



10 Oct 1990

## The Missouri Miner, October 10, 1990

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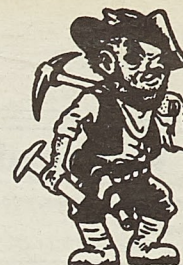
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# Missouri Miner



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

October 10, 1990

Volume 79, Number 8

Twenty-four pages

## UMR attempting to improve declining enrollment

Sheila Conners  
STAFF WRITER

The rumor is that enrollment at UMR is declining for no apparent reason and no one knows what is being done about it. The fact is, enrollment is down from a peak in 1982 with 7,200 students to the current enrollment of 4,850 students.

Chancellor Jischke states two factors why enrollment is decreasing. One reason is that there are fewer high school students graduating in Missouri. From 1982 to 1990, the number of Missouri high school graduates dropped about 25% from 65,000 to 50,000. At the same time, the fraction of college freshman choosing to study engineering, mathematics and other scientific disciplines has decreased. In 1982 around 13% of college freshman chose those courses of study. In the late 80's, it dropped to 8% while now the number is around 10%, another overall 25% decrease.

It is not that UMR is doing poorly compared to other engineering schools, we are actually getting and

more engineering students than other universities. The market has decreased and as Dr. Jischke states, "UMR is getting an increased share of a smaller market."

Why does UMR want to increase enrollment? Beside the obvious fact that we would run more cost efficiently with an enrollment around 5,200 to 5,500 students (an increase of 400 to 600 students), there are several other reasons why the Chancellor would like to see more Miners running on campus. The first reason is that Missouri has a lower rate of college graduates compared to other states. We generally need to increase enrollment here and other Missouri campuses so the state has a better educated work force. Also, on a national scale, the job market is calling for more people with engineering and other technical degrees to keep up with the advancing technological society that we live in.

There are many things that are already being done to help increase enrollment. Strong recruitment efforts such as a larger recruitment staff

working with more programs are an example. The Chancellor feels the quality of education is as high as ever which attracts more female and minority students. The combined number of these students is more than one-third and almost up to 40% of the total student body, whereas 30 to 40 years ago, these types of students were almost non-existent. Programs such as ASSIST run by Dr. Ogrosky, Freshman Engineering classes and the office of Student Affairs work to improve retention, which is often a problem in the engineering disciplines. Dr. Jischke has a consultant come on campus to review the enrollment efforts and to provide new, fresh suggestions. Finally, concentrating on the fact that money can be the deciding factor for high school seniors, the financial aid office has almost doubled its available funds in the last four years.

There are also many new strategies such as adding to the admissions staff,

See Enrollment, page 4

## Missile research may benefit the state economy

News & Publications  
SOURCE

Enhancing the maneuverability of missiles may result in economic benefits close to home, according to Dr. H. Frederick Nelson, professor of aerospace engineering at the University of Missouri-Rolla. Nelson is conducting research on "Supersonic Missile Aerodynamics" for McDonnell Douglas Missiles Systems Co.

"Although it is difficult to predict the economic impact of the research," Nelson says, "the ability to design missiles with increased aerodynamic performance is necessary for McDonnell Douglas, one of Missouri's largest companies, to continue to remain competitive in the aerospace industry."

"The United States Department of Defense is interested in the design and development of small-wingspan missiles because their compact design would ease storage, shipping and aircraft space constraints," Nelson explains. "Small-wingspan missiles also may reduce drag and improve performance."

Because of this, he adds, McDonnell Douglas anticipates the need to develop an aerodynamic data base to use in the preliminary design of small-wingspan missiles.

"We are studying low-aspect ratio wings, or long chord wings with short spans — just the opposite of airplane wings," Nelson explains. "In addition, we will study missile flight at high angles of attack, which is an important factor in increasing maneuverability."

"At present there is not much theoretical data available to use as a basis for designing small-wingspan missiles," Nelson says. "Through our research, we want to provide a larger reference data base that designers can use to develop preliminary designs."

"Specifically, we will develop mathematical equations to predict velocity and pressure fields which will enable the designer to determine the aerodynamic forces and moments acting on the missile during flight," he adds.

See Missiles, page 4

## International News Headlines - the week's events in review

Gary Meyer  
Staff Writer

GERMANY — At the stroke of midnight as the date became October 3, Germany was unified into a single nation. Celebrations resounded throughout the night and into the next day as one million people gathered in Berlin for the joining of the two nations that have followed disparate paths since Germany was carved up after its defeat in World War II. This, the official unification, followed the destruction of barriers that began with the opening of the Brandenburg Gate on November 9 last year and the economic unification on July 1 of this year.

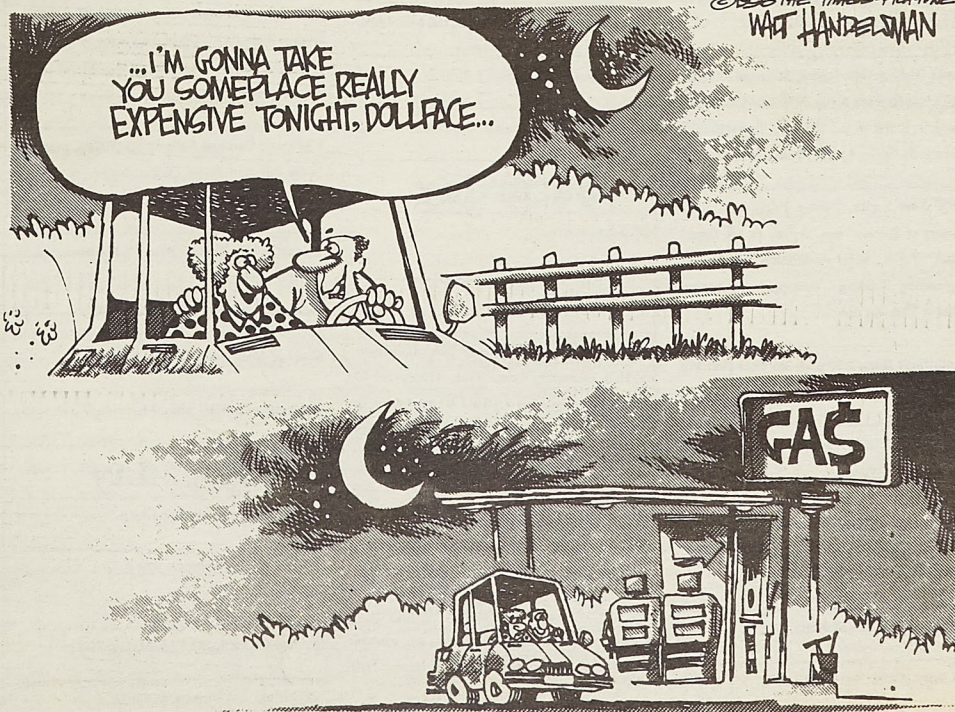
The celebrations, though certainly appropriate, must now heed to the serious task of establishing a common government and restructuring the former East German economy. The all-German parliament elections are scheduled to take place on December 2 at which time East German unemployment could be over 10%. The vastly

superior West German products have overtaken the East German markets and forced many employees of the inefficient state owned factories into the streets.

While internal problems remain, a series of treaties were signed prior to unification to alleviate fears of an expansionist Germany; thereby dictating unified Germany's role in the international arena. Also inherent in this treaty were provisions that required the evacuation of all Soviet troops by 1994, and the forbidding of nuclear weapons in former East Germany.

Germany will be a member of the North Atlantic Treaty Organization (NATO), and the European Community (EC). It will have the largest population of any EC country and the third largest surface area behind France, and Spain. West Germany was the world's second largest net exporter in 1989 and will gain East Germany's net export trade flow with the Soviet Union.

See World, page 4





# Calendar of Events

## Wednesday

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

**Chemical Engineering Graduate Seminar Program**, "Breadth vs. Depth Comparisons: Contrasts for Undergraduate Vs. Graduate Education," Chancellor Martin C. Jischke, 4 p.m., G-3 Schrenk Hall. Free.

**Bible Study**, 12:30 p.m.

**Wesley Mtg.**, 6 p.m.

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

**Blue Key mtg.**, 216 ME, 6:15 p.m.

**HKN EE Help session**, 102 EE, 6:30 p.m.

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

**Sport Parachute/Hand Gliding**, 206 McNutt, 9 p.m.

## Thursday

**Ceramic Engineering Seminar**, "Theory and Design of Multi-Heterolayer Capacitor," Time Stephens, UMR 3:30 p.m., Planje Auditorium, McNutt Hall. Free.

**Civil Engineering Senior Seminar Series**, "Quality in Construction," Don E. Gunther, '60 President, Bechtel Inc., Houston, Texas, 12:30 p.m., Room 114, Civil Engineering Building. Free.

**Mechanical and Aerospace Engineering and Engineering Mechanics Seminar**, "Convection Phenomena in Microgravity — A Crystal Growth Point of View," Dr. N. Ramachandran, NASA-MSFC, Huntsville, Ala., 3:30 p.m., Room 210, Mechanical Engineering Building. Free.

**Physics Colloquium**, "Stark Structure of Very High Lying Rydberg States," Dr. Jake Leventhal, Curator's Professor of Physics, University of Missouri-St. Louis, 4 p.m., Physics 104. Free.

**UMR Film Series**, Double Feature — "The Mystery of Picasso" and "A Day on the Grand Canal," 7 p.m., Miles Auditorium, Mechanical Engineering Building. Admission by season ticket or \$3 at the door.

**Southwinds Mtg.**, 4:30 p.m. 3rd floor Humanities. Everyone welcome.

**UNDERSTANDING YOUR PARTNER**, 210 Norwood, 3:30 p.m.

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

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

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

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

**American Nuclear Soc. Mtg.**, 227 Fulton, 6:30 p.m.

**GDI Mtg.**, 114 CE, 7 p.m.

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

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

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

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

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

## Friday

### HOME COMING

**UMR Homecoming Registration**, 9 a.m. - 4:30 p.m., Miner Lounge, University Center-East. Parade, 8 p.m., leaves from University Center-East. Bonfire and Fireworks Display, Athletic Field.

**Ice Cream Social**, 12:30 p.m., North of University Center West.

**Henry Darcy Distinguished Lecture**, "Hydrogeology and Hazardous waste Disposal," Ralph C. Heath, Duke University, 3:30 p.m., Room 204 McNutt Hall. Free.

**Chemistry Seminar**, "Atomic-Level Architecture of New Materials: Electrodeposited Ceramic Superlattices," Dr. Jay Switzer, UMR, 3:30 p.m., Room G-3, Schrenk Hall. Free.

