varied program which may include Bach, Mozart, Glazunov and Debussy, as well as Joplin, Vaudeville, Swing and jazz favorites.

The group has performed in such cities as Boston, New York, Kansas City, El Paso, Los Angeles and San Francisco.

Members of the group include Harvey Pittel, Vincent Gnojek, Roger Greenberg and Todd Oxford.

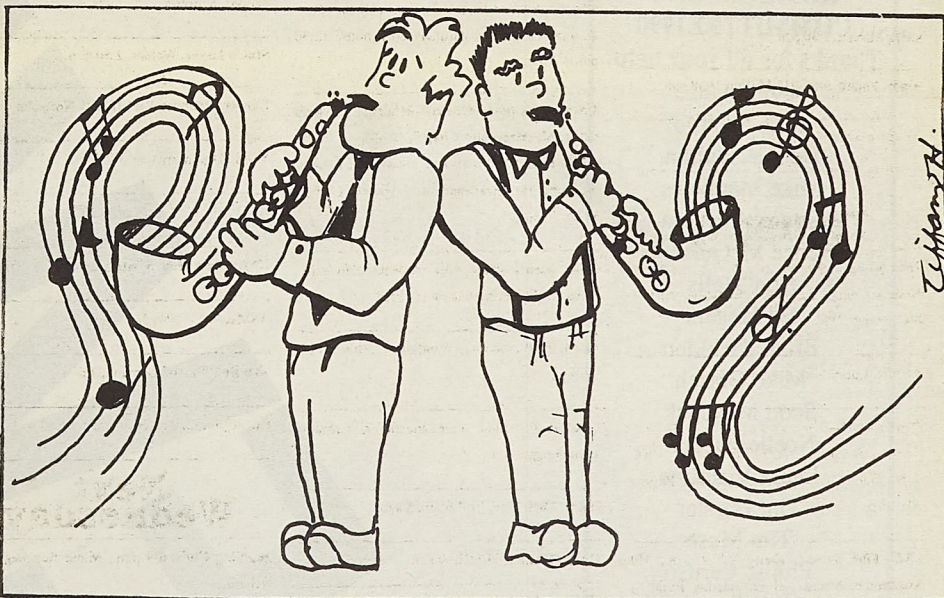
Pittel, who currently is a faculty member at the University of Texas-Austin, also has taught at the Mannes College of Music in New York, Boston University and the University of Southern California. He has appeared as soloist with a number of symphony orchestras including the New York Philharmonic, the Boston Symphony, the Denver and Seattle Symphonies, the Los Angeles Philharmonic, the Los Angeles Chamber Orchestra and the Louisville Orchestra.

Gnojek has appeared with numerous orchestras and bands throughout

the midwest and western United States. He also has been an active solo recitalist in New York, Colorado and Kansas. Gnojek has played with the Denver Symphony Orchestra, the Colorado Music Festival Orchestra and the Denver Chamber Orchestra. He also is a regular member of the Kansas Woodwinds chamber music group and performs regularly on the Kansas Chamber Artists recital series concerts. He currently is a faculty member at the University of Kansas.

Greenberg has performed with the Los Angeles Philharmonic Orchestra and the Denver Symphony Orchestra. While serving in the military, Greenberg performed with the West Point Saxophone Quartet. He also has performed with the Tommy Dorsey Orchestra. He currently is a faculty member at the University of Northern Colorado. Greenberg also is the Southwest regional director of the North American Saxophone Alliance.

Oxford, who began his music studies at age 13, has performed with symphony orchestras, jazz ensembles, and has been featured on a PBS series from the University of Texas Department of Music. He also has received a number of musical awards from various musical competitions.



Soliman to lecture on Egypt's geology

News & Publications SOURCE

Dr. Hasan A.H. Soliman, deputy director and cultural counselor, Egyptian Cultural and Educational Bureau, Washington, D.C., will present a lecture on "Geologic Overview of Egypt" at 3:30 p.m. Tuesday, Oct. 16, in Planje Auditorium, McNutt, at the University of Missouri-Rolla.

The lecture, which is free and open to the public, is being sponsored by UMR's departments of geology and geophysics, and geological and petro-

leum engineering.

Dr. Soliman, who is on leave as professor of geology at Assiut University, Assiut, Egypt, is a specialist on the various undeveloped and underdeveloped groundwater basins of western Egypt.

Prior to his current appointment, he served as dean of Science at Assiut University.

He has been a visiting professor at Boston College and the University d'Orsay, France, and a visiting researcher at Cologne University, West Germany. Soliman currently is coun-

selor to about 2,000 Egyptian doctoral candidates in the United States.

Most recently, Soliman served as Egypt's official representative to the 1989 U.S. National Council Workshop on the Preservation of the Sphinx.

During his visit to UMR, Soliman will counsel UMR's Egyptian students and will meet with UMR faculty members.

Those interested in meeting briefly with Soliman after his lecture should contact Atef Noweir at 314-341-4616.

Student Activity Fee Referendums

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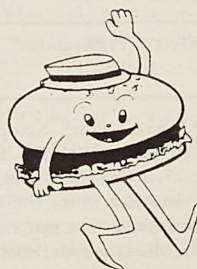
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be well prepared when
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to interview.

REWARD

Date:

October 22, 1990

Time:

6:00 P.M.

Place:

Room 204 - McNutt Hall
Casual Dress
Light refreshments will
be served.

For:

BS degrees in:
Civil Engineering
Chemical Engineering
Electrical Engineering
Geological Engineering
Mechanical Engineering
Petroleum Engineering
Computer Science

MS degree in:

Mechanical Engineering

**All those who signed up
for interviews are invited
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Features

Get ready, here comes the 1991 Green

By Matt Tobey
STAFF WRITER

The Green is coming, the Green is coming! That's right, the new 1991 St. Patrick's Day Sweatshirts are going on sale soon. Sweatshirts cost \$15 this year and all money goes to fund the biggest and best party of the year, St. Pat's 1991. The more we sell, the bigger the blast, so buy for your friends and family. St. Pat's green is wearable on any occasion. You can wear it to parties, classes, or just around the house. Green is the best cure for those upcoming days when you can't decide whether to put on a jacket or risk it with shorts. It'll keep you warm on those nippy mornings and be a fashion statement in the afternoon. So you see, there is absolutely, positively no reason NOT to buy 1991 St. Pat's Green. So watch for those guys in fluffy green jackets at the Puck and get your St. Pat's Green TODAY! Also keep an eye open for other 1991 St. Pat's items coming soon.

Help support the St. Pat's Board and wear your Green because there are only 155 Daze left until the biggest, loudest, most exciting, "BESTEVER" St. Pat's 1991.



Laura Vrabie models the new 1991 St. Pat's sweatshirt

Heather Miller to speak at UMR

News & Publications
SOURCE

The University of Missouri-Rolla will host a reading by poet and fiction writer Heather Ross Miller at 3:30 p.m. Wednesday, Oct. 17, in Room G-5 Humanities-Social Sciences Building. The event, which is free and open to the public, is being sponsored by UMR's Department of English.

According to Jack B. Bedell, UMR lecturer in English, while the reading is primarily in celebration of the University of Missouri Press' publication of Miller's most recent book of poetry, "Hard Evidence," it also may include selections of short fiction from her current work.

Heather Ross Miller is a member of the family known as the "Writing Rosses," which includes her father, Fred Ross, a novelist; her aunt, Eleanor Ross Taylor, a poet and wife of Peter Taylor, another aunt, Jean Ross Justice, a fiction writer and wife

of poet Donald Justice; and an uncle, James Ross, a writer of fiction.

Miller holds a B.A. degree in English and writing from the Women's College of the University of North Carolina, Greensboro. She also holds an MFA degree from the University of North Carolina, Greensboro.

She currently serves as a professor of English at the University of Arkansas, Fayetteville. She also has taught at Southeastern Community College, Whiteville, N.C., at Stanly Technical College, Albemarle, N.C., and Pfeiffer College, Misenheimer, N.C.

Miller is the author of 10 books of fiction and poetry.

Copies of the book "Hard Evidence" will be available for purchase

Miller will be available immediately following the reading to autograph copies and to answer questions from the audience.

at the University Bookstore prior to the reading.

For further information contact Bedell at 214-341-6811.

APO has a full schedule for October

APO
SOURCE

October is going to be a busy month for the members of Alpha Phi Omega! We have just adopted a section of highway 72 and will soon be going to Schuman Park to paint the playground for the area children. Our biggest event this semester, the Aerobathon for Special Olympics, will be held on October 27th. For more information on this call Carrie Sachs at 364-7001. Of course, we all need to have fun once in a while, and that's why we

got together with Intercollegiate Knights, Gamma Alpha Delta, and the chemical engineering honor society this past Friday. A good time was had by all. Finally the APO bookstore still has a few books and checks from the beginning of the semester. If one of them is yours, contact Julie Donovan at 341-8581.

Panhellenic to sponsor "Sex in the 90's"

Panhellenic
SOURCE

In an effort to provide informative programs to the University of Missouri-Rolla, the UMR Panhellenic Council will be sponsoring the first of two seminars this semester on October 23, 1990 from 4:00 to 5:00 p.m. in ME 104. The title of the seminar is "Sex in the 90's" and it will be moderated by Sandra Terry from the UMR Counseling Center and Mark Potrafka, the UMR Greek Adviser. The seminar will be an open discussion of the current issues facing male-female relationships in the 1990's. So come on out and express your opinions and see how your peers' views of sex in the 90's relate to you!

Watch the Miner for details on the second seminar, "Eating Disorders" on November 6, 1990.

Homecoming takes place at UMR



Dave Libiez

The UMR band performs in front of a capacity crowd at the 1991 Homecoming game.

SAFB seeks students' input

By Suzanne Metzner
SAFB

Referendums are out! Get your vote in on how your Student Activity Fees are spent. There have been articles in the Miner over the semester telling you what these organizations do with their money. Now is the time for you to have your say. Your StuCo representative has the forms and needs



to get them back to the StuCo office by October 23. Please help them out. If you don't have a rep, come to the StuCo Office and fill out a referendum. If you have a question, call the StuCo Office or talk to one of the SAFB Board members. Suzanne Metzner, John Spencer, Tom Hughes, Mike Keuss, Jennifer McGee, Kerrie Blazek, and Mark Strickland.

FACTS & FIGURES

A recent government survey discovered some interesting facts about people who use tape recorders at home. For one thing, nearly three out of four taping "occasions" involve taping things other than pre-recorded music, such as family member voices, home musical performances and answering machine messages.



For another, 77 percent were not in favor of manufacturing new audio recorders so they can't copy commercial recordings, 73 percent said they were not in favor of selling audio recordings that can't be copied, nearly eight in ten were not in favor of adding a fee on blank audiotapes to compensate copyright holders for home taping and 79 percent disapproved of charging a fee on audio recorders to pay copyright holders.