**Silver & Gold Reunion Buffet Reception**, 5:30 to 8 p.m., Centennial Hall, University Center-East. Tickets are \$15 per person and may be obtained either at registration or 101 Harris Hall through Thursday, Oct. 11. For further information phone 341-4145.

**SUB Movie Series: Heavy Metal**, 104 ME, 7 p.m.

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

**Korean Student Assoc.**, 126 Schrenk, 7 p.m.

## Saturday

### Mid-Semester

### HOME COMING

**All Alumni Breakfast**, 7:30 to 9:30 a.m., Centennial Hall, University Center-East. Tickets are \$3 per person and may be obtained at registration or 101 Harris Hall through Thursday, Oct. 11. For further information phone 341-4145.

**UMR Homecoming Registration**, 8-11:15 a.m., Miner Lounge, University Center East.

**Fieldhouse Feed** for all alumni and friends, 11:30 a.m. to 1:30 p.m., Gale Bullman Multi-Purpose Building. Tickets are \$5 per person and may be obtained at registration for 101 Harris Hall

through Thursday, Oct. 11. For further info. phone 341-4145.

**UMR Football**, Northwest Missouri State University, 1:30 p.m., New Jackling Field. Admission charged.

**UMR Men's Soccer** Lindenwood College, 5 p.m., UMR Soccer complex. Free.

**Alumni Awards Banquet**, 7 to 9 p.m., Centennial Hall, University Center-East. Tickets are \$15 per person and may be obtained at registration or 101 Harris Hall through Thursday, Oct. 11. For further information phone 341-4145.

**KUMR Dinner/Concert Season**, David Lee and the House Rockers. Dinner, 5:30 - 7:30 p.m.; concert 8 p.m., Ferrigno Vineyards and Winery, St. James. Tickets are \$8.50 each for dinner and \$8 each for the concert. Reservations are required: call 265-7742 or (after 6 p.m.) 265-8050.

**SUB Movie Series: Heavy Metal**, 104 ME

**Chinese Student Assoc. Movie Series**, G-3 Schrenk, 7 p.m.

## Sunday

**UMR Women's Soccer**, University of Arkansas-Fayetteville, 1 p.m., UMR Soccer Complex. Free.

**Open Gaming**, Sunrise, 12 p.m.

**Wesley Chapel**, 7 p.m.

**UMR Women's Basketball**, Midnight Madness practice 12:01 am Gale Bullman Multi-Purpose Building

## Monday

**Chemistry Seminar**, "Chiral Mobile Phase Additives in Thin Layer Chromatography (TLC)," Jo Dee Duncan, UMR, 4:40 p.m., Room G-3, Schrenk Hall. Free.

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

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

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

**Independents BOG Mtg.**, Maramec, 7 p.m.

## Tuesday

**StuCo Lawyer**, Walnut, 2:30 p.m.

**CAREER PLANNING**, Part I, 201 Norwood, 3:30 p.m.

**Student Council**, 103 Eng. Mgt., 6:30 p.m.

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

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

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

**Association for Black Students**, 211 McNutt, 8 p.m.

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

## Next Wednesday

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

**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 Mtg.**, G-3 Schrenk, 7 p.m.

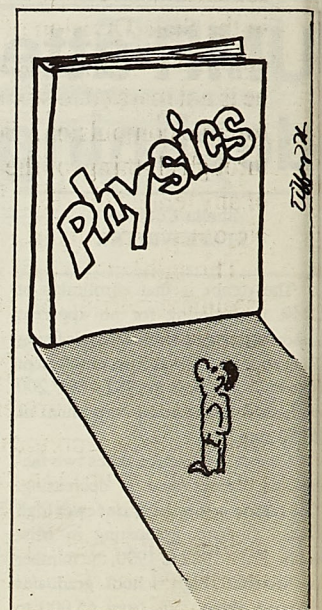
**ASCE Mtg.**, 114 CE, 7 p.m.

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

**SME Mtg.**, McNutt, 7:30 p.m.

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

**Newman Mass**, 9 p.m.



## 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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# Comments

By Larry Williams  
Editor-in-Chief

A student on the UMR campus has been charged with first degree sexual abuse. This is a class D felony and can be punishable by 2-5 years in the State Division of Corrections, and up to a \$5000 fine. A person commits first degree sexual abuse if he subjects another person to whom he is not married to sexual contact without the person's consent by using forcible compulsion. Sexual contact is any touching, either directly or through clothing, of the genitals or anus of any one, as well as the breast of any female for sexual purposes. This is NOT Rape or Sexual Assault. No other incidents have been reported to the UMR police.

Throughout the past week, there have been rumors of rapes or sexual assaults occurring on the UMR campus. These rumors have not been supported by any reports made to the UMR campus police. According to Sergeant Bill Bleckman, "There has never been a rape reported to us on this campus." Furthermore, based on the reports filed, can only go on what has been reported to the University Police and the Rolla Police Department. Given the nature of "sex" crimes, there have been situations—not necessarily at UMR—in which the victim was afraid to report the incident either from embarrassment or by being physically threatened by the alleged attacker. As students and faculty, we can only discourage this through peer pressure and provide peer support throughout the University community. The Missouri Miner hopes to better inform the students

and faculty once reports have been made. The objective of the University of Missouri-Rolla police department is to provide an active crime prevention atmosphere. "A better informed university community will, in turn, lead to a safer university atmosphere" says Sgt. Bill Bleckman. The UMR police department is a highly capable department with many trained policemen and security guards. Many of the policemen are qualified in various crime prevention areas as well as capable speakers. The department sponsors seminars and programs on such topics as CPR, Date Rape and property etching programs.

Lastly, the UMR police department and the Missouri Miner would like to clarify the facts in an incident that occurred earlier this semester. The incident involves the death of Greg Brune, an entering freshman this past August. According to Sgt. Bill Bleckman, UMR police officer Don Reeder, who is a certified CPR instructor, was on the scene within one minute and administered CPR to the student. A Phelps County ambulance was present within 15 minutes. Everything that could have been done was done.

In the future, if you as students or faculty hear any rumors about crime on campus, do not hesitate to call the UMR police to find out if the rumors are correct. The Miner will be publishing a series of articles in the future concerning the occurrence of crime both on campus and in the Rolla community.

Any opinions or information regarding this and future articles would be greatly appreciated.

By Jonathan D. Karl

Free speech is under attack on college campuses, and even its traditionally staunchest defenders have joined in the assault.

Student journalists and free speech advocates are concerned about a proliferation of college speech codes so widespread that, according to Time magazine, "Nowhere is the First Amendment more imperiled than on college campuses." As is often the case with censorship, these codes have been adopted with the best intentions: Campus racism is on the rise and SOMETHING has to be done about it. So token measures are taken with exacerbate racial tensions and ignore the First Amendment.

Speech codes drafted in response to this important issue are dividing the American Civil Liberties Union, which has always tended toward an "absolute" position on free speech. While the Wisconsin and Michigan ACLU affiliates have sued their respective state universities over the codes, the northern and southern California affiliates adopted a resolution in July favoring narrowly drawn policies which prohibit harassing speech.

John Powell, national legal di-

rector of the ACLU, asserts: "My concern is less with the strength of the First Amendment than with the wave of racial harassment that has swept the country. The campus is not under the threat of being silenced."

Defending their resolution, the California affiliates cite the legal need to balance the First Amendment against "conduct that interferes with the Fourteenth Amendment right of students to an equal education." They argue that the resolution only advocates a ban on speech which is clearly harassing and that "hostile, even offensive speech in classroom debates and public discourse is something students must endure or challenge with speech of their own."

Free speech proponents such as writer Nat Hentoff are not buying. Pointing out that cases brought under the codes will be heard by untrained college judicial panels, not civil libertarians or ACLU attorneys, Mr. Hentoff decries the inevitably vague nature of speech codes. "Most colleges whose 'due process' hearing I've covered are unshakably fond of the British Star Chamber model of the 17th century," he remarks sarcastically. "Just the places to deal with these broad and vague restrictions on speech."

Rules which limit speech are only as good as those who enforce

them. Eleanor Holmes Norton, President Carter's chair of the federal Equal Employment Opportunity Commission, explained this bitter reality: "It is technically impossible to write an anti-speech code that cannot be twisted against speech nobody means to bar. It has been tried and tried and tried."

Indeed, speech codes have been defended by voices far less moderate than those of the ACLU's California affiliates. At Stanford University, law professors provided the philosophical rationale for a new student conduct policy that one student sponsor candidly admitted "is not entirely in line with the First Amendment." ABA Journal, the publication of the American Bar Association, quotes Stanford Law professor Mari Matsuda, who argues that traditional views of free speech act as a self-serving cover for continued domination by majority elites.

In Orwellian fashion, advocates of the code argue that speech limitations would actually increase free speech and "vigorous debate." Discriminatory speech, they reason, is meant to silence the victim.

Such arguments are not only clearly opposed to First Amendment principles, they also threaten to undercut the achievement of equal rights. Civil rights activists have always relied on speech as

their principle weapon. In the long run, any compromise of principles of free speech works to the detriment of minorities.

In addition to infringing on free speech, these codes may actually fuel racism. As the recent incident with the music group 2 Live Crew dramatically demonstrates, attempts to censor offensive views makes martyrs out of the censored. Did the censoring of the album "As Nasty as They Wanna Be" silence the misogynist lyrics of 2 Live Crew? Definitely not. It showered the band in publicity, thereby propelling them to the top of the charts.

Alan Keyes, a former assistant secretary of state, points out that the codes themselves arise out of a racist and condescending reasoning. In a debate with the professor who wrote the code adopted by Stanford University this spring, Mr. Keyes argued against the "patronizing paternalistic assumptions" upon which the code is founded. He expressed surprise that "someone would actually think that I will actually sit in a chair and be told that white folks have the moral character to shrug off insults and I do not."

Racism is a problem which must be addressed with more than misguided measures like limiting offensive speech. Not only are such measures open to abuse, they

also drive racism underground where it thrives.

An academic environment characterized by an unfettered pursuit of truth and knowledge should be the ideal forum to expose and defeat the ignorance that fuels racism.

The ACLU's John Powell forcefully argues, "The primary problem is that we haven't begun to seriously discuss racial issues." He is absolutely right. But the speech-restricting policies he seems to advocate will only have a chilling effect on the needed discussion.

(Distributed by the Collegiate Network)



## World

**U.S.-SOVIET** — In a clear signal of reinvigorated U.S.-Soviet relationships and a more conciliatory tone for the Soviet Union, the two countries announced that they had reached agreement in principle on all the major points in a conventional arms treaty. If the treaty is approved it will be the first agreement between the superpowers on reduction of non-nuclear conventional weapons. Among other limitations, it limits both sides to 20,000 tanks in an area between the Atlantic Ocean and the Ural Mountains in the Soviet Union. What this translates to is that the Soviet Union must remove or destroy 40,000 tanks, 51,000 artillery pieces and more than 40,000 armored personnel carriers. Furthermore, the Ural Mountain stipulation restricts Soviet Military activities within their own country. Perhaps the sign of the times was the chuckle by Soviet Foreign Minister Eduard Shevardnadze as he said to reporters, "Of course the Soviet Union made all the concessions."

The new cooperation with the United States and her allies has drastically altered the polarity of the world and given renewed authority to the United Nations Security Council.

**SOVIET UNION** — Last week saw no slowing down in the pace of the Soviet Union in promoting worldwide cooperation and the resolution of military and ideological conflicts no matter how big or small. The Soviet Union established diplomatic relations with South Korea, possibly allowing it to take advantage of the

thriving South Korean economy at a time when the Soviet Union is suffering from severe shortages. Central authorities struck an agreement with Lithuania, the independence minded Baltic republic, to negotiate future contracts between the two entities instead of required compliance with decrees issued by Moscow. In talks in Portugal with the United States, the Soviet Union has indicated its willingness to police a potential cease-fire and elections to end the 15-year civil war in Angola.

However, while extending a friendly hand beyond its borders, the central government is still on unstable ground. Marchers in the Ukraine protested delays in converting to a market economy while their leaders in the Ukrainian Parliament battle about new policies that would sever connections with the Soviet central government. The Russian republic maintains its free-lance conversion to a market economy under the leadership Boris Yeltsin who is bed-ridden after a plane crash last month in Spain. Incidentally, if not significantly, Gary Kasparov, the world chess champion will be defending his title this month under the Russian republic's flag, not the hammer and sickle of the Soviet Union.

In an effort to regain control of his volatile nation, Soviet President Michael Gorbachev invoked his recently granted special powers to maintain a centralized economy for the next 15 months. Three plans for converting the economy to a free market have

been submitted but lie stagnant on the table of an indecisive, seemingly confused parliament.

**UNITED NATIONS** — Leaders from more than 70 nations came together in New York in an extraordinary show of concern for the world's poorest children. They adopted a declaration and a plan of action committing them to dramatically improving the lives of those children.

The declaration of the World Summit for Children pledged the participating nations to work together in an effort to save the lives of at least a third of the 14 million infants who now die each year before the age of 5. The summit leaders also agreed to seek to cut malnutrition among children in half by the year 2,000, reduce the number of women dying in childbirth and provide clean water and primary education for all.

**PERSIAN GULF** — The showdown in the Persian Gulf has become, more so than ever, a war of words and intimidation. Attempts to ascertain intentions by studying the nuances and mannerisms that emanate from various leaders' speeches have replaced troop counting as the day-to-day ritual for predicting the future. Iraqi officials hesitate to speak for fear that their interpretations of a President Bush speech might differ from that of Iraqi president, Saddam Hussein. Whether or not the issue of Palestinian sovereignty is at stake varies from hour to hour, country to country. France has been holding a carrot in front of Saddam, implying that "other issues" in

the middle east may be negotiated if Iraq withdraws from Kuwait. The United States, while carefully backing out of a statement that implied the same, said that no negotiations on anything would be possible until Iraq's unconditional withdrawal.

Saddam, at the site of a prolonged battle with Iran in their eight year war where 10,000 Iraqis died in one siege, told American reporters that "yours is not a country that would be willing to let 10,000 people die in one battle." Meanwhile, the aircraft carrier U.S.S. Independence and escort moved through the Strait of Jormuz into the Persian Gulf on what was said to be a training mission and a display to whom it may concern that the United States is capable of sea-based air attack.

Kuwaiti resistance has reportedly been neutralized. Executions and lootings have essentially eradicated Kuwait of its mechanics of civilization and deprived it of personality. Tales of torture surpass those expected as the Iraqi secret police have reportedly taken over a luxury condominium complex in Kuwait city and converted it into a torture chamber from which it has expelled 230 dead bodies. These bodies had "missing fingers and noses, lacerated ears, and scorched eyeballs." Looting of Kuwait by Iraqi has grown to include large items such as printing presses, power plant generators, and even traffic lights and telephone poles. Iraq has said that it will prefer war to surrender.

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

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## Missiles

from page 1

Nelson is assisted on the project by two UMR graduate students, Brian Est from St. Charles and Brent Bossi from Springfield. They are pursuing master's degrees in aerospace engineering.

The project is funded by McDonnell Douglas and the Missouri Research Assistance Act, which supports research projects at Missouri universities that could have a positive influence on economic development.

## Heath to lecture at UMR

### News & Publications SOURCE

Ralph C. Heath, a consulting hydrogeologist from Raleigh, N.C., will present the 1990 Henry Darcy Distinguished Lecture Friday, Oct. 12, at the University of Missouri-Rolla.

Heath will speak on "Hydrogeology and Hazardous Waste disposal" at 3:30 p.m. in Planje Auditorium, Room 204, McNutt Hall. The public is invited to attend and there is no admission charge.

Topics presented during the lecture will include engineered solutions to waste disposal and the hydrogeologic features, which, if properly considered and used, may help avoid the problems that have resulted from past disposal practices.

"The lecture will be presented at only 22 universities in North America, and it is an honor for UMR and the department of geological and petroleum engineering to be selected as one of the host universities," say Dr. Jeffrey Cawfield, UMR assistant professor of geological engineering.

"We feel this selection reflects positively on the department's commitment to expand its instruction and research in environmental studies related to groundwater and earth engineering," he adds.

Heath worked for the United States Geological Survey Water Resources Division for 34 years and since 1986 has been self-employed as a consulting hydrogeologist. In addition, he is a lecturer at Duke University, where he teaches courses in basic groundwater hydrology.

The Henry Darcy Distinguished Lecture Series is presented by the Association of Ground Water Scientists and Engineers, a division of the National Water Well Association. The lecture series honors Henry Darcy's discovery that established the physical basis which has been used for more than a century to study groundwater hydrology.

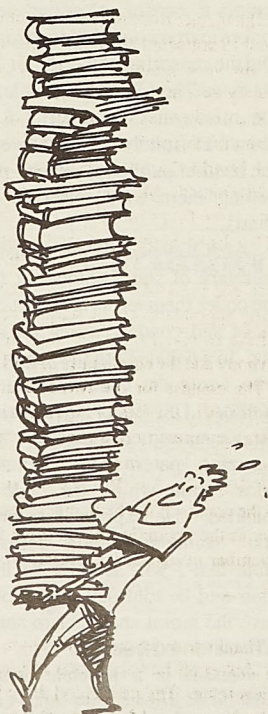
## Enrollment

from page 1

cruitment is stressed. The Chancellor also plans to fund a study of parents, students, and teachers to find out if including a full time recruiter in St. Louis and expanding the number of states outside Missouri in which re-what UMR is offering is what people are looking for in an engineering school. The university is also starting a number of cooperative efforts with students in grades K-12. For example, UMR is currently working with the magnet school in Kansas City to strengthen their programs and encourage the students to take a second look at this campus. Also, Professor Askeland is heading a task force to provide better techniques to the teaching staff. Overall, UMR is taking a number of steps to increase the quality of teaching and learning to make the University of Missouri-Rolla a better institution of higher learning.

If you are wondering what you as a student can do to help the plans of increased enrollment, the Chancellor has a few suggestions. He asks that you let the university know about both the things that you are pleased with and events which you don't care for. Also, carry the message of UMR's reputation home with you to parents, high school teachers and certainly to prospective engineering students. Dr. Jischke states, "The best advertisers for a school are its students and alum-

nae." He asks that we, as a student body, continue the fine work and realize that what we do here reflects on UMR as a whole institution.



## UMR to reorganize power plant operations

### News & Publications SOURCE

University of Missouri-Rolla officials have announced a plan to reorganize and restructure the management and staffing of the campus power plant operation. According to Neil Smith, vice-chancellor for administrative services, the plan was formally announced to current power plant staff at a series of meetings held today on campus.

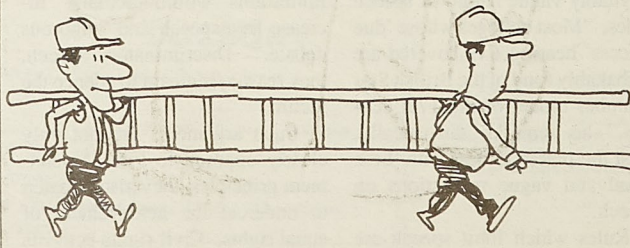
Smith indicates that the changes have been in the planning stages for the past year. He says, "The savings to the University, and ultimately, the taxpayer, will be approximately \$141,000 annually in salaries, wages and benefits. These changes reflect significant improvements in both equipment and operation of the UMR

power plant."

The power plant reorganization will eventually result in the staff being reduced to 75% of the present level—from 24 to 18 persons.

Among changes to be implemented are the establishment of an assistant director of energy management position and reclassification of the superintendent position to supervisor of plant operations. New foreman positions will be created by reclassifying existing lead operator titles. Smith emphasizes that current full-time employees will be encouraged to compete for newly classified positions, and that they could actually benefit from the changes if selected.

Smith says, "The University is responding to a climate which expects its managers to streamline administratively and practice appropriate cost containment measures."





# Features

## Blue Key presents September's Miner of the Month

Blue Key  
SOURCE

As the first full month of the fall semester comes to close, Blue Key wishes to announce the "Blue Key Miner of the Month" for September. Jennifer Zung, a sophomore, was chosen to hold this elite title.

Jennifer Zung is the director of the Leisure and Recreation Committee for the Student Union Board. She was in charge of organizing the SUB Annual Triathlon.

The Triathlon is a well known event that benefits both the campus and the town of Rolla. Participants travel from as far Fort Leonard Wood to participate in the race.

Being the director of the SUB committee responsible for the Triathlon, Zung spent many hours preparing for the big event. She revised the rules form last year to include both teams and individual entries. She visited major sporting goods outlets to get a sponsor for the Triathlon, and many

businesses to collect prizes.

The Triathlon T-shirts, fliers, and the banner, also designed by Zung, exhibit large amounts of car and precision. The fliers were used for extensive publicity all over campus, town, and nearby communities. Local radio station, and newspaper adds were also part of the large scale publicity tactics used by Zung.

Much more work was done by Zung in devising entry forms, choosing a route, obtaining use of the swimming pool, and organizing a crew of 20 people to guide and monitor the event on that day in an organized and orderly fashion.

The local chapter of Blue Key Honor Fraternity wishes to congratulate Jennifer Zung on a great accomplishment, and spectacular job.