Nevertheless, that's just what some in the music industry want Congress to do. You can let your legislators know what you think by writing to the U.S. Senate, Washington, D.C. 20510 and the House of Representatives, Washington, D.C. 20515. You can also call the Home Recording Rights Coalition, at 1-800-282-8273.

This space contributed as a public service.



If what happened on your inside happened on your outside, would you still smoke?

NOV. 15. THE GREAT AMERICAN SMOKEOUT.



Hold a piece of tape up to your eyes, dim the lights and try to fill out your taxes.

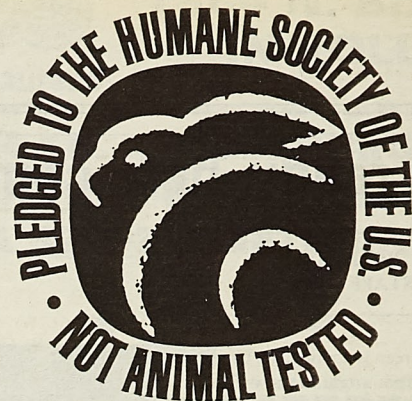
Now you're seeing things from her point of view.

Almost everybody has to file taxes, but not everyone can do it on their own. Volunteer and help make someone's taxes less taxing. Call 1800 424-1040.

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Army ROTC taught me responsibility, self-discipline and leadership. Those are things you just can't learn from a textbook.

I don't know where I'd be right now if I hadn't enrolled in Army ROTC, but I do know one thing for sure... I wouldn't be here.



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For more Information contact
Major Scott McWilliams
310 Harris Hall
Phone 341-4738

Classifieds

Miscellaneous

Student Organizations:

It is time to begin scheduling group photos for the yearbook, ROLLAMO. Please discuss a time and place, and contact Angela at 341-4279 or 364-2550 with the date, time and place you want your photograph taken.

Help Preserve Our Forests and Keep Our Environment Clean

Now, for the first time ever, recycled paper is available at Quick-Copy at NO EXTRA COST to you. This is high-quality paper that is an ideal substitution for ordinary bond (copy) paper. Simply ask for the EPA's Recycled Paper Offer at the Quick-Copy desk when placing your next order.

This offer is available to all students, faculty, staff of UMR. Additionally, ALL student groups, departments, and administrations are encouraged to participate. For more info, call Quick-Copy, or Gregg Sander (EPA Pres.) at 341-5903. Take advantage of this offer!

For Sale: J.V.C. Cassette Deck. \$190. Call Paul at 364-8123

Must sell! New, from Sears: Beautiful white sofa, loveseat, and wing recliner. Scotchguard fabric. Also, three small glass and brass tables and two brass finish lamps. Will sacrifice all for \$1000. Call (314) 341-3214 after 5:00 p.m. weekdays or anytime weekends.

ATTENTION PROFESSORS AND STUDENTS: Are you looking for an interesting program for your organization's next meeting? Want to schedule a "special event" for one of your classes this semester? The Alumni Association can help! Many alumni have volunteered to return to campus and speak on various topics. These generous men and women do not charge for their services and provide their own transportation, meals and lodging - there is NO COST to you for this service.

A list of willing alumni and their chosen topics is available by contacting Betty Volosin or Lindsay Bagnall in the Alumni Office, 101 Harris Hall, 341-4145. Let the Alumni Office help you find just the right speaker for your next meeting or class!

For Sale: HP 28S calculator with manuals, \$150.00. Call 341-8346.

HP-41Cs for sale. With manuals, case and book on programming the HP-41. \$125 negotiable. Call Mike at 364-6658.

South Winds is looking for your poetry, short stories, artwork and photographs. Please bring them to the English Department in the Humanities and Social Sciences Building. All artwork and drawings will be returned. Keep copies of your poetry and short stories.

Wanted: Good, used Commodore 64 or 128 Computer. Call 341-8956 after 7 p.m.

ATTENTION: The following student organizations HAVE NOT turned in their officer lists to Linda Martin, 218 University Center—West.

PLEASE DO SO IMMEDIATELY!!

Alpha Sigma Mu, Alpha Chi Sigma, American Academy of Mechanics, American Foundryman's Society, Association of Egyptian Students, Association of Engineering Geologists, Association of Guitar Enthusiasts, Association of United States Army, Beta Chi Sigma, C.L. Dake Society, Cheerleaders, Chess Club, Christian Science Organization, Cooperative Education Association, Cycling Club, Daughters of Lee, Daughters of Diana, Daughters of Emerald, Economics Club, Gamma Alpha Delta, Honors Association, India Association, Institute of Transportation Engineers, Interfraternity Council, Interresidence Council, Intramural Managers Association, Kappa Alpha Psi, Kappa Mu Epsilon, Koinonia, Korean Students Association, Latter-Day Saint Student Organization, Little Sigmas, Muslim Student Association, Officers Christian Fellowship, Pershing Rifles, Phi Theta Kappa, Pi Epsilon Tau, Psi Club, Railroad Club, Sigma Gamma Epsilon, Sigma Gamma Tau, Sigma Pi Sigma, Sisters of AEPI, Society of Exploration Geophysicists, Society of Physics Students, Society of Petroleum Engineers, Society of American Military Engineers, Society of Metallurgical Engineers, Society of Mining Engineers, Society of Automotive Engineers, Society of Hispanic Professional Engineers, Spelunkers Club, Sports Car Club, Table Tennis Club, Tau Kappa Epsilon, Theta Tau Omega, Upsilon Pi Epsilon, Veteran's Assistance Association, W.T. Schrenk Society, Wesley Foundation.

Apartment for Rent/Sub-lease. One block from campus; 2 bedroom, one bathroom; central air and heat; parking; pool. call 364-3935 for more info.

Campus Reps - Individuals or Student Organization - needed to promote our Spring Break Packages on campus. FREE TRIPS plus Commission. Call Campus Marketing. 1-800-423-5264.

Come see Jack Thomas from "The Funny Bone On Tour" on October 24th, Sponsored by SUB.

\$500 \$25 REWARD \$\$\$ for the return or information leading to the return of two volleyball poles that were abducted from Schuman Park two weeks ago. The poles are red and blue and are property of UMR and On The Loose. If you have any information please contact the Student Union Board (Rm. 218, UCW, 341-4220) or On The Loose (Miner Recreation Bldg., 341-6488).

"Engineering Your Future" is this year's theme for the Society of Women Engineer's High School Conference. SWE will hold its annual high school conference on Oct. 26, 1990. Approximately 150 students, parents, & counselors will come from all over Missouri & surrounding states for a day of lectures, discussions and tours. For further information about the Society of Women Engineers or about the high school conference write: SWE 113 UCW (campus mail).

Personals

Dyan R.,

The blessing in this country fruit, the hurt Which is unanswerable, fill the brow With early death. O Sion of my heart, The milk of love were charitable now. I do not come intent to be you lord, Nor to contract the empire of your flight, But as the eye holds the spinning bird Enclosed in the circumference of sight And yet the bird is infinitely free To dip its beak into the thinnest air, So do I stand. I am not destitute To color time or plot a hemisphere.

Creations that carry in their little blood Malignant influences moved to keep Delight from love, the lonely from the proud, Destroy themselves to live. In my sleep The ape, the serpent, and the fox I find Shut with my soul in fortune's writhing sack, I tame them with the sections of my mind And teach my mind to love its thoughtless crack. KK.

Clara,

Big Sister Appreciation? Oh, no! Not that! (Just kidding Goober Smooch!)

Love in AOT,
YLS

Cindy,

Welcome to the family. Let's you and me party sometime soon!

Love in KD,
Your grandma

Acacia,

We're psyched for the TGIF!
The Ladies of Kappa Delta

Mark S.,

Hey Lambda Chi dude! Tell me again how you managed to get a rug burn between your eyes!

Social

LaChelle

Hope you enjoy appreciation week.

In A.O.T.,
YLS

Campbell Soup Kid,

You'd better start inching back quickly, before the semester is over. I had fun Friday night. Your "boy?"

Giggles,

Thanks for the ...Push!!! It got me going in the right direction!

You know who

Tweedle Dum,

Just wanted to let you know that I wouldn't trade you for the world!

Love in KD,
Tweedle Dee

Matt & Sylv,

Clint night is "next" week!

Ha-ha

Mary Helen, Mary Helen,

You're a great sister! I really like your clothes, especially on me. Let's make chilli and chocolate pie sometime.

Love in KD,
Loser



Dave Libiez

Matt Leap of Delta Tau Delta participates in the annual homecoming pajama race

Beth,

Where is my personal? Here's yours!!!

KD Love,
YBS

Chi Omega,

You girls are AWESOME! Thanks for the support. I love you.

Vicki

Congratulations Vicki on becoming UMR's Homecoming Queen 1991!

Love,
Chi-O

Kim,

Thanx for taking care of me. I really appreciated it.

Love in AOT,
Denise

Tricia,

Was your sweetie so unsatisfactory you have to knee him & put him out of commission?

ybs

Schonda,

You're so special! And you make everyone else feel that way too!
Your great-great-great granddaughter

Jill,

Thank you so much for everything! If you EVER need anything, you know where to find me.

Love in KD,
Andy

Tricia,

The song may be lambda shack but, get serious. It's your guy who walking bow-legged. Slam!

ybs

Susan,

I'm glad you're my lil' sis. And get psyched to party Friday!

Love in KD,
YBS

Chris,

You're wonderful! Just thought I'd let you know. Obviously, I'm not the only one who thinks so.

Love in KD,
The One Who Always Gives You A Hard Time

Mary,

We wish to welcome you as the newest member of the Kay-Dee Bunch! We're so happy to have you!

Love in KD,
Your Pledge Sisters

Shonda,

Thanks for understanding the needs of a fellow chocolate lover! You're Great!

Love in AOT,
Dork

See Classifieds page 8

Classifieds

from page 7

Princess,

So, how did it go?

Ellen,

Anyone who says fish act like gophers must have serious problems. It's probably related to that crunching sound in your head!

JRM,

The last three weeks have been Great!!!! I hope it stays that way for a long time.

The Doctor

Sandy,

Congratulations! I'm so happy for you and I just wanted to say it couldn't have happened to a nicer person!

Love in KD,
One of your sisters.

Amy, Beth, Cheryl, Chris, Cyndi, Janet, Jenny, Julie, Sandy, Stacy, Tricia, Susan, and Mary
You are all **SIMPLY THE BEST!**

Love in Kay-Dee,
Cindy

Noelle,

Distinguishing between "love" and "pure animal lust" is difficult. Researching each encounter is fun though.

You Know You

Mr. Parker,

Have you forgotten my phone number?

Who else calls you Mr. Parker

Giggles,

Thank you for being St. Pat's PP's, FFF's, and MMM's with me! I'm so glad we're in the same family!

Love in KD,
RN

Craig,

Happy Birthday to a great BIG BRO.

Love,
YLS

J,

I'm glad I made number one.

DOC

Buttheads,

It's about time for another TGIF.

The one who doesn't live with you

Debbie,

Great job with QUEENS!!! Wish you were gonna be here next year.

I will be

Bauer,

You are going to start getting a regular visitor now on Tuesday and Thursday mornings!

SLY

TO THE UMR RUGGERS:

GOOD LUCK AT HEART OF AMERICA

A UMR rugby fan

Midterm Maniac M,

We have to party together more often!

the other Midterm Manian M

Angel,

You're the best, grandma! Thank you so much for all the little things you do for me-and the big things, too!

Love in KD,
Andy

Diane,

How about joining me for lunch after Friday's workout? I could use that car wash now-I don't think I can wait until spring.

T(The guy from the gym)

Beth, Beth M., Denise, Janet,

I love to party with my Kappa Delta/Phi Kap buddies! Let's do it more often!

Giggles

VD,

I'm so glad we're related now! You're a great little sister and an awesome pledge.

Please try to keep that dingy blondness under control, though.

Love in KD,
RN

Phi Kaps,

Western Party was fun!!! Thanks!!!

Jim

Jamie,

Smile. I am.

RP,

Sounds like you had a wild experience with a trashcan. Hope you are feeling better now.

Giggles

Nadra,

I'm so glad that you're my big sis! Even if you WERE a liar! I love ya!

YLS,
Andy

Luke,

Better watch your step, or you might just 'trip' up!

VPX

Jill & Nina,

Thanks for the encouragement during our study-a-thon at the library. I couldn't have made it without you.

Organic Freak

Lew,

You really should at least act like you busy, even if you aren't. Don't you feel guilty about getting paid for doing nothing?

You better be nice to L.H. or else.

Hacker

419 E. 11th,

Please bear with me-I'm having a rough time right now.

Just one of the gals(I hope)

Nina,

Can't keep your socks on in the library? Are you sure they're your socks?

O.F.

Bauer,

Chill out in your sections, dude.

Bart

Omega Sigma,

We did it!!!! Get psyched for one heck of a semester!!!

P.S. Thanks for everyone's help.

Vick,

CONGRATULATIONS!!!!!!!!!!!!!! I'm so proud of you! No one deserves the honor as much as you do.

Love ya,
Syl

WHEN IS CLINT NIGHT????????????

Cyndi,

You're so sweet! You always think of others before you think of yourself. Maybe it's time you reversed the order? Remember that I love ya and I'm always here for you. That's what sister are for!

Love in Kay-Dee
Andy

Tweedle Dum,

Where have you been hiding?

Tweedle Dee

Announcing,

It must be Kay-Dee week. Wow, Psych out! Congratulations to those gals of Kappa Delta. Impressed

TD

Laura,

Congrats on your new appointment! So, where's the real (cold) soda??

An interested soda drinker
P.S. I do not like wide-open spaces!

Beth,

Congratulations! One month + ...and counting!

Love in KD,
A

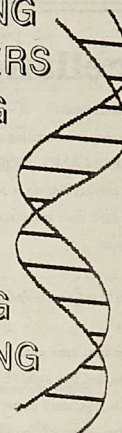
Michelle,

Hats off to you!!! for putting on one of the best Homecomings yet. Everything went soooooo smoothly.

Doin' it next year.

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GENE THERAPY
RECOMBINANT DNA
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LS231 GENERAL GENETICS

Winter Semester 1991

No Prerequisites

Ron Frank, Instructor

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Alcohol, how can it be responsibly dealt with?

A few pertinent facts about the law Chancellor kicks off awareness week

By Kelly Bernal
STAFF WRITER

Whether or not officially approved, alcohol is a fairly entrenched part of the majority of students' social lives. A law went into effect in December of 1987 that effected the lives of most students under the age of 21.

The following information is taken from the Attorney General's Advisory on the law:

Missouri teenagers face tougher penalties for alcohol and drug abuse—penalties that directly affect their driving privileges—under the state's "Abuse and Lose" law, Attorney General William L. Webster, the state's top legal official, endorsed the law by stating that "Drinking and driving is a problem of tragic proportion among Missouri's youth," Webster said. "We can't afford to lose any more of our youths in tragic and senseless accidents. This law, I believe, brings the consequences of drinking and driving into a youth's perspective. It hits them where it hurts most—their driving privileges."

operating a motor vehicle—will be revoked for one year. Revocation will start on the youth's 16th birthday.

In addition, the law stipulates that the driving privileges of anyone 21 or older—convicted of possession or use of a controlled substance while driving a motor vehicle—can be revoked.

Webster emphasized the penalties under Missouri's "Abuse and Lose" law are in addition to the criminal penalties for drug and alcohol abuse, such as the assessment of points against a driver's license.

"Another point to reamer about Missouri's drug and alcohol laws," Webster said, "is that refusing to take a breathalyzer test to determine the amount of alcohol in a person's system is admissible as evidence in court."

A local bar owner, speaking on the condition of anonymity, wished to remind students "that if they attempt to purchase alcohol by using a fake ID the owner of any establishment can have that minor arrested on accounts of possessing an altered ID as well as attempting to purchase alcohol illegally. It is just plain stupid—we can tell if a license has been altered. Drink-

By Dr. Martin Jischke
CHANCELLOR

I encourage your participation in UMR's National Collegiate Alcohol Awareness Week activities to be held October 21-27 at UMR and at other times on college campuses throughout the country.

While thinking responsibly about alcohol is not something that can or should be confined to a single time period, this week is a useful opportunity for all of us to examine our attitudes toward alcohol.

The Substance Abuse Prevention Program at UMR sponsors and coordinates alcohol education and prevention efforts. In addition to advocating the responsible use of alcohol by those

of legal age, UMR also provides support to those suffering the effects of alcohol abuse by sponsoring a campus chapter of Alcoholics Anonymous. Students, faculty and staff seeking

help in dealing with an alcohol-related problem are also encouraged to use the confidential services at Counseling and Career Development 204 Norwood Hall.



Under this law anyone under the age of 21 will lose their driver's license for one year if convicted of:

*Any state alcohol-related traffic offense, including driving while intoxicated.

*Any state violation involving the possession or use of alcohol while driving a motor vehicle.

*Any offense involving the possession or use of a controlled substance.

*Any state offense involving the alteration, modification or misrepresentation of an operator's or chauffeur's license.

The law also states that driving privileges of those under 16—convicted of possessing alcohol while

ing just isn't worth the cost."

There used to be only one liquor agent in the local five county area. Recently more agents were hired, thus increasing the ability and opportunity to enforce the law. The state has changed its emphasis concerning who would be arrested if a minor is caught drinking in a bar or other establishment. Its past practice has been to arrest the establishment personnel and

the owner, but to let the minor go often with only a warning. With the "Abuse and Lose" law as well as a national trend towards cracking down on alcohol and drug abuse, they are now prosecuting the minors as well—believing that they are more responsible for their criminal behavior.

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Whew, just when you thought you might be left out in the cold during January break—Sunchase comes through again. Your response to our quality and low priced 9th Annual Collegiate Winter Ski Breaks has been overwhelming. So, we've been able to add limited additional space at each destination but don't wait too much longer as in year's past, it's sure to be a sell out soon.

Ski Break by yourself, with your friends or organize a group of 19 and SKI FREE! All ski breaks include your choice of Fully Equipped Condominium or Hotel Lodging for 5, 6 or 7 nights; all Lift Tickets, Welcome Goodie Bag full of participating corporate sponsor product samples and area information.

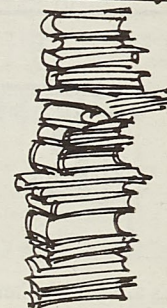
Steamboat, Breckenridge or Vail/Beaver Creek. The hardest part is choosing which destination to "conquer" this coming season!

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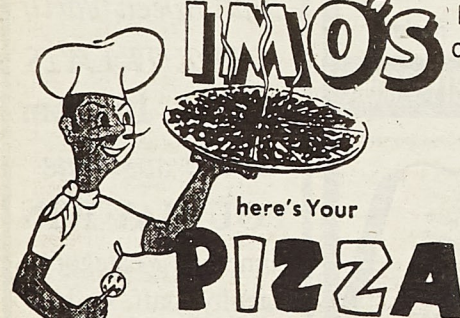
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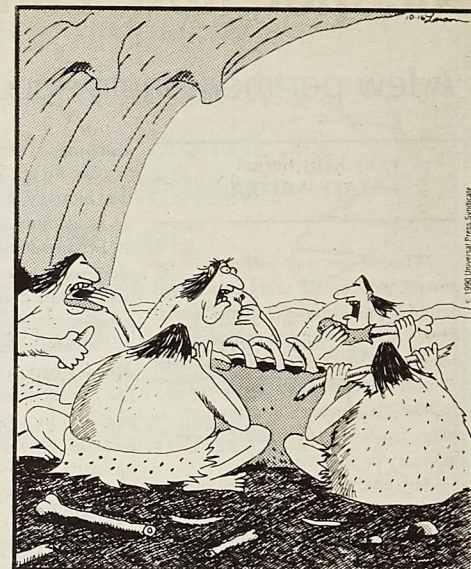
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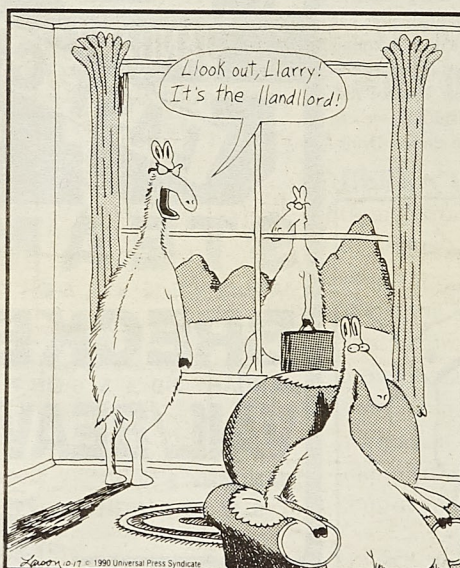
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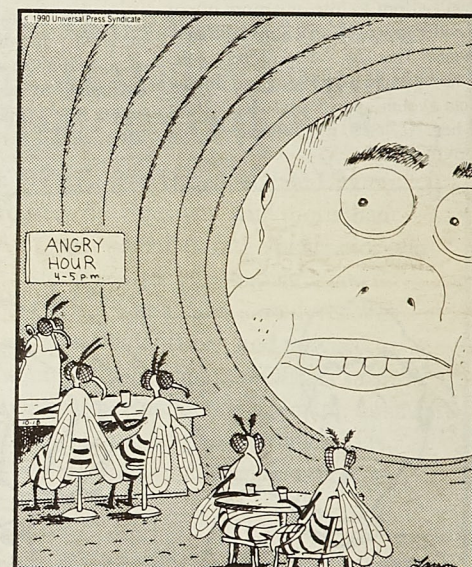
Hopeful parents