If you notice an individual in your fraternity or organization who deserves to be "Miner of the Month," watch for applications each month in your mailbox. The next applications are due by October 24 at 4:00 in the Blue Key mailbox.

## APO describes Aerobathon goals

Alpha Phi Omega  
SOURCE

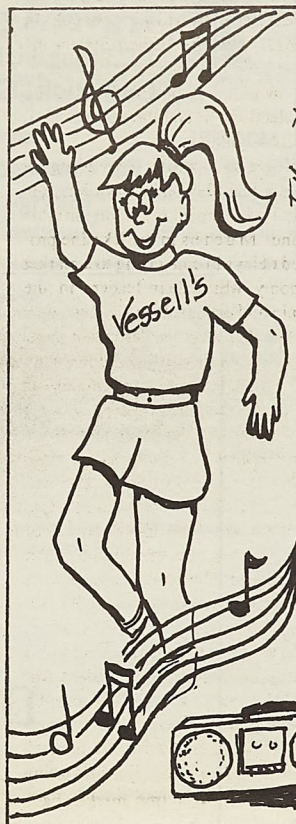
KMNR Interview conducted by Brent Jones about the Aerobathon on Friday Sept. 28. Brent interviewed two pledge class officers, Mark Kelly, the treasurer and Brad Harvey, the secretary.

Brent: Today with us we have Mark Kelly and Brad Harvey from APO. They are going to answer some questions for us. Mark Kelly tells about APO.

Mark: APO is a national service fraternity founded in 1925 whose 3 fold purpose is to develop leadership, promote friendship, and provide service of their school environment. Right now we have over 325 chapters which makes it the largest intercollegiate organization in the country. Some of the things APO does includes hosting and participating in road blocks, blood drives, car washes, book exchanges and we also volunteer at the Gingerbread House. Most of our profits go to charity.

Brent: You have a couple of events coming up one of them is the Aerobathon, tell us about that.

Mark: The Aerobathon will be on Oct. 27 at the Vessell's Fitness com-



plex, from 11 a.m. to 12 p.m. noon. We are collecting donations from local businesses which will go to area 7 Special Olympics.

Brent: Brad, could you tell us about the Special Olympics.

Brad: Special Olympics is an international sports competition for mentally handicapped children and adults. It provides competition at all levels of ability giving every participant a chance to advance to state or national levels. The area 7 competition includes bowling, track & field, basketball, softball and fine arts. About 2,500 participants and 300 volunteers are involved with the project every year. As a result of the positive input of the event the athletes gain some pride which comes over to every part of their lives. The spirit of special olympics is captured in their oath, which, recited before every event love me when, but if I can't let me, be brave in the attempt.

For more information about the Aerobathon contact Carrie Sachs, 364-7001 or the APO pledge class officers Natalie McCune (Chi Omega), Mark Kelly and Brad Harvey (Alpha Epsilon Pi) and Scot Stewart (Kappa Sigma).

## What's up with Student Council? Let them explain

By StuCo  
SOURCE

The two major items of business discussed by Council involved the four Non-Varsity Sports: Rugby, Tae Kwon Do, Waterpolo, and Trap and Skeet.

Bill #9091M1 will require each Non-Varsity sport to have only on-campus bank accounts. This will make it easier for Student Council to determine where allocated funds are being used. The current off-campus accounts cannot be monitored accurately, and this makes it difficult to determine the actual need for Non-Varsity sports money. The two clubs who still have off-campus accounts will have 30 days to transfer the money to a University account. After a short discussion, the bill passed by a large majority.

The other large item of business concerned the allotment of funds to the Non-Varsity sports. Rugby Club's request for \$7,715 was approved; Waterpolo Club was granted their request for \$4,342; Trap and Skeet asked for and received \$3,025; and Tae Kwon Do Club's request for \$2,850 was approved. The total amount was \$17,932. Those organizations that were absent were: Vet's Club and Intramural Association.



By Eric G. Matlock  
STUCO

The blood drive held on September 18 and 19 collected 361 units of blood. We are very grateful for the effort made by everyone who donated.

We would like to thank the following for their support and contributions: APO, Ozarks Coca-Cola Bottling Co., IK, McDonalds, Mr. and Mrs. Charles Remington, Pizza Inn, Pizza Hut, the KMNR Road Show, and the University Food Services. The American Red Cross and the UMR Student Council greatly appreciate all the support that we have received from the UMR student body and the community of Rolla.

The contest for the two \$50 gift certificates to the End of the Rainbow is being continued again this semester. Sigma Nu is way out in front with the most donors so far. But we will still add the results of the September blood drive to the upcoming blood drive in November to decide the overall winner.

Thanks to everyone who donated; you should all be very proud of your achievement. The next blood drive is set for November 14 and 15. Hope to see you there!

## ASUM seeks interested students

ASUM  
SOURCE

Interested in politics? Would you like to represent yourself and all other students at the State Capitol? Meet interesting and influential people? How about a lobbying trip to our nation's capitol? Well, if this captures your attention, then contact the Associated Students of the University of Missouri (ASUM) and pick up an intern application at 212 University Center—West.

As an intern you will earn 6 credits of upper level Political Science while learning about the political system as a lobbyist. As a lobbyist you would work with students from the other University of Missouri campuses on bills that directly affect you as a student. For example last year a bill to help fund the purchase of new laboratory equipment was passed into law.

Applications need to be returned by Friday, November 2nd with interviews taking place the following Wednesday and Thursday. For more information you can call the ASUM office at 341-4970 or Tom Brown at 364-4481.



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10 AM - 4 PM	<b>Business or pleasure!</b>	1-800-876-3331

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& 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.

  
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Wednesday,

**Misce**

Student Organization  
It is time to begin  
for the yearbook, ROLL  
time and place, and co  
or 364-2550 with the  
want your photograph

English Club Book  
October 15th-17th  
hockey puck. Come  
great price.

What kind of band  
The Student Un  
Committee would like  
input. What kind of b  
went suggestions, clo  
majority of y'all want  
suggestions reasonable  
pronto to the SUB off  
more apt we are to ac  
entertain y'all. The f  
more apt we are to ha  
Thanks beaucoup!

ATTENTION PRO  
STUDENTS: Are yo  
interesting program fo  
meeting? Want to sch  
one of your classes th  
Association can help!  
volunteered to return  
various topics. These  
do not charge for thie  
own transportation, m  
NO COST to you for t  
A list of willing al  
topics is available by  
or Lindsay Bagnall in  
Harris Hall, 341-4145.  
help you find just the  
meeting or class!

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campus. Flexible hours  
available. Call now. 1

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or Best offer. Call Paul

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locally, staff of UMR. A  
student groups, departm  
tions are encouraged to p  
info, call Quick-Copy, o  
(EPA Pm.) at 341-5903.  
offer!

The Quadrangle Fo  
RHA (Residence Hall)  
operating a "Tailgate p  
form 11:50 a.m. until gar  
Football Homecoming. T  
event and will include a  
hondogs, etc. Music will  
as well get pumped up fo  
support our football team  
meal of 1 year Marriott r  
can eat tailgate party. W  
hobby, staff, and student  
at the Quadrangle courty

HP-41Cs for sale. With  
on programming the HP  
Call Mike at 364-6658.



# 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.

### English Club Book Sale:

October 15th-17th, 10:00-2:00 daily at the hockey puck. Come and get good books at a great price.

### What kind of band do you want?

The Student Union Board Concerts Committee would like to have the students' input. What kind of band do you want? We want suggestions, clues, insight, on what the majority of y'all want to hear. Please, keep your suggestions reasonable and turn them in el pronto to the SUB office. The more we get, the more apt we are to actually hire a group to entertain y'all. The faster we get them, the more apt we are to have a fall semester concert. Thanks beaucoup!

### 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.

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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!

The Quadrangle Food Committee and RHA (Residence Hall Association) are sponsoring a "Tailgate party" on October 13, from 11:00 a.m. until game time of the UMR Football Homecoming. This is a non-alcoholic event and will include a lunch of hamburgers, hotdogs, etc. Music will be provided. Come join us and get pumped up for Homecoming and support our football team. The cost is \$3 or one meal off your Marriott meal card for an all you can eat tailgate party. We encourage and invite faculty, staff, and students to join in on the fun at the Quadrangle courtyard.

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

Opened Cave, 17 miles west of Rolla. ONYX Mountain Caverns, Natural, Scenic, Historical.

West on I-44, Exit 172 D, West on North Outer Road. Call 762-3341 for more information.

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.

For Sale: Over 500 Compact Discs. \$8.00 each for singles, \$12.00 for doubles. Entire Zeppelin, Aerosmith, Van Halen, Journey, Bon Jovi, Collections. Queen's Greatest Hits. Hundreds of Pop and Rock available. Call for more information at 364-2564.

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:** 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, Interscience 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, and Wesley Foundation.

Free Spring Break Trips: to Cancun and the Bahamas. Organize a small group and you travel free. Call 1-800-344-8360 for more information.

## Personals

Rosen-Hosen,

How was your date with Ron?

Cynic,

Cynicism is cheap. Cutting others down is easy. Either show some originality by defying all the cliches or just shut up.

Not Amused,

Giggles,

Have you pushed any cars lately?

Love in KD,  
S/T.

Chera,

You're an AWESOME roommate! Great job on your Chem Test. Somehow we'll make it through the year.

LICO,  
Lou

KDB,

I hope everything works out.

Insomniac

Skee Wee Soror Colette!

Good luck this week and Saturday in your running for UMR's Homecoming Queen.

Love Your Xi Delta Sorors

Dimples,

Coco Krispy squares are really good. Thanks a lot.

Skeeter

Scott,

Thanks for last week's message!

Me

p.s. Does this mean I have to be nice to you now?.....Nah!

Acuff,

Who's the choo-choo anyway?

Trish,

Yes, cows have wings!

Hey,

Get ready to get out of hand Saturday morning!

Fellow Founders

Mark J.

You are the greatest little brother. Congrats on making second degree. Keep up the good work.

YBS,  
Laura

Shane T.,

You are the best; hang in there, honey!

Laura S.

Congrats to the new Sigma Pi little sister pledges! You ladies are the best!

D.O.E.

Andy,

you know practice makes perfect so keep popping the clutch!

Guess Who?

Sohrabi,

What did the tooth fairy bring you?

Aerial

Whitey,

How's the pond swimming?

Seaweed

Jim V.,

You are the best "older" little brother. Let's party on your birthday!

YBS,  
Laura

Galluzzo,

Thanks for looking after and taking care of me. Let's keep doing th wake-up calls and start doing breakfast. All four of us?

Love,  
Lou

Congratulations Chi Omega on winning Derby Days.

Chancellor Jlschke,

How much of OUR MONEY per hour do you pay those people to blow leaves off the sidewalk????!!!!

Just Wondering

Bruce's Woman (men)

You know who you are. You know what you did. I have only one thing to say

.....QUACK!

The other Triplet

Johnny-O,

Roses are red, Violets are blue. Thanks for the dozen, I love you!

Love Always,  
Lou

UMR,

Thanks to everyone who attended our charitable party the 28th. \$1866.66 (and one food stamp) was raised for the Rolla CP school.

Triangle

Campbell Soup Kid,

Hang in there. Watch out for W.C.S. adn don't get terminated.

Your "boy"?

Tommy,

You're the greatest! I love you.

Triangle,

Slumber party anyone?

Some Chi-O's

Insomniac,

It will work out, and probably for the best. Good-byes always hurt—even if just a little. It was fun while it lasted, thanks. Time heals all wounds.

Ms. Beck

Koinonia,

Let's get involved with the Life Talks. Come and bring your buddies.

Your bro.

Mr. Kentucky,

I guess you think you're a stud now that you are in Theta Tau Omega! Just don't forget all of us "little people"! You, Troy, and I have to party at least one more time before I'm out of here.

—C

Congratulations to the Greeks for a united effort at Homecoming 90!

Hey J,

Who's staying over tonight?

Love,  
L.I.J.J.J

Hey Sweet Babe,

You know I just love you!

All Yours

Dan,

Chug lately ??? I had an awesome time!

Jody

Cheryl (The person who doesn't feel invited), You are cordially invited to attend the Sigma Pi Formal on Friday October 19th.

Sincerely,

Do You want to go? RSVP the dance is next week.

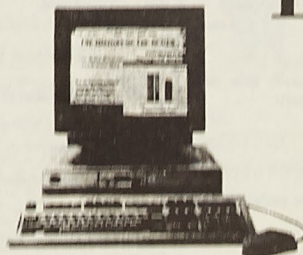
See Classifieds, page 9

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- IBM Proprinter XL24E w/cable (4208 Model 2) **\$679**
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# Students to address alcohol awareness

By Sarah Baker  
RHA and TJHA

The Residence Hall Association (RHA) and the Thomas Jefferson Hall Association (TJHA) in conjunction with the UMR Substance Abuse Prevention Program will be recognizing Alcohol Awareness Week during the week of October 21. The National Collegiate Alcohol Awareness Week (NCAAW) hosts campus events throughout the month of October to help educate faculty, staff, students and local communities about alcohol and its effects.

The Residence Halls, as in years past, will actively participating in "P.E.A.K. WEEK '90." (People Encouraging Alcohol Knowledge). Our programming efforts this year are aimed at promoting responsible drinking, responsible decision making regarding alcohol usage, alcohol free-events, educational opportunities for students, and creating an educational awareness about alcohol in the campus community.

RHA and TJHA wish to extend an invitation to the UMR community to actively participate in "P.E.A.K. WEEK '90." We encourage total campus involvement in all "P.E.A.K. WEEK" activities. Please contact us through our mailboxes in the Student Activities Office.

Listed below are the RHA/TJHA events scheduled for "P.E.A.K. WEEK '90."

Sunday, October 21

Developing a New Attitude and Self Defense 7:00 p.m. TJ South Lounge.

Sunday, October 21

Movie: Clean and Sober with Discussion 8:00 p.m. TJ South Lounge/Rayl Lounge.

Monday, October 22

Punch Bowl - Alcohol Trivia Game 8:00 p.m. TJ South Lounge.

Tuesday, October 23

Casino Night 5:00-7:00 p.m. TJ South Lounge/Rayl Lounge.

Thursday, October 24

Picnic At The Hockey Puck/Live Band 4:30-7:30 p.m. Hockey Puck.

"Finding Out" Alcohol and Campus Life 6:30-7:30 p.m. T.J. South Lounge.

Professional/Ethical Issues Related to Alcohol Usage 8:00 p.m. Rayl Lounge.

## Classifieds

Hey Jen, Jen, Jackie, Janet, and Laura V.,  
You guys are the best roomies!

Love ya,  
Laura

Hey Tag,  
I need a G.N. O. tonight. Let's party.

Team

Janet,  
Duck, there's a car coming!

Love in KD,  
S/T

Schonda & Tina,  
We're the only one's left. Let's make this semester count - you two are great pledge semester!

Love in AOT,  
Nina

Ramwoman,  
Do I qualify as a "Quarter" pro now?  
Until Next Weekend,  
Where was all the Beginner's luck?

Andy,  
Do you know how to pop the clutch now?  
Love in KD,  
S/T

D.Q. Team,  
Drop off your shirts at the Beached whale's place to get your letters put on.

D.Q. #1

Chi O is Cool!

Dan,  
I'm so glad you could come down for Homecoming. Let's make it a great weekend!

Love,

Lanie

Lucinda,  
You look AWESOME!

Keith

Sandy, Jim, & Lew,  
Congrats on the great performances in the Miner Man.

Hacker

Is there anybody out there?  
When I was a child, I caught a fleeting glimpse out of the corner of my eye. I turned to look but it was gone. I cannot put my finger on it now. The child is grown; the dream is gone.  
Is there anybody in there?

Dave,  
Thank you for being there Wednesday! It meant a lot!

Laura

Is there anybody out there?  
Ho do I feel? Definitely not O.K. like I usually fake. No, I feel I am a worthless parody. and a cliché is incapable of altering that opinion.  
Is there anybody in there?

Mary H,  
You're a great KD big sis!

Love YLS,  
Beth

Sig Eps are the best! We are looking forward to a great year!!

Love,  
Your lil' sisters

J, T, and B, (A.K.A. Betty, Barney, & Fred),  
Are we going to get the chance to make our Rolla debut? Flintstones are cool!

C (Wilma)

Mr. All my Sweaters—minus 2,  
Did you get them back yet? If you haven't by now, what do you think your chances of getting them back are?

Be realistic

Hey Stew,  
Congrats on making second degree! You are the best little brother; let's party over homecoming!

YBS,  
Laura

Eric & Jack,  
You were great Derby Days coaches. All your help paid off.

Chi O

Sigma Chi,  
Derby Days week was a blast! Can't wait for next year.

The Chi-O's

J,  
You're reigning queen for just a little while longer!! I'm so glad we were "brought together" (even though some people still get us confused with one another) thank goodness we're both such great listeners.

C.

S.,  
Try not to bring anymore strange men home!

B.

Brian,  
You are still the greatest lil' bro!! Let's party over homecoming.

YBS,  
Laura

Study Buddies f. h. #1 & 2,  
Let's get together over Homecoming and do some serious dancing and partying. Please!  
Foot loose and Fancy free (most of the time)

A.,  
A little bird just wanted to say Hi. It's been a long time since we've seen and talked to each other. Hope you're doing well.

A. Busy Bird

To is anybody in there,  
The counseling center is in 201 Norwood Hall. It sounds like you could use some productive help or someone to listen to you.

Concerned

Jill, Heather, & Cheryl,  
It seems our family has skipped a party member! Does anyone know where Beth is?

TBall

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**Schaefer  
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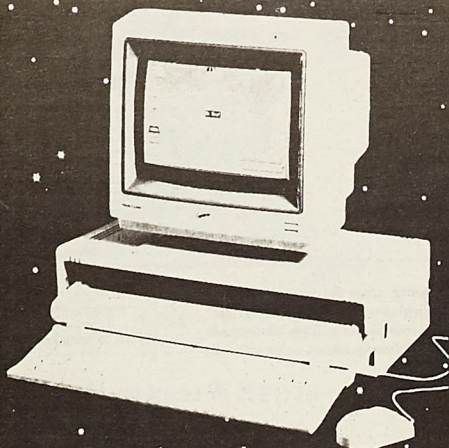
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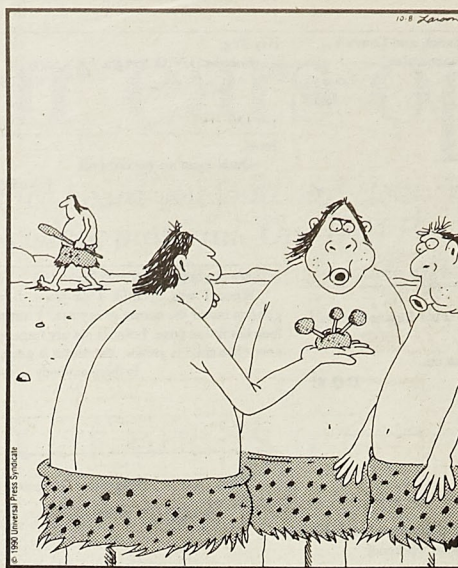
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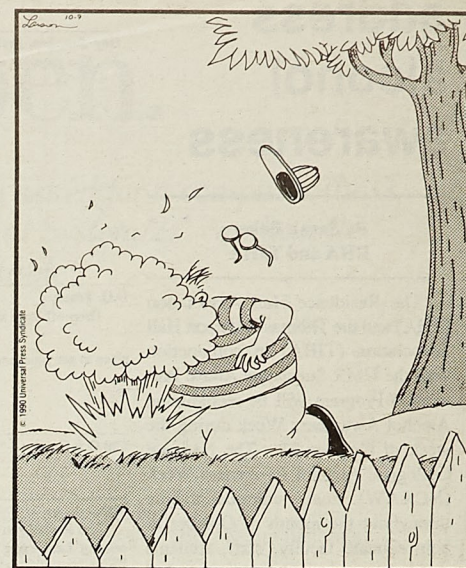
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## THE FAR SIDE

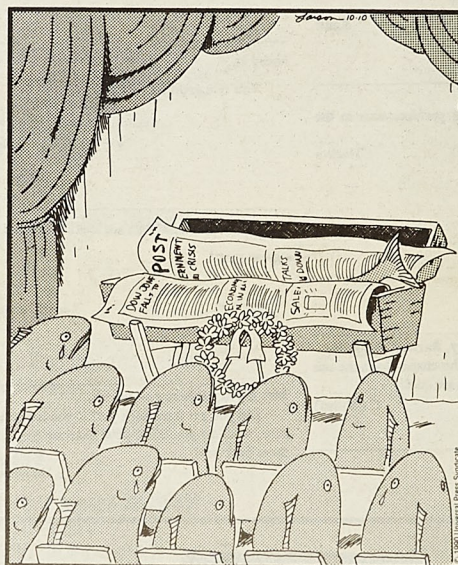
By GARY LARSON



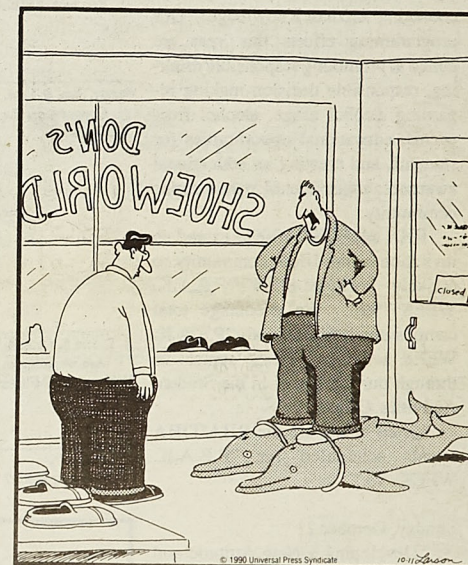
Danook shows off his Swiss Army Rock.