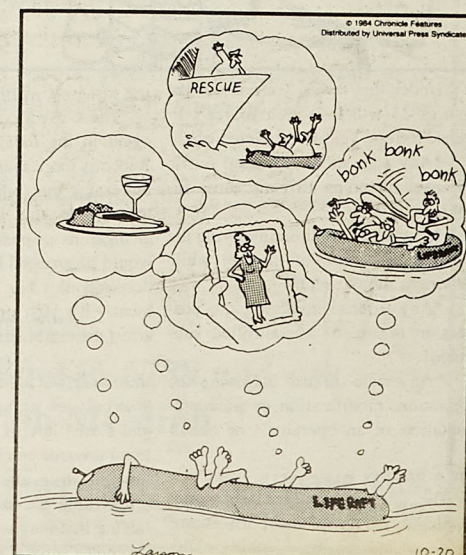
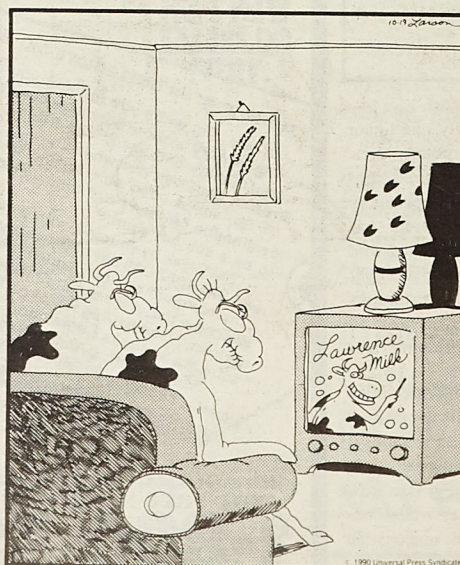
"Zak! Don't eat parsley! Just for looks!"



Llamas at home



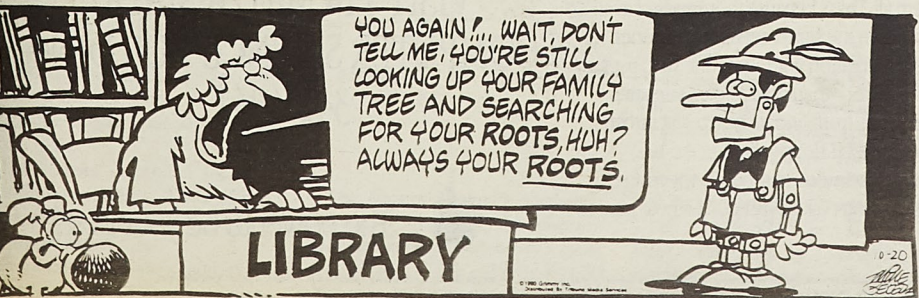
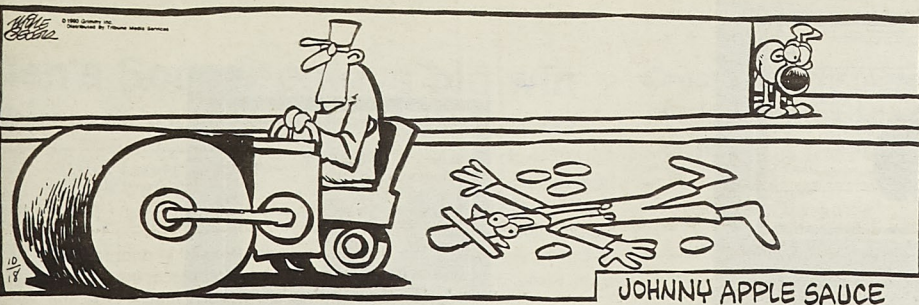
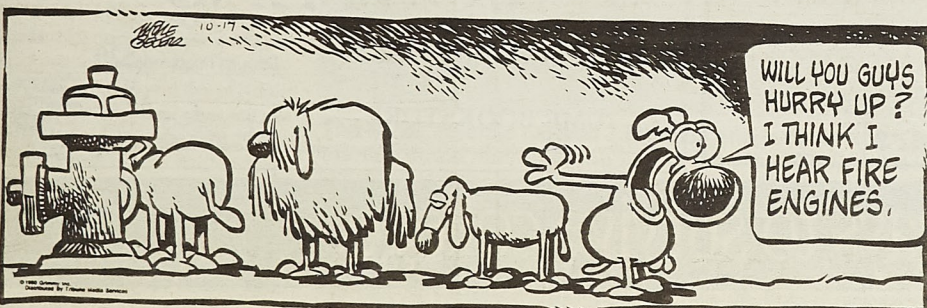
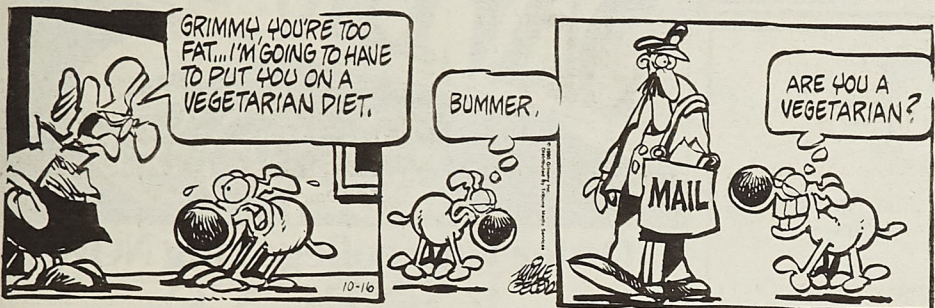
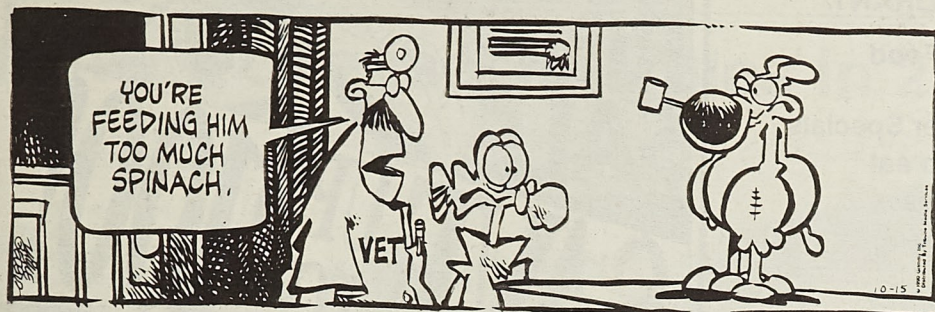
It was foolish for Russell to approach the hornets' nest in the first place, but his timing was particularly bad.





Mother Goose & Grimm

by Mike Peters



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Sports

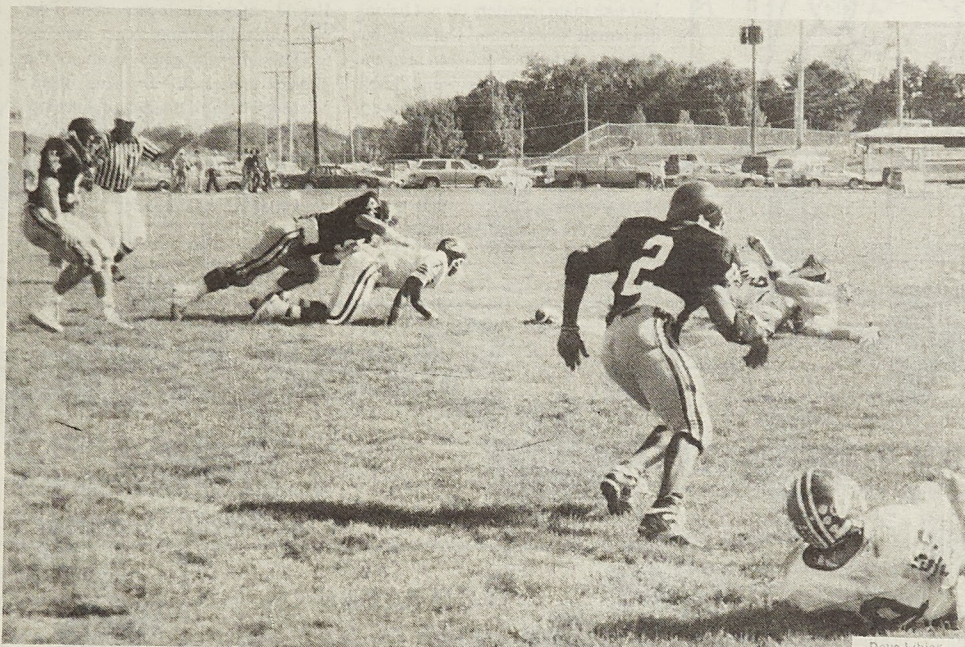
Miner's offense struggles in 21 - 13 loss to NWMS

By Tom Brown
ASST. SPORTS EDITOR

It was a fired up Miner football squad that took the field at Saturday's Homecoming game against Northwest Missouri State, but the emotion dwindled and they left the field with another loss. Although UMR took the early lead by scoring in just over two minutes, they squandered countless opportunities to come out on top. They lost the game by a score of 21-13, with the final touchdown being scored dramatically by Mark Diamond, as he picked up a loose ball and raced 50 yards for the score with no time showing on the clock. It was too little, too late for the Miners.

UMR kicked the ball off to begin the game. The Miner defense came onto the field and right away made their presence felt as they hammered a Bearcat ball carrier forcing a fumble, which senior safety Dan Herzberg recovered at the 36 yard line of Northwest. The offense then came out and powered the ball against the Northwest defense. It took just five plays and a little over two minutes for Vincent Banks to move the ball across the goal line, putting the Miners on top 7-0.

The defense of the Miners again came alive as they forced Northwest to punt on their next series. The offense



The Miner defense caused 7 fumbles and recovered 5. These lead to the only points the offense could muster in the 21 - 13 loss to NWMS at the Homecoming game on Saturday.

again moved the ball with relative ease behind the strong running of sophomore fullback, Rick Henry. They marched the ball to the Northwest ten yard line, but a penalty moved them back ten yards to the 20. That is where the Miner offense stopped. Facing a

fourth down, the Miners opted to go for the 37 yard field goal, but the kick was no good as the ball collided with the crossbar.

Then the Bearcat running game took over as they scored on two consecutive drives putting them up, 14-7.

The Miners recovered a fumble with a minute left in the half giving them the ball on their own 35 yard line. Quarterback Greg Dennis took charge as he rumbled 50 yards before he was pulled down at the Northwest 15 yard line. The offense failed to put the ball into

the endzone and so decided to go for the field goal again, and again they came up empty handed as the kick was blocked by a Northwest defender. The Miners went into the locker room down 14-7.

The second half was a continuation of the second period as the Northwest offense again moved the ball against the defensive squad of the Miners. The bright spot was the fact that the Miner defense forced seven fumbles in the game and recovered five of them.

"...the Miner offense sputtered as they went six for 17 in the air ..."

However, the Miner offense sputtered as they went six for 17 in the air and threw three interceptions. The offense was highlighted by the running of Henry who rolled up 115 yards on 19 carries.

The UMR defense was led in tackles by Mike Swinford and Mike Noble each with 11 tackles. Herzberg and Mike Chandler had ten and eight tackles respectively. Kurt Daniels had two fumble recoveries during the afternoon.

The Miners will be on the road for the next two weeks and will return home on November 3rd to host Missouri Southern.

Men's Soccer enjoys big win

Offense breaks out of their slump with 5 goals in victory

By Jeff Lacavich
STAFF WRITER

On October 13th for homecoming, the Rolla soccer team tallied an impressive win over Lindenwood College at 5:00 p.m. The kickers won five to one to lift their season record to 5-6-1.

The game was a well played game and was good to win because they have a tough game against Southwest Missouri State on Wednesday. The game was not to physical and the referees did a respectable job.

Lindenwood had a very fast front line, which gave the team some worries before the game started. This would not be a factor as the game progressed.

Pat Snider started off the scoring about 15 minutes into the first half. Chris Sulincevski made the score two to nothing Miners about ten minutes later. Snider scored again to make it 3-0 at the half.

The kickers controlled the first half with no problems. The half was played mostly at the opponents end with lots of shots.

The second half was a more-playing-the-field type of game. Linden-

wood scored on a breakaway. The ball was all over the field. Sulincevski scored his second goal. Doug Tieber added one of his own to round out the scoring. The game would end up 5-1, but it could have been broke open many times.



The Miners outshot Lindenwood 35-8 and we missed lots of opportunities. Good luck on Wednesday's game versus SMSU. The game is at 7:30 p.m. at the Miner Soccer Complex.

Cross Country teams prepare for the MIAA conference meet

By Buck Simpson
STAFF WRITER

The luck of both UMR Cross Country teams took a downward slide two weekends ago as the Miners travelled to Chicago, Illinois for the Loyola Invitational.

The Lady Miners, coming off great performances at the Miner Invitational meet were a little flat in their 5,000 meter race. Jeanne Jackson led the women harriers for UMR as she finished in 22:51 for 176th place. Gina Turner was next in 24:12, followed by freshman Becky Wilson at 25:15. The University of Alabama was the overall winner in the women's race with 51 points.

On the men's side of the coin, senior John Conrad led the team with a 27:32 clocking good for 52nd place. The duo of Dirk Frisbee and Steve Hostetter crossed the line next in 28:21 and 28:25, while Kerry Kimmel and Quinten Nuttmann finished in at 29:10 and 29:15 to finish out the top five for UMR. Their effort, in a field of 28 teams, was good for 13th while the University of Alabama again took first with 34 points.

KEY SPORT FAN IN THE STANDS



This week's Fan in the Stands attended the Miner football game versus NMSU. If this is you, come claim your prize at the Miner office, 103 Norwood, on Thursday at 4:30.

Coach Sara Preston will take the Miners to Cape Girardeau October 20th for the MIAA Conference Meet. Hopefully, the Miners will be able to

rebound and surprise a lot of teams at conference's hilly course, but it will take strong performances from both the men's and women's teams.

Blues Power

The team has under gone many changes as they try to recapture their winning ways of 80-81

By Tom Hughes
SPORTS EDITOR

Think back to a decade ago. The St. Louis Blues were challenging the New York Islanders for the overall championship in the NHL regular season. The Islanders were then in the midst of their for Stanley Cups in a roll.

(Whitey Herzog had just been named manager of the Cardinals in Summer of 1980. This seems to be a coincidence.) The Blues sold out nearly every game during this run. They finished in second place with 103 points, four points behind New York.

The Blues suffered through some lean years in the 80's. They were rumored to be headed to Saskatoon in 1983. They were sold twice in a four year period. They were labeled as having "cheap skate" management.

That has all changed now. The 1990's are a new decade and this is a new team. The town is once again thinking Hockey, Hockey, Hockey! Owner Mike Shanahan spent nearly \$12 million this summer to ink Brett Hull and Scott Stevens. The team is now being talked about throughout the league.

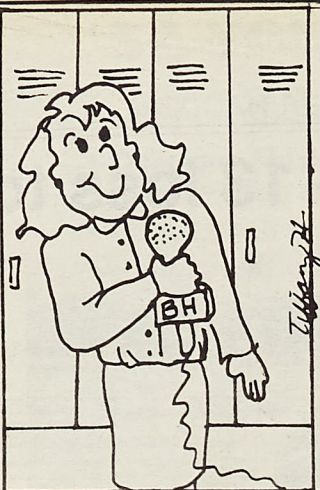
Anything less than the semi-finals would make this season a failure ... the skies the limit for this team over the next five years.

Ten years ago the team's success was a surprise. Sutter, Federko, Babych, and Liut were the mainstays then. Their performance that year was above and beyond the call of duty. Stevens, Hull, Oates, and Courtnall have tremendous pressure on them this year. Anything less than the semi-finals would make this season a failure.

The regular season got under way two weeks ago. St. Louis is off to an average start. It will take this team some time to mesh. They have several new key players. Once this team does click it should be the finest team St. Louis has seen since the 1960's.

As with that team so many years ago, this group should go to the Stanley Cup Finals. It won't be until their two young goalies develop, but it should be by the end of the next season.

If St. Louis is ever to have a winner other than the Cardinals this is the group to do it. G.M. Ron Caron and Coach Brian Sutter have put together a good group of young talent. The sky is the limit for this team over the next five years. I only wish Dan Kelly would be telling us about it.



Controversy: Women in the lockerroom

By Tom Brown
ASST. SPORTS EDITOR

Hey, let's face it, female reporters do not belong in a male locker room. Just like male reporters do not belong in a female locker room. I'm sorry, but there is a difference between men and women and I sure hope we all know what it is. A woman reporter has every right to interview any person she sees fit, but not if that place is off limits to females in general.

It's a basic concept that everybody, and I mean everybody has been

taught since they were kids. Boys can't use the little girl's room and vice versa. So, what is the point of all this conflict? What is the big deal?

For those of you who are in the dark on this, Lisa Olson of the Boston Herald, entered the locker room of the New England Patriots to get some interviews after the game. Some of the players undressed, exposing themselves to her in all their natural beauty. The players made lewd comments that were in no way justified. A big stink was made, fines were handed out, and we get a prime time story!

Now don't get me wrong, I definitely do not condone their actions for Lisa Olson is a lady and deserves to be treated as such. Those players showed bad taste and are a disgrace to the male race. But, (always a "but" isn't there?) if she wants to be treated as an equal reporter and given equal access to the players, then she shouldn't get special treatment because of her gender.

So it all boils down to the fact that if women want to be treated as equal to men, then they must sacrifice their femininity because equality doesn't know gender.

Water polo wins SIU invitational

By Paul Baudendistel
STAFF WRITER

The juggernaut that is UMR Water Polo rolled over its "competition" at Southern Illinois University—Carbondale the weekend of October 5th and 6th. Outscoring their opponents by a whopping total of 69-9 in only three games, the Miners raised their record to an impressive 6-1. Thanks to some superb defense, an unstoppable offense, and goalie Jeff Kuta's consistency, the Miners placed first in the seven team tournament.

Rolla's squad crushed SIU 30-0 in their first contest on the strength of Tim Streb's ten goals. Junior Mike Stus wriggled his way to a triple hat trick, while Rich Berger popped in five of his own. Further scoring punch was added in the form of Andy Connolly's single tally, and even Jeff Kuta contributed two goals. Freshman Paul Baudendistel managed to preserve the shutout with three clutch saves in his stint in goal during the decisive fourth quarter, after notching three goals early in the game.

UMR's most improved player, Brian Klein, contributed three goals in the Miners' second victory, 23-4 over Vanderbilt. Rolla's balanced scoring attack included further hat tricks by Baudendistel and Berger, four tallies by Connolly, and five goals apiece by Streb and Stus.

Then, after and eternal five hour wait, the Aquajocks trounced the University of Illinois in Rolla's closest match, 16-5. Berger unleashed his cannon, cranking in all five penalty shots drawn by the Miners' relentless offense. Streb's four goals, Stus's hat trick, Connolly's pair of scores, and single marks by Baudendistel and Klein rounded out Rolla's offensive onslaught.

When questioned about his contributions to the Miners' success, Stus proclaimed, "I couldn't have done it without my teammates." In accord with that spirit of camaraderie, Berger stated, "It was a team effort." Bat-coach Mark Mullin punctuated UMR's stellar performance in the pool by commenting, "The victory was nice, but I'm glad that this tournament was such a boost for the team character."