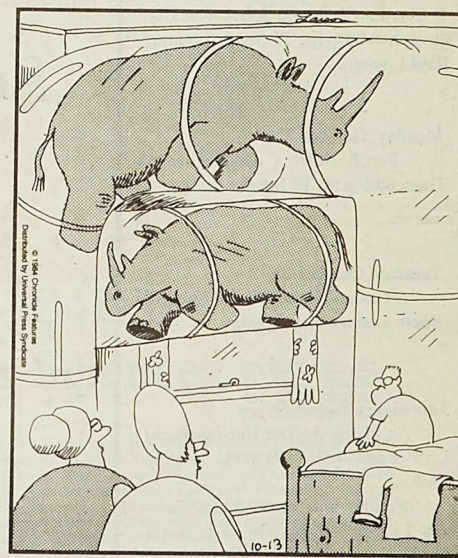
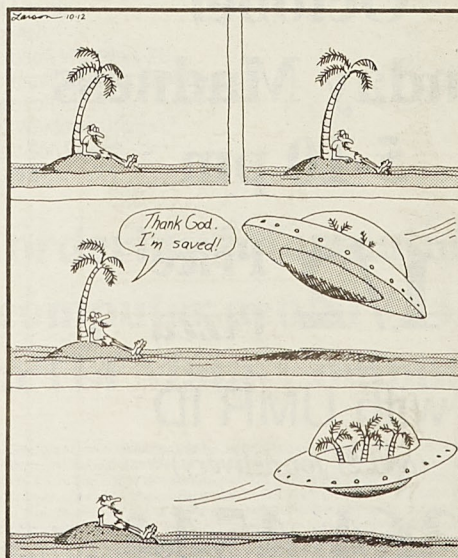
Each time the click beetle righted itself, Kyle would flip it over again — until something went dreadfully wrong.



Fish funerals



"Listen — I bought these here yesterday, and the dang things won't stop squeaking!"



"Dennis, do you mind if Mrs. Carlisle comes in and sees your rhino tube-farm?"





# Mother Goose & Grimm

by Mike Peters

YOU DON'T UNDERSTAND, ATTILA... THE QUEEN VACUUM IS ONLY GESTATING RIGHT NOW.

IN A WEEK THERE WILL BE THOUSANDS OF HUNGRY LITTLE VACUUM LARVA ALL OVER THE FLOOR SPINNING THEIR TINY COCOONS INTO VACUUM BAGS...

AND SOON THEY'LL MUTATE INTO LITTLE DUST BUSTERS, AND EVENTUALLY INTO FULL-SIZE VACUUMS...

I SAW IT ON NATIONAL GEOGRAPHIC.

WHERE DO YOU COME UP WITH THESE THINGS?

GRIMM, YOU'VE GOT TO GET OVER THIS FEAR OF VACUUMS. SEE? THEY'RE PERFECTLY HARMLESS.

I GUESS THESE THINGS TAKE TIME.

GRIMM... WHY ARE WE DOING THIS?

AS LONG AS THERE'S ONE VACUUM LEFT IN THE WORLD, NO DOG WILL BE SAFE.

...HE WENT THAT WAY.

THE ONLY WAY TO STOP A QUEEN VACUUM IS BY FEEDING HER UNTIL SHE POPS.

MUNCH MUNCH

QUICK... THROW EVERYTHING YOU CAN GET YOUR PAWS ON ATTILA... SHOES, SOCKS, RUGS, ANYTHING YOU CAN FIND...

ATTILA? ATTILA?

NICE THROW, HERSHISER.

DON'T WORRY, ATTILA. I'LL GET YOU OUT. THE QUEEN VACUUM IS LIKE A TICK... THEY KEEP EATING UNTIL THEY...

KA-BLOO OY

NATURE ABHORS A VACUUM... AND SO DO DOGS.

WHAT HAVE YOU DONE TO MY VACUUM SWEETIE?

IT'S RUINED! TOTALLY RUINED!

HA, HA. THE WITCH IS DEAD. THE WICKED WICKED WICKED IS...

ONE DOLLAR

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# Homecoming Queen Candidates



Sigma Phi Epsilon proudly announces Lesley Osick as their 1990 Homecoming Queen candidate. Daughter of Mr. Glenn Osick and Ms. Gaye Osick, both residents of Rolla; Lesley is actively involved on campus. She is member of ASME, SAE, and has been a member of SWE for two years. Lesley is also very active in Sigma Phi Epsilon's Friends of the Heart in which she holds the office of Treasurer. Currently a junior, Lesley carries a 3.0 g.p.a. She is well deserving of the 1990 Homecoming Queen title, and Sigma Phi Epsilon would like to wish Lesley good luck.



The men of Pi Kappa Alpha are proud to present Miss Amy Gefferth as their candidate for Homecoming Queen. Amy, the daughter of John S. Gefferth of Wood River, IL., is an active member of Zeta Tau Alpha Sorority and currently holds the position of Assistant Membership Chairman.

She is active on campus as a member of the American Society of Civil Engineers and the Society of Women Engineers, and also serves as a panhellenic delegate. We feel Amy possesses all the qualities of an outstanding Homecoming Queen and wish her the best of luck.



The men of Delta Sigma Phi are proud to present Miss Julie Orr as our Homecoming 1990 Queen candidates. Julie is the daughter of Robert and Paula Orr of St. Charles, MO. Miss Orr has established herself as an academic leader by maintaining a 3.576 g.p.a. as she enters her senior year as an Engineering Management student. She is an active member in the American Society of Engineering Management, as well as spending her free time as an aerobics instructor at Vessel's Health Club. Her hobbies include sports, working out, and dancing.



The gentlemen of Kappa Alpha are proud to present Ms. Kerri Kraft as our Homecoming Queen candidate for 1990. MS. Kraft is a member of Chi Omega sorority and currently represents Chi Omega on the Panhellenic Council. Kerri's interests include volleyball, and other intramural activities. The men of Kappa Alpha would like to thank Kerri for her outstanding service and dedication to the Daughter's of Lee.



Deana is a first year transfer student from Mineral Area College, Flat River, MO. At Mineral Area College she was a member of the varsity volleyball team and received Honorable Mention All Region. She also participated in the Engineering Club for two years and held the position of Secretary of Treasurer. Deana is the daughter of Mr. and Mrs. Jerry Moser of Festus, MO.



The men of Beta Sigma Psi proudly present Miss Stephanie Trickey as our Homecoming Queen candidate. She is the daughter of Jack and Myrna Trickey of Kirkwood, MO. Stephanie is a transfer student from the University of Missouri—St. Louis and is in her junior year in the geological Engineering department here at UMR. Some of her extracurricular activities include The Society of Women Engineers, Association of Engineering Geologists, Volleyball Club, and Intramural Athletics. Stephanie's outstanding charm, beauty, and personality would make her the perfect Homecoming Queen. All of us at Beta Sigma Psi sincerely wish her the best of luck.



Theta Xi presents Miss Jonna Lawyer as a candidate for Homecoming Queen. Jonna is a senior majoring in Civil Engineering and is the daughter of Ken and Joyce Lawyer of Platte City, MO. Jonna excels as a student and leader on the UMR campus as an active member of Chi Omega sorority, American Society of Civil Engineers, and Society of Women Engineers. We wish Jonna the best of Luck and know that she will make an excellent Homecoming Queen candidate.



The brothers of Beta Chi Chapter of the Kappa Sigma Fraternity proudly present Miss Beth Kilwin as our Homecoming Queen candidate. Beth, a sophomore in chemical engineering, is the daughter of Mr. and Mrs. Bob Kilwin of St. Louis, MO. She is an outstanding member of the Zeta Tau Alpha sorority. She is currently the Assistant Treasurer of ZTA and is also an active member of AICHE and the Student Union Board. All of us wish Beth the best in this Homecoming.



Sigma Nu Fraternity is proud to present Miss Lori Stricker for Homecoming Queen 1990. Lori is a senior studying chemical engineering and has been a member of AICHE and Alpha Chi Sigma for three years. She is also a member of Sigma Nu Little Sisters of the White Star, where she has served as president, vice-president, secretary, and intramural manager. Lori is from St. Clair, MO and is the daughter of Ralph and Janet Stricker.



The ladies of Zeta Tau Alpha proudly present Miss Kim Roper as our 1990 Homecoming Queen candidate. Kim, the daughter of Mr. and Mrs. Roger Roper of West Frankfort, IL., is a senior in Chemical Engineering. Kim is very active in her professional society, American Institute of Chemical Engineers, and was secretary of Sigma Phi Epsilon Little Sisters. As Sisterhood Chairman at ZTA, Kim was always thinking of creative ways to keep spirit up in the house and smiles constant through sister-on activities and inspirational poetry.

We feel Kim's poise, personality, charm as well as her involvement on campus would make a true representative of UMR and the ideal choice of the 1990 Homecoming Queen.



We, Thomas Jefferson Hall Association, would like to present Amy Pharr as our 1990 Homecoming Queen candidate. Amy is a senior Engineering Management and plans to graduate in December 1991. She has been involved in many campus organizations and shows great enthusiasm for UMR. Amy is currently president of NRHH, president of Little Sigmas, and Resident Assistant at TJ. TJHA would like to wish Amy and all the queen candidates good luck!



The gentlemen and ladies of UMR's Student Council are most proud to announce the beautiful Miss Ellen Brown as our candidate for Homecoming Queen 1990. In addition to her charm and patience at three hour StucCo meetings, she is a warm and caring individual. She is currently serving the Council as Recorder, and she has previously served as a Representative for two years. Outside of her StucCo involvement, she has committed herself to service and leadership through Angel Flight, RHA, and most recently Christian Campus Fellowship. This year is Ellen's senior year in Engineering Management, a discipline she selected "voluntarily," and we wish her the best of luck as she prepares to tackle the outside world. She is from Webster Groves, MO., and the next time you see Bill and Martha Brown, be sure to tell them they did a fine job!