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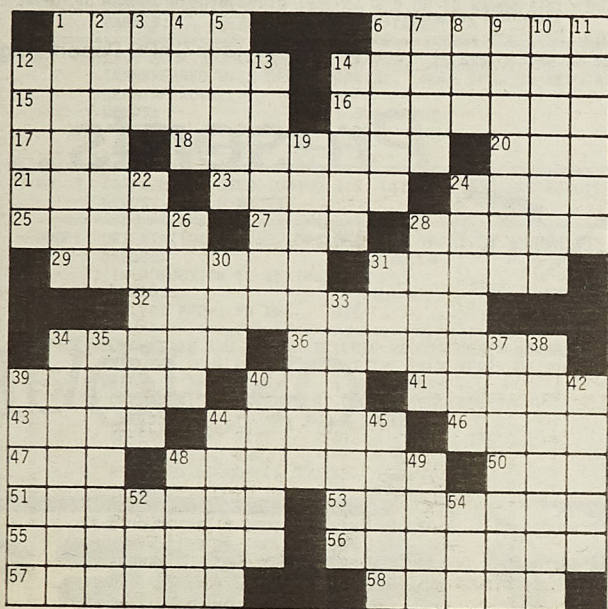
Rolla Building

University Center-West



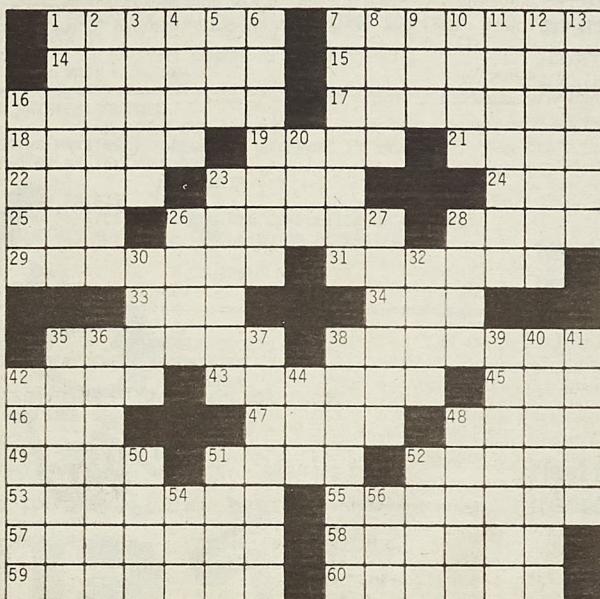
Fun & Games

collegiate crossword



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collegiate crossword



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ACROSS

- 1 Chew noisily
- 6 Inundates
- 12 "Ben Hur" vehicle
- 14 French city or lace
- 15 Toiler
- 16 — point
- 17 Mr. Wallace
- 18 Entertainers
- 20 Map abbreviation
- 21 Baseball champs of 1986
- 23 Startle
- 24 Fibber
- 25 Stupefies
- 27 Weight units (abbr.)
- 28 Bell sounds
- 29 Ocean story? (2 wds.)
- 31 Dr. Salk
- 32 Beige (2 wds.)
- 34 Bay of Naples isle
- 36 Sleigh parts
- 39 Military student
- 40 Confer knighthood upon
- 41 Inscribed stone

- 43 Taking repose
- 44 Cowboy gear
- 46 Slight or remote
- 47 Equilibrium (abbr.)
- 48 Figures out
- 50 Miss Lupino
- 51 Mouthlike opening
- 53 Cats
- 55 Terms of office
- 56 Comrades
- 57 Cubic meters
- 58 Potatoes

DOWN

- 1 Ski lodges
- 2 Frequenter
- 3 Spanish-gold
- 4 "Look out!" (Sp.)
- 5 John Donne's forte
- 6 Blaze of light
- 7 Telescope part
- 8 Canadian province (abbr.)
- 9 Simple wind instrument
- 10 I.D. collars (2 wds.)
- 11 Shows scorn

- 12 Mr. Kaddishopper, et al.
- 13 Submit tamely
- 14 Affirms
- 19 Plains plant
- 22 Broke, as a losing streak
- 24 Small finches
- 26 Commence
- 28 Epsom
- 30 Miss MacGraw
- 31 Actor — Hall
- 33 Has an influence on (2 wds.)
- 34 Long-running Broadway show
- 35 "Sweet —"
- 37 Like serviced brakes
- 38 Baseball pitches
- 39 English explorers
- 40 Fruit favorite
- 42 Gather together
- 44 Sneaker part
- 45 Hebrew measures
- 48 — drill
- 49 — happy
- 52 Game show prize
- 54 Printer's union

ACROSS

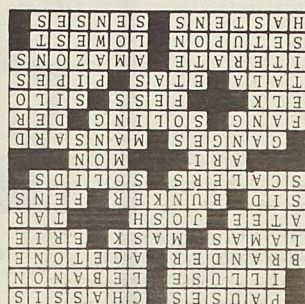
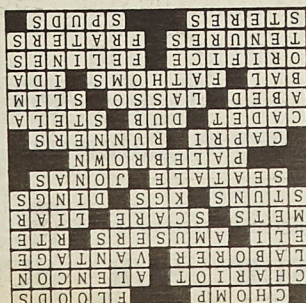
- 1 Tape recorder buttons
- 7 Auto section
- 14 Treat badly
- 15 Beirut's country
- 16 Ranch worker
- 17 Paint solvent
- 18 Fernando
- 19 Disguise
- 21 Great Lakes port
- 22 To — (exactly)
- 23 Singer White
- 24 Sailor
- 25 Mr. Caesar
- 26 Golf course hazard
- 28 Swamps
- 29 Mountain climbers
- 31 Types of food
- 33 Onassis, for short
- 34 Calendar abbreviation
- 35 River in India
- 38 Type of roof
- 42 Canine tooth
- 43 Fixing a shoe
- 45 German article

- 46 Fraternal member
- 47 Mr. Parker
- 48 Storage place
- 49 Geological basin
- 51 Letters, in Athens
- 52 Lungs
- 53 Repeat
- 55 S. American tribe
- 57 Attack (2 wds.)
- 58 Most depressed
- 59 Goes hurry-scurry
- 60 Perceives

DOWN

- 1 Like Captain Kidd
- 2 California city
- 3 Arm bones
- 4 Beer
- 5 Compass point
- 6 Lectures
- 7 Conflicts
- 8 "Darn!"
- 9 Honest
- 10 Gratify
- 11 Imitated Mr. Ed
- 12 People of ancient Asia Minor

- 13 Smiles derisively
- 16 Fashion designer Bill
- 20 Query
- 23 Courtroom bodies
- 26 Ending for "ice"
- 27 Cato and Caesar, e.g.
- 28 Flippers
- 30 Auld — Syne
- 32 — Beach, Calif.
- 35 Pygmalion's statue
- 36 Short socks
- 37 Begins to melt
- 38 Prayer books
- 39 Fatty
- 40 Slackens
- 41 Waste matter
- 42 Worship object
- 44 Meadow
- 48 Clothing categories
- 50 In — (stagnating)
- 51 Boy's school near London
- 52 Chess piece
- 54 "The Hairy —"
- 56 Curly's brother



CAPS Report outlined, aid preregistration

Registrar's Office
SOURCE

What is CAPS?

CAPS is software connected to the UMR Student Information System which permits your department's degree requirements to be stored in the computer database by the semester and year that they were approved. When a CAPS report is run for you it matches your transcript course data with the stored degree requirements corresponding to your catalog year. The report shows how your courses fit the degree program and what courses remain to be taken. CAPS keeps everyone informed of your progress towards a degree with a common document.

How does CAPS work?

CAPS is set up with a series of conditions called requirements. A typical requirement may be a minimum grade point average or a specified set of courses grouped by common categories. Your transcript data is passed through these requirements to see if your courses and grades meet the stated list of courses and grade conditions. Requirements are numbered in sequence and are separated by rows of "=====". Typical CAPS reports will have 15-20 requirements. For clarity and programming logic, requirements are usually broken down into subrequirements which are listed sequentially below the requirements. Subrequirements will have descriptive titles to assist with the understanding of what is needed.

How do I know if a requirement or subrequirement is met?

If a requirement's conditions are met it will have an "OK" printed to the left of the requirement number; if it is not met it will have "NO" printed next to it. When a subrequirement condition is met it will have a "+" sign printed to the left of the subrequirement number; if it is not met it will have a "-" printed next to it. Requirements are not met until all subrequirements of that requirement have been met. To find what you still have remaining to satisfy your degree requirements scan the report for "NO" and minus signs (-). There will be helpful summary messages as well indicating what you still need to complete such as one course, 3 hours, or a 2.000 gpa (the gpa calculations are truncated in CAPS).

What if my courses don't fit?

First, see if CAPS used the correct catalog year. If you have changed to a newer catalog year or there is an error in your catalog year inform the Registrar's Office and request a new report. Any changes to your catalog year must be made officially through the Registrar's Office. If you have advisor approval to take a course that doesn't fit CAPS make sure that you have processed an official exception form with the Registrar's Office so this can be stored in CAPS and documented when

your final graduation check is made. Exceptions to the published academic content of your degree program must have the approval of your department chairman and school dean.

What is my catalog year?

Your catalog year is the term and year that you entered any university or college after high school graduation. UMR regulations permit you to graduate by meeting departmental, school or college and university degree requirements in effect at that time provided you remain continuously enrolled. Your catalog year may or may not

correspond to UMR's published catalog which is issued every two years.

What is the CAPS catalog year?

CAPS works with all changes to degree requirements even between publications of the UMR catalog. CAPS has a catalog year that corresponds to each approved departmental degree program starting with fall 1983 (not all are complete at this printing). Your catalog year is matched with the CAPS catalog year to determine your degree requirements.

What if I leave and re-enter UMR?

If you interrupt your college en-

rollment for consecutive fall and winter terms, your catalog year will be reassigned to the term and year of readmission. You may appeal to your department chairman to reinstate your original catalog year. A successful appeal should be filed with the Registrar's Office. All students can elect to change their catalog year to the most recent term and year and should file this request with the Registrar's Office.

How do I get a CAPS report?

CAPS reports are available to most undergraduate students through their

departmental advisors if they entered college fall 1983 or later. Some departments are just coming on-line with CAPS and the reports are in the developmental stage. Your patience is appreciated while we go through the "debugging" process. Hopefully most problems will be gone by December 1990. The opposite page provides an example of one page of a typical two page report for an undergraduate student in Mining Engineering.

see CAPS Report, page 17


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CATALOG YEAR: FS87

Notes for Special Symbols

IP

Grade means course in progress

PR

Same as IP but a transfer course; a final transcript from the previous is needed

E

Next to the UMR grade reflects credit by exam

T

Nest to th grade denotes transfer course

> R

Denotes repeatable courses such as special topics. Credit given for each occurrence.

> D

Denotes duplicate course - credit can only be allowed once for this course.

> C

Denotes cross-listed courses (courses that are the same but listed under several different department's designation). Credit only allowed once for this course.