The men of Sigma Pi are proud to present Miss Karen Niehaus as our Homecoming Queen candidate. Karen is presently a sophomore here at UMR. She is very active in Chi Omega sorority where she has been on the Fraternal Relations and Spirit Committees. She has also been active in the Daughters of the Emerald, having served as Treasurer. Other campus organizations that Karen is currently involved with are the Society of Women Engineers and Alpha Phi Omega service fraternity. We would like to wish Karen the best of luck in the Queen competition.



The sisters of Chi Omega proudly present Miss Victoria Scammacca, daughter of Mr. and Mrs. John J. Scammacca of Lee Summit, MO., as our 1990 Homecoming Queen candidate. Victoria is a senior majoring in a electrical engineering. She is very active on campus and has been involved in many organizations including: Tau Beta Pi, Phi Eta Sigma, Intercollegiate Knights, Kappa Mu Epsilon, SWE, IEEE, and Blue Key. We feel that Victoria's outstanding grade point average, campus involvement and her award winning personality makes her an ideal choice for the honor of presiding as UMR's 1990 Homecoming Queen. Chi Omega wishes Vicky the best of Luck!



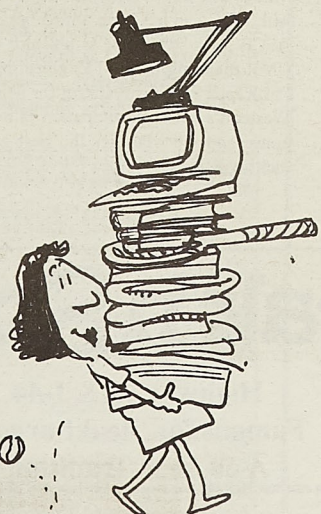
The Ladies of Kappa Delta Sorority are proud to present Clara Maureen Edwards as our Homecoming Candidate. Clara is the daughter of Dr. and Mrs. D. Ray Edwards of Rolla, Missouri. She is a Chemistry section. She has also served as the President of the student chapter of the American Chemical Society and as Alpha Chi Sigma's Vice-president and President. Clara has served her Kappa Delta sisters as past Press and PR Chair, and is currently our Membership Chairman. The sister of Kappa Delta feel Clara is uniquely qualified to be UMR's Homecoming Queen and wish her the best of luck.



Becky left Maplewood, MO to come to Rolla in 1988 and has since been very active and successful in her college career. As a Freshman she joined several campus organizations and became a Little Sister of Alpha Epsilon Pi Fraternity where she remains active today.

Becky is currently a junior in Civil Engineering which she chose due to a deep interest in environmental science. This explains her strong involvement in the Chemistry Department and her current pledging in Alpha Chi Sigma professional chemistry society.

Not to be too bogged down in the professional aspects of UMR, Becky continues her interest in music by being a three year member of the UMR Marching Band and the current Vice President of Tau Beta Sigma Honorary Music Sorority. Such a well-rounded individual with a personality as wonderful as Becky's is sure to be another UMR success story!



Heather C. Freeman is a freshman in the Chemistry Department. She is a member of the varsity soccer team, and she is very active in the Residence Hall Association. Heather plays intramural sports for that organization, and she is on the RHA Special Events Committee. She is also involved with the departmental organizations, the T.W. Schrenk Society. She has lived in West Germany for the past three years, and has traveled extensively.



The men of Tau Kappa Epsilon present Melissa Moore as our Homecoming Queen candidate. She has served the Daughters of Diana as a former Secretary and is currently Historian. She is a sophomore studying Geological Engineering and an active member of Zeta Tau Alpha. Melissa is pledging M Club as a fullback on the Women's Varsity Soccer team and enjoys playing intramurals very much. IKE is proud to have Melissa as a little sister and thinks she would make a wonderful Homecoming Queen.



The INDEPENDENTS of UMR are proud to present Jeanette Sipp as our 1990 Homecoming Queen candidate. Jeanette is the daughter of Robert and Laverne Sipp of Ballwin, MO and is a junior in metallurgical engineering. Jeanette recently transferred from St. Louis Community College where she was Secretary of the Engineers Club, Secretary of the Student Representatives Board; she was also Chairman of the Banquets Committee, Co-chairman of the Leadership Committee, and the recipient of the Outstanding Service award. She was a member of College Republicans and the Economics Club. Jeanette likes to limbo, play tennis and pool, go hiking, and she's fluent in Spanish. Jeanette is active, talented and outspoken. We believe she would be an ideal choice for Queen.



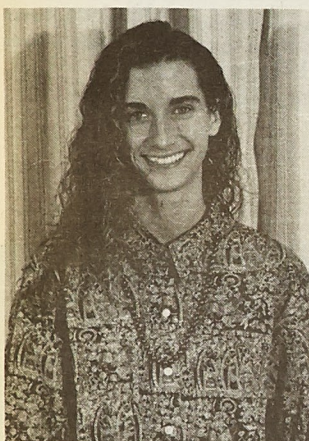
The men of Triangle Fraternity are proud to present Miss Kathleen Ryan as our 1990 Homecoming Queen candidate. Kathy is a senior Electrical Engineering. She is daughter of John and Helene Ryan of St. Louis, MO. Kathy has been active in many campus organizations including UMR varsity track, SUB, IEEE, and Sigma Chi little sisters. We feel Kathy's charming personality and beauty would make her an outstanding Homecoming Queen.



Colette Neal is a Senior in Mechanical Engineering. She is from St. Louis, MO and the oldest of two daughters born to Mack and Jean Neal. Colette attended Lutheran High School North where she was a member of various sports teams and the National Honor Society. Colette continued her athletic career at UMR as a member of UMR's Women's Varsity Basketball team for four years. Colette has also served as Secretary of the National Society of Black Engineers, Vice President and Corresponding Secretary of Alpha Kappa Alpha Sorority, Inc. and Intermural Team Manager of AKA/ABS. Colette's honors include being selected into the Chancellor's Leadership Class, Minority Engineering program, and UMR's Women's Basketball Scholar.

Colette has been selected to represent Alpha Kappa Alpha Sorority in the 1990 Homecoming because she is a hardworking dedicated person. Colette has served Alpha Kappa Alpha unselfishly and possesses the qualities that exemplifies our sisterhood. She is truly deserving of this honor and we wish her the best.

The men of Sigma Chi are proud to present Melissa Mesko as their 1990 Homecoming Queen candidate. Melissa is the daughter of William and Patricia Mesko of Brentwood, MO. Melissa is currently a sophomore majoring in Ceramic Engineering. She is a member of the American Ceramic Society, Little Sigmas, and TJHA, where she is the National Communications Coordinator for 1990-1991. Along with activities at UMR, she also enjoys running, tennis, volleyball, and swimming. Due to her attractive looks and charismatic personality we think she is the best choice for the 1990 Homecoming Queen. Good luck Melissa!



The men of Phi Kappa Theta are pleased to present our candidate for Homecoming Queen, Miss Darleen Westcott. Miss Westcott is always busy with something on campus. She has been active with the Order of the Sun for three years, having held the position of Intermural Chairman. However her participation in intramural doesn't stop there; she represents our house well in the football, basketball volleyball, horseshoes, and softball. Miss Westcott has also been involved with AGC and has been a member of ASCE for a year. She is a senior at UMR majoring in Civil Engineering. Phi Kappa Theta is thankful for Miss Westcott's active participation in our house and we wish her the best off luck!



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# Sports

## Football team loses a tough game to SEMO Squad 17 - 7 lead in the second half

By Tom Brown  
ASST. SPORTS EDITOR

The Miners traveled to Cape Girardeau on Saturday to face the 3-2 Southeast Missouri State Indians. UMR went into the game with an 0-4 record and the nation's longest losing streak. According to Coach Keeton, "a win would be Christmas come early." It came early, but the Indians received the presents as the Miners lost 17-7 lead and made a critical turnover in the closing minutes to give SEMO a 28-17 victory.

The Miners began the game on offense and easily moved the ball against the Indian defense. A strong offensive line consisting of Todd Parks, Dave Christensen, Mark Wojtal, Todd Young and Bill Johnson repeatedly opened holes for the Miner backs. Twice the offense marched towards their endzone and twice they were turned away. A missed attempt of a 40 yard UMR field goal kept the game scoreless until the Indians found the endzone, just three minutes into the second period, 7-0.

On their next possession, the Miners again moved the ball with ease, running to the right behind the blocking of Young and Johnson. Fullback

Rick Henry bulldozed his way across the goal line for the touchdown with 4:44 left in the half. The drive went 75 yards in 16 plays and ground out 7:28 of the clock.

The defense of the Miners again played stellar. Mark Diamond picked off a fourth down pass at the UMR 26 yard line and returned it to SEMO's 32 yard line with under two minutes to play in the half. With nine seconds left, Tom Hassenstab put the ball through the uprights putting the Miners on top, 10-7.

The second half began with the Miner defense on the field. The Indians were effectively moving the ball when they tried to complete a screen pass. Junior Scott Adams pressured the SEMO quarterback allowing Mike Chandler to slip in front of the receiver and get the INT. The 240 pound defensive end rumbled 40 yards for the touchdown. The p.a.t. was good as the Miners widened their lead 17-7.

The Indians ground attack then came alive as they milked the clock and marched down the field for the score, 17-14. The two teams exchanged possessions. Dan Hertzberg, a senior safety, recorded the fourth interception of the game for the Miners. The offense again moved the ball deep into Indian Territory. Facing a fourth

and three the Miners chose to go for it, but fell short—giving SEMO the ball with under seven minutes left in the game.

SEMO marched the ball down field and connected on a 35 yard, picture perfect, pass in the endzone. This put the Indians on top with under four minutes to play, 21-17. Lady Luck once again abandoned the Miner squad as a fumble occurred on the ensuing kickoff return. This sealed the victory for the SEMO Indians as they scored a final touchdown ending the scoring at 28-17.

The Miner offense had 57 rushes for 237 yards, the most this season. Henry tallied 93 yards on the ground, while Carlos Cain rushed for 56 yards. The Miners played a tremendous game. The defense recorded four INT's and sophomore cornerback Don Huff pulled in his third of the season. Head Coach Charlie Finley felt the team just came up short. "We made some long drives that didn't turn into points." Although the Miner squad committed only the one turnover, it was a costly one. The team showed much improvement and heart to bounce back after a tough loss to Illinois State. "I feel good about the progress the team is making. We just need to know how to win," said Finley.

## Men's Soccer has tough trip Return home to prepare for homecoming match

By Jeff Lacavich  
STAFF WRITER

Friday the Miners played Gannon University at Gannon. Gannon is ranked number two in the Division. We lost eight to two on a very wet field, which didn't play to our advantage.