> I

In-progress course

COLUMN 1		COLUMN 2	
-----> AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED <-----		*NO 9 COMMUNICATION SKILLS COURSES	
OK 1 CUMULATIVE HRS. A 2.00 GPA REQUIRED TO GRADUATE FROM UMR		NEEDS: 2 SUB-GROUPS	
EARNED: .0 HOURS 1 SUB-GROUP		1) RHETORIC AND COMPOSITION - TAKEN EITHER SEMESTER OF	
OK 2 ALL COURSES TAKEN ON UMR CAMPUS MUST HAVE 2.00 GPA		NEEDS: 1 COURSE	
EARNED: .0 HOURS 1 SUB-GROUP		SELECT FROM: ENGLISH 001	
OK 3 COURSES TRANSFERRED TO UMR		2) COMMUNICATION ELECTIVE	
EARNED: .0 HOURS 1 SUB-GROUP		NEEDS: 1 COURSE	
OK 4 HONORS AT GRADUATION BASED ON THE UM CUMULATIVE GPA		SELECT FROM: ENGLISH 060, 160 SP&M S 085	
3.2 CUM, 3.5 MAGNA, 3.8 SUMMA		*NO 10 REQUIRED MATHEMATICS COURSES	
EARNED: .0 HOURS 1 SUB-GROUP		NEEDS: 2 SUB-GROUPS	
OK 5 SCHOOL REQUIREMENTS INCLUDE A 2.00 IN MAJOR FIELD OF STUDY		1) CALCULUS SEQUENCE - NORMALLY TAKEN IN THE FIRST THREE	
EARNED: .0 HOURS 1 SUB-GROUP		SEMESTERS OF COLLEGE	
NO 6 LAST 60 HRS SHOULD BE ON CAMPUS. 15 HRS OF THE 60 MAY BE		NEEDS: 3 COURSES	
TRANSFERRED WITH DEPT APPROVAL. MORE THAN 15 REQUIRES		SELECT FROM: MATH 008, 021, 022	
DEAN APPROVAL.		2) DIFFERENTIAL EQUATIONS REQUIREMENT - REQUIRES COMPLE-	
NEEDS: 1 SUB-GROUP		TION OF SUBREQ #1	
1) NEEDS: 60.0 HOURS		NEEDS: 1 COURSE	
SELECT FROM: ****		SELECT FROM: MATH 204	
NO 7 TOTAL HOURS USED TOWARD B.S. DEGREE - 132 HRS REQUIRED		*NO 11 REQUIRED PHYSICS COURSES	
NEEDS: 132.0 HOURS		NEEDS: 2 SUB-GROUPS	
NOOPT ORIENTATION COURSE (OPTIONAL FOR TRANSFER STUDENTS)		1) ENGINEERING PHYSICS I - REQUIRES STUDENTS TO HAVE	
NEEDS: 1 SUB-GROUP		COMPLETED OR BE TAKING MATH 21	
1) INTRODUCTION TO ENGINEERING		NEEDS: 1 COURSE	
NEEDS: 1 COURSE		SELECT FROM: PHYSICS 023	
SELECT FROM: FR ENG 010		2) ENGINEERING PHYSICS II - REQUIRES COMPLETION OF PHYSICS	
NO 8 HUMANITIES AND SOCIAL SCIENCE REQUIREMENTS NORMALLY DIS-		23 AND STUDENTS MUST HAVE COMPLETED OR BE TAKING MATH	
TRIBUTED EQUALLY THROUGHOUT THE FOUR YEARS OF STUDY		22	
NEEDS: 16.0 HOURS 4 SUB-GROUPS		NEEDS: 1 COURSE	
1) ONE AMERICAN GOVERNMENT COURSE REQUIRED		SELECT FROM: PHYSICS 024	
NEEDS: 1 COURSE		*NO 12 CHEMISTRY REQUIREMENTS	
SELECT FROM: HIST 112, 175, 176		NEEDS: 4 SUB-GROUPS	
2) REQUIRED ECONOMICS COURSE		1) FIRST SEMESTER GENERAL CHEMISTRY	
NEEDS: 1 COURSE		NEEDS: 1 COURSE	
SELECT FROM: ECONOM 122 OR 121		SELECT FROM: CHEM 001 & 002, 005	
3) 6 HOURS OF IN-DEPTH COURSES REQUIRING A PREREQUISITE IN		2) SECOND SEMESTER GENERAL CHEMISTRY	
HUMANITIES OR SOCIAL SCIENCES		NEEDS: 1 COURSE	
4) FOUNDATION COURSE FOR SUBREQ #3 OR ANY HUMANITIES AND		SELECT FROM: CHEM 003	
SOCIAL SCIENCE COURSE IF FOUNDATION COURSE IS AMERICAN		3) ELEMENTARY ANALYTICAL CHEMISTRY - REQUIRES CHEM 3	
GOV'T OR ECONOMICS (4 HRS)		***** CONTINUED ON COLUMN 3 PAGE 2 *****	
***** CONTINUED ON COLUMN 2 PAGE 1 *****		DEGREE AUDIT PRODUCED FOR: * WARNING *	
COLUMN 3		* FEDERAL LAW *	
NEEDS: 1 COURSE		* PROHIBITS *	
SELECT FROM: CHEM 014		* TRANSMITTAL TO A *	
4) PHYSICAL CHEMISTRY - REQUIRES CHEM 3 - NORMALLY TAKEN		* THIRD PARTY *	
IN SENIOR YEAR		COLUMN 4	
NEEDS: 1 COURSE		3) METALLURGY COURSES NORMALLY TAKEN FIRST SEMESTER	
SELECT FROM: CHEM 243		JUNIOR YEAR	
NO 13 BASIC SCIENTIFIC PROGRAMMING		NEEDS: 4 COURSES	
NEEDS: 1 SUB-GROUP		SELECT FROM: MT ENG 202, 203, 204, 217	
1) NORMALLY TAKEN 2ND SEMESTER OF SOPHOMORE YEAR		4) METALLURGY COURSES NORMALLY TAKEN SECOND SEMESTER	
NEEDS: 2 COURSES		JUNIOR YEAR	
SELECT FROM: CMP SC 073, 077		NEEDS: 4 COURSES	
NO 14 ENGINEERING SCIENCE COURSES		SELECT FROM: MT ENG 221, 222, 241, 355	
NEEDS: 3 SUB-GROUPS		*NO 17 ELECTIVES	
1) STATICS - MUST HAVE COMPLETED FIRST PHYSICS COURSE AND		NEEDS: 2 SUB-GROUPS	
COMPLETED OR TAKING MATH 22		1) TECHNICAL ELECTIVES - CONSULT WITH ADVISOR ON THE	
NEEDS: 1 COURSE		SELECTION OF THESE COURSES	
SELECT FROM: BAS EN 050		NEEDS: 15.0 HOURS	
2) MECHANICS OF MAT'L & LAB - REQUIRES COMPLETION OF		SELECT FROM: CR ENG 251, 286, 315, 364,	
STATICS		391, 392 CH ENG 381 CMP SC 228,	
NEEDS: 2 COURSES		260 E MECH 321, 322, 336 ENG MG 385	
SELECT FROM: BAS EN 110, 120		MATH 215 OR STAT 215 EL ENG 221	
3) ENGINEERING SCIENCE ELECTIVE		MATH 216 OR STAT 216 MT ENG 2**,	
NEEDS: 3.0 HOURS		3** PHYSICS 107, 307, 311, 381	
SELECT FROM: AE ENG 213, 231, 251, 253,		2) FREE ELECTIVES - CONSULT WITH ADVISOR	
271 CR ENG 102, 103, 251, 259, 286		NEEDS: 3.0 HOURS	
CH ENG 027, 141, 143, 231, 233, 335,		-> NOT FROM: MATH 002, 004, 006, 010	
381 CV ENG 215, 218, 230, 233, 261		PHYSICS 004	
CMP SC 228, 260 EL ENG 061, 063, 281,		SELECT FROM: ****	
283 E MECH 1** 311, 322, 336, 373		*OKOPT OTHER COURSES TAKEN AS GRADUATE CREDIT	
ENG MG 385 GE ENG 050 LIFE S 211,		EARNED: .0 HOURS 1 SUB-GROUP	
221 MATH 215, 216 STAT 215,		*OK 18 EXTRA TRANSFER COURSES NOT COUNTED TOWARD A DEGREE	
216 MC ENG 203, 204, 221, 225, 227,		EARNED: .0 HOURS 1 SUB-GROUP	
231 MI ENG 231 NU ENG 203, 221,		*OK 19 EXTRA COURSE WORK DONE ON CAMPUS THAT DOES NOT COUNT	
223		TOWARD A DEGREE	
NO 15 ENGINEERING DRAWING COURSE - NORMALLY TAKEN FIRST YEAR		EARNED: .0 HOURS 1 SUB-GROUP	
NEEDS: 1 SUB-GROUP		***** END OF ANALYSIS *****	
1) NEEDS: 1 COURSE		DEGREE AUDIT PRODUCED FOR: * WARNING *	
SELECT FROM: ENG GR 010		* FEDERAL LAW *	
NO 16 REQUIRED METALLURGY COURSES		* PROHIBITS *	
NEEDS: 4 SUB-GROUPS		* TRANSMITTAL TO A *	
1) METALLURGY COURSES NORMALLY TAKEN FIRST SEMESTER		* THIRD PARTY *	
SOPHOMORE YEAR		COLUMN 4	
NEEDS: 2 COURSES		3) METALLURGY COURSES NORMALLY TAKEN FIRST SEMESTER	
SELECT FROM: MT ENG 121, 125		JUNIOR YEAR	
2) METALLURGY COURSES NORMALLY TAKEN SECOND SEMESTER		NEEDS: 4 COURSES	
SOPHOMORE YEAR		SELECT FROM: MT ENG 202, 203, 204, 217	
NEEDS: 3 COURSES		4) METALLURGY COURSES NORMALLY TAKEN SECOND SEMESTER	
SELECT FROM: MT ENG 213, 215, 281		JUNIOR YEAR	
***** CONTINUED ON COLUMN 4 PAGE 2 *****		NEEDS: 4 COURSES	
		SELECT FROM: MT ENG 221, 222, 241, 355	

Placement

UNIVERSITY OF MISSOURI-ROLLA
Placement Office
Buehler Building, 9th & Rolla St.

PERMANENT EMPLOYMENT

FALL WEEKLY DETAIL LIST #9
Week of November 12-16, 1990

SIGNUP LOCATION: G-3 Buehler Building

SIGNUP HOURS: 7:45 to 11:15 a.m.
1:00 to 4:15 p.m.

PCC AIR FOILS, INC.
25201 Chagrin Blvd., Suite 290
Beachwood, OH 44122
attn: Ms. Leslee Elliott

NUMBER OF SCHEDULES: 1
MAJORS: BS/ME, MetE, ChE, (Fluid & Thermal)
POSITION: Management Development Program
LOCATION: Cleveland, OH
DECEMBER 1990, MAY, JULY 1991 GRADS
2.5 G.P.A.
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Oct. 13
INTERVIEW DATE: November 13, 1990

U.S. NAVAL WEAPONS CENTER
Code 22502
China Lake, CA 93555
attn: Pat Baczkiwicz

NUMBER OF SCHEDULES: 1
MAJORS: BS/MS/PhD ME, AE, EE, Math, Chem, Comp Sci, Physics
POSITION: Entry-level; 1st year work with 2 to 4 work groups to get overview.
LOCATION: China Lake (Mojave Desert)
recent grads, DEC. 1990 or MAY, JULY 1991 GRADS
3.0 G.P.A. PREFERRED
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Oct. 18
INTERVIEW DATE: November 13, 1990

WILLIAMS PIPELINE COMPANY
P.O. Box 3448
Tulsa, OK 74101
attn: Ms. Lou Meyers

NUMBER OF SCHEDULES: 1
MAJORS: BS/EE, ChE, ME, CE, PE
POSITION: Project Engineer
LOCATION: Tulsa, OK
DECEMBER 1990 or MAY 1991 GRADS
3.0 G.P.A. REQUIRED
PREFER U.S. CITIZEN OR PERMANENT RESIDENTS

DEADLINE FOR TURNING IN RESUMES: Thursday, Oct. 18
INTERVIEW DATE: November 13, 1990

HALLIBURTON LOGGING SERVICES
1540 Liberty Tower
Oklahoma City, OK 73102
attn: Mr. Larry Harlow

NUMBER OF SCHEDULES: 1
MAJORS: BS/ME, EE
POSITION: Junior Field Engineers
LOCATION: Mid-Cont. & N.E. U.S.
DECEMBER 1990 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, Oct. 18
INTERVIEW DATE: November 13, 1990

CLEVELAND CLIFFS
1100 Superior Ave.
Cleveland, OH 44114
attn: Mr. Wayne Speicher

NUMBER OF SCHEDULES: 1 ea day, Nov. 14-15
MAJORS: BS/MS EE, MetE, Geology or GeolEng., Mining or ME
POSITION: Engineering positions & supervision
LOCATION: Northern Minnesota, Upper Peninsula, Michigan
recent grads, DECEMBER 1990 or MAY, JULY 1991 GRADS
2.8 G.P.A. REQUIRED
U.S. CITIZENSHIP REQUIRED

INTERVIEW SIGNUP DATE: Tuesday, October 30, 1990
INTERVIEW DATES: November 14-15, 1990

PHASE IV SYSTEMS INC.
3405 Triana Blvd.
Huntsville, AL 35805
attn: Ms. Carolyn Pylant

NUMBER OF SCHEDULES: 1
MAJORS: BS/MS/PhD EE
POSITION: Systems Analysis - Electronic Engineer - Phase IV specializes in radars, communication, data links, test equipment & system simulation. More complete details will be available at time of interview signups.
LOCATION: Huntsville, AL
DECEMBER 1990 GRADS
U.S. CITIZENSHIP REQUIRED
3.0 G.P.A. PREFERRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Oct. 18
INTERVIEW DATE: November 16, 1990

ADDITIONS, CANCELLATIONS, ETC.

UNION PACIFIC TECHNOLOGIES
7930 Clayton Road
St. Louis, MO 63117-1368
attn: Mr. Ron Stockman

NUMBER OF SCHEDULES: 1
MAJORS: BS/MS CompSci & MIS
POSITION: Assistant Computer Programmer
LOCATION: St. Louis
DECEMBER 1990 or MAY 1991 GRADS

INTERVIEW SIGNUP DATE: Thursday, October 25, 1990
INTERVIEW DATE: November 3, 1990

TEXACO (E&P East Division)
(interview date: November 1, 1990)

The following degrees have been added to Texaco's E&P schedule: BS/CE, Geological Eng., or EE. Original request was for ChE, ME, PE. Please refer to Detail List #7, page 11 for job information. **SUMMER SCHEDULE FOR TEXACO HAS BEEN CANCELLED.**
DEADLINE FOR TURNING IN RESUMES: Thursday, Oct. 13
INTERVIEW DATE: November 1, 1990

ACME BRICK
4103 Dawson Road
Tulsa, OK 74115
attn: Mr. R.A. Neeves

NUMBER OF SCHEDULES: 1
MAJORS: BS/Ceramic or Mechanical Eng.
POSITION: Junior Management
LOCATION: Texas, Oklahoma, Kansas or Arkansas
DECEMBER 1990 GRADS
2.7 G.P.A. REQUIRED
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Oct. 18
INTERVIEW DATES: November 7, 8, 1990
(Information was not available in time for List #8.)

CANCELLATION: Dart Container - interview date:
interview date: November 6, 1990.

INTERNSHIP PROGRAM WITH DEPT. OF THE NAVY

The Naval Air Systems Command is announcing the Navy Civilian Logistics Career Intern Program. The following academic disciplines will be considered: Engineering, Business Administration, Marketing, Economics, Statistics or Computer Science. The scope and length of the training program (up to 3 years) depend on individual needs and career preference.
CONTACT: Ms. Darlene Birrell
DEPARTMENT OF THE NAVY
Naval Air Systems Command
Washington, D.C. 20361-4110
1-800-634-0743

CIVILIAN EMPLOYMENT OPPORTUNITIES WITH THE DEPARTMENT OF THE ARMY

Recruitment for non-Engineering students will be handled by examination. Testing for individuals interested in employment with the Federal Government is called Administrative Careers with America (ACWA). Information that defines occupational groups and the positions covered by each group is available at the UMR Placement Office. Note: Outstanding Scholars are excluded from taking the examination as are Accountants/Auditors with a 3.0 G.P.A. To be an Outstanding Scholar, the student must have an overall undergraduate G.P.A. of 3.5 or higher. If an adequate number of Outstanding Scholar students are available for on-campus/hotel interviews (three or more), AMC would be interested in interviewing them.
CONTACT: Ms. Dawn Mixon or Mary Fields
(916)388-3612
AMC WESTERN FIELD PLACEMENT OFFICE
Sacramento Army Depot
Sacramento, CA 95813-5057

Co-op Employment

October, 1990

CO-OP EMPLOYMENT OPPORTUNITIES

Sign-up location: 101 Buehler Bldg.
9th & Rolla Sts.
Co-op Office

Sign-up hours: 7:45 am - 11:00 am
1:00 pm - 3:00 pm

Interview date: Wednesday, Oct. 24, 1990

UNION PACIFIC RAILROAD
Omaha, Nebraska

Interviewing: C.E., E.E., M.E. (add Engr. Mgmt.)

Requirements: 3.0 GPA or above. Must be able to work in US. Academic level of applicants: at least 30 credit hours completed at the end of the semester.

Sign-up date: Wednesday, Oct. 10, 1990

start work summer 91

1 schedule - 13 interview openings

UNION PACIFIC RAILROAD WILL HOLD AN ORIENTATION ON TUESDAY, OCT. 23 IN THE MISSOURI ROOM, UNIVERSITY CENTER EAST FROM 7:00 TO 8:00 PM. ALL STUDENTS INTERVIEWING WITH UNION PACIFIC ARE ASKED TO ATTEND.

Interview date: Wed., Oct. 24, 1990

OLIN CORPORATION
E. Alton, Illinois

Interviewing: Ch.E., C.Sc., M.E.

Requirements: 3.0 gpa or above. American Citizenship required. Academic level of applicants: at least 30 credit hours completed at the end of the semester.

Sign-up date: Wed., Oct. 10, 1990

work spring 91

1 schedule - 13 interview openings

Interview date: Thurs., Oct. 25, 1990

MARATHON REFINERY
Robinson, Illinois

Interviewing: Ch.E., M.E.

Requirements: 2.75 gpa or above. American Citizenship or permanent resident visa. Academic level of applicants: at least 30 credit hours completed at the end of the present semester.

Sign-up date: Thurs., Oct. 11, 1990

start work spring, summer, or fall 1991

1 schedule - 13 interview openings

Interview date: Thurs., Oct. 25, 1990

GENERAL ELECTRIC AIRCRAFT
Cincinnati, Ohio

Interviewing: Met.E.

Requirements: 3.0 GPA or above.

Sign-up date: Thurs., Oct. 11, 1990

4 interview openings

Interview date: Tuesday, November 6, 1990

PRC ENVIRONMENTAL MANAGEMENT INC.
Work locations: Kansas City, Kansas,
Chicago, Illinois,
Dallas, Texas

Interviewing: Ch.E., C.E., Geology, Geo.E.

Requirements: 2.5 GPA or above. Academic level of applicants: at least 45 credit hours completed at the end of the present semester.

Sign-up date: Tuesday, Oct. 23, 1990

start work spring 91

1 schedule - 9 interview openings

OMAHA PUBLIC POWER DISTRICT
Omaha, Nebraska

Interviewing: C.E., E.E., M.E., Nuc.

Requirements: 2.5 GPA or above. American Citizenship required. Academic level of applicants: at least 59 credit hours completed at the end of the present semester.

Turn in resumes: Thurs., Oct. 25, 1990

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE TURN IN A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE DATE.

NOTE: The ones that indicate RESUMES ONLY. This means the company will not be on campus interviewing, but they want resumes to review and should contact you if they are interested in employing you.

Please let the Co-op Office know immediately of any acceptance of an offer.

Please check with the Co-op Office periodically to see if additional companies have scheduled interviews. These will be posted on the bulletin board by the Co-op Office and printed in the Miner Newspaper.

STORZ INSTRUMENT CO.
St. Louis, Missouri

Interviewing: C.Sc., E.E., M.E.

Requirements: 2.5 GPA or above.

Turn-in resumes: Monday, Oct. 22, 1990

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE BRING A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE DATE.

IBM CORPORATION CO-OP INTERVIEWS, NOVEMBER, 1990

IBM WILL HOLD AN INFORMAL INFORMATION AND SIGNUP DAY ON WEDNESDAY, NOVEMBER 7, 1990, IN THE CENTENNIAL HALL, UNIVERSITY CENTER-EAST. HOURS WILL BE FROM 12:00 - 5:00 PM. (STOP BY ANYTIME) STUDENTS INTERESTED IN CO-OPING WITH THE IBM CORPORATION ARE INVITED. ACTUAL INTERVIEW DATE WILL BE ON THURSDAY, NOVEMBER 8, 1990.

DISCIPLINES: CO-OP OPPORTUNITIES INCLUDE BUT ARE NOT LIMITED TO SOFTWARE DEVELOPMENT, TECHNICAL MARKETING AND ENGINEERING.

POSITION(S) & LOCATIONS: REPRESENTATIVES FROM VARIOUS U.S. LOCATIONS WILL CONDUCT AN INFORMAL INFORMATION SESSION ON NOV. 7. STUDENTS INTERESTED IN INTERVIEWING WITH IBM SHOULD ATTEND. DETAILED INFORMATION WILL BE PROVIDED AT A LATER DATE.

ALL STUDENTS MUST HAVE A RESUME AND TRANSCRIPT ON FILE AT THE CO-OP OFFICE BEFORE YOU WILL BE CONSIDERED FOR CO-OP EMPLOYMENT.

YOU MUST SUBMIT (4) COPIES OF YOUR CO-OP RESUME FORM TO IBM ON THE INFORMAL INFORMATION AND SIGNUP DAY, NOV. 7.

Note: IBM will consider U.S. Citizens, Permanent Residents or "Intending Citizens" as defined by the 1986 Immigration Reform and Control Act.

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For more complete information, including charges and expenses, call 1 800 842-2733, ext 5509 for a prospectus. Read the prospectus carefully before you invest or send money.