In the first half, Larry Frans scored to start the game. We were up 1-0 until we made a mistake. Our goalie and a defensive player got mixed up and they scored. Gannon ended up scoring two more before half time. Doug Tieber closed the gap with a goal a minute before halftime.

The second half is where the team lost the game. About ten minutes into the half Tom Dammerich was ejected from the game for fighting. Gannon got a penalty shot and scored.

We had to play the rest of the game with only ten players and four starters were out with injury. We moved the ball well and had opportunities, but with only ten players Gannon couldn't lose. We ended up losing the game 8-2.

The team played Mercyhurst University on Saturday. We played much stronger in this game. The game was

played in a 24 mile per hour wind and the field was very dry.

In the first four minutes of the game, Pat Snider scored with the assist going to goalie Bill Faherty on a kick out. We would end the half with a 1-0 lead.

In the second half the wind hurt us tremendously. About 70 minutes into the game, Mercyhurst hit a ball off the post and the wind brought the ball out where they placed it into the net.

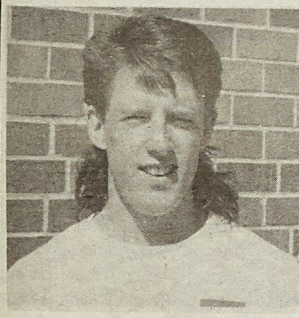
About five minutes later they got a break away. Faherty came out and stopped the ball, but a Mercyhurst player got a foot on it. The ball hit the post with some spin and the wind took over from there to push the ball into the net.

We ended up losing the game 2-1. Both teams we played this week were mostly made up of foreigners. It was good to play against some players from other countries to see how we matched up.

The Miners next games are on the 13th against Lindenwood College here, and the 17th against Southwest, also here. The match against Lindenwood is the Homecoming game at 5:00 p.m. You're support at this match is greatly appreciated. Good Luck Men's Soccer Team!

## M CLUB

### ATHLETE OF THE WEEK



M Club  
SOURCE

M Club's Athlete of the Week is Scott Johnson, senior forward for the UMR soccer team. In the 2-1 win over University of Missouri-Kansas City on September 30, Scott scored one goal and had one assist. For the year Scott has contributed one goal and three assists to the Miners' efforts. This past weekend, the Miners traveled to Pennsylvania and returned home with an overall record of 4-7-1. Congratulations Scott and good luck to the whole team throughout the rest of the 1990 season!

## It's a pajama party!!

The Women's basketball team will conduct their first workout of the year on Sunday night/Monday morning at 12:01. You all are invited. Team will be wearing their pajamas as well.

## UMR Upcoming Home Games

**Football:**  
10/13 vs. NWMS 1:30  
11/3 vs. MO Southern 1:30

**Men's Soccer:**  
10/13 vs. Lindenwood 5:00  
10/17 vs. SMSU 7:30  
10/20 vs. ORU 3:00  
10/26 vs. Westminster 7:00  
10/28 vs. SIU 2:00

**Women's Soccer:**  
10/14 vs. U of A 1:00  
10/25 vs. Will. Woods 7:00

**Swimming:**  
10/27 Intrasquad 1:00  
11/3 vs. Evansville 1:00

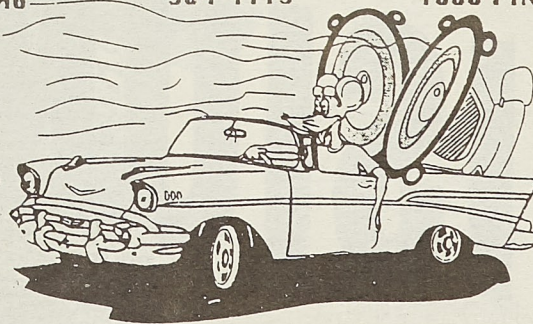
**Rugby:**  
10/13 vs. Alumni 12:00

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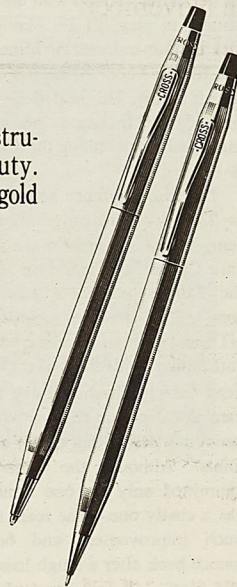
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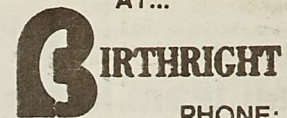


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## Leadership conference to be held

American Diabetes Association  
SOURCE

The Missouri Affiliate of the American Diabetes Association will hold its first annual Youth Leadership Congress for young adults with diabetes on October 12-14 at Camp Wonderland at the Lake of the Ozarks.

The session will consist of leadership skills and youth program development, group dynamics exercise, diabetes education programs, and numerous social events. The weekend will be highlighted by program speakers Tom Smith and Joby Jobson, former National Youth Leadership Spokepersons of the American Diabetes Association. They will present "Confidence Building" and "Developing a Youth Services Program" workshops.

mer National Youth Leadership Spokepersons of the American Diabetes Association. They will present "Confidence Building" and "Developing a Youth Services Program" workshops.

Jobson, a senior at the University of Kansas, is a member of the Missouri Affiliate's Youth Services Committee and was elected National Youth Leadership Spokesperson in 1987. Smith was the American Diabetes Association's first Youth Leadership Spokeperson. Other featured topics include diabetes camp and a research update by internationally recognized diabetes research expert, Julio Santiago, MD, of St. Louis Children's Hospital.

Also, a selected participant from the conference will be elected to represent the Missouri Affiliated at the National Youth Leadership Congress in Washington, D.C. next Spring.

In addition to the special workshops, sporting events, a camp out, a dance, and boat rides will be scheduled.

Camp Wonderland has modern facilities which include air conditioned cabins, an Olympic size swimming pool, frisbee gold course, and scenic lake front property.

Registration forms may be obtained by calling the American Diabetes Association's Ozark Regional Office at (417) 864-5091.

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**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 to attend.**

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# Placement

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

## PERMANENT EMPLOYMENT

FALL WEEKLY DETAIL LIST #8  
Week of November 5-9, 1990

Signup Location: G-3 Buehler Building  
Signup Hours: 7:45 to 11:15 a.m.  
1:00 to 4:15 p.m.

DART CONTAINER  
500 Hogsback  
Mason, MI 48854  
attn: Ms. Sharyn Rohl

NUMBER OF SCHEDULES: 1  
MAJORS: Information is not available  
POSITION:  
LOCATION:

INTERVIEW DATE: November 6, 1990

MARATHON OIL COMPANY  
Domestic Production  
P.O. Box 3128, Rm 2735  
Houston, TX 77253  
attn: Mr. John Feigal

NUMBER OF SCHEDULES: 1: Nov. 5; 1: Nov. 6  
MAJORS: BS/MS ChE, ME, PE  
POSITION: Production & Petroleum Engineering  
& Process & Chemical Engineering (Details will be  
available with interview signups)  
LOCATION: Bridgeport, IL; Cody, WY;  
Lafayette, LA; Midland, TX  
DECEMBER 1990 or MAY, JULY 1991 GRADS  
MUST BE LEGALLY AUTHORIZED TO WORK IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATES: November 5, 6, 1990

MARATHON PIPELINE COMPANY  
P.O. Box F  
Martinsville, IL 62442  
attn: Mr. Jim Rhollans

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CE, EE, ME  
POSITION: Project Engineers involved in all as-  
pects of pipeline & facility construction, upgrading and  
maintenance work, etc. (Details will be posted)  
LOCATION: Martinsville, IL  
DECEMBER 1990 or MAY 1991 GRADS  
2.7 G.P.A. REQUIRED  
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 5, 1990

MARATHON PETROLEUM COMPANY-ILLINOIS REFINERY DIV.  
Regional Office Building, Marathon Avenue  
Robinson, IL 62454  
attn: Ms. Kris Krendl

NUMBER OF SCHEDULES: 1-ME; 1-ChE (BS/MS)  
POSITION: Associate Refining Eng. (Robinson)  
in Technical Services or Engineering Departments  
DECEMBER 1990 or MAY, JULY 1991 GRADS  
2.5 G.P.A. REQUIRED  
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATES: November 5, 6, 7, 1990

FRU-CON CONSTRUCTION CO.  
15933 Clayton Road, P.O. Box 100  
Ballwin, MO 63022-0100  
attn: Mr. James Coleman

NUMBER OF SCHEDULES: 2 ea day, Nov. 5-6  
MAJORS: BS/CE, ME, EngMgt.  
POSITIONS: Field Engineer, Cost Engineer or  
Scheduling Engineer  
LOCATION: St. Louis & Construction Projects  
throughout the U.S.  
DECEMBER 1990 or MAY 1991 GRADS  
2.50 G.P.A. REQUIRED  
U.S. CITIZENSHIP; LEGAL RESIDENT OR AUTH. TO WORK IN U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATES: November 5, 6, 1990

BEKAERT STEEL  
P.O. Box 1407  
Dyersburg, TN 38025-1407  
attn: Mr. Keith Guthrie

NUMBER OF SCHEDULES: 2  
MAJORS: BS/ME, ChE, EE, MetE, or EngMgt.  
POSITION: Management Trainee: one year  
orientation and training program followed by placement  
in a technical engineering, or manufacturing department  
LOCATION: Dyersburg, TN; Rogers, AR; Van  
Buren, AR; Rome, GA; Shelbyville,  
KY; and Muskegon, MI  
DECEMBER 1990 or MAY 1991 GRADS  
2.5 G.P.A. REQUIRED  
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 6, 1990

WOODWARD & CLYDE CONSULTANTS  
4582 S. Ulster Street, Parkway Suite 606  
Denver, CO 80237  
attn: Ms. Dottie Kostyo

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS/PhD in Geoscience with  
emphasis in environment  
POSITION: Staff Geologist (several openings):  
Design & implement site investigations that include  
soil, rock & water sampling for determination of physi-  
cal & chemical properties.  
LOCATION: Primarily in Overland Park, KS;  
offices nationwide  
DECEMBER 1990 or MAY 1991 GRADS  
3.0 G.P.A. PREFERRED  
MUST BE ABLE TO WORK IN THE U.S. ON A PERMANENT BASIS

INTERVIEW SIGNUP DATE: Tuesday, October 23, 1990  
INTERVIEW DATE: November 6, 1990

STUDENTS INTERVIEWING WITH WOODWARD & CLYDE SHOULD  
PROVIDE 2 COPIES OF THEIR RESUME. (BRING TO INTERVIEW)

STAR ENTERPRISE  
P.O. Box 712  
Port Arthur, TX 77641-0712  
attn: Mr. Jay Moser

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ME, ChE, Environmental Eng.  
POSITION: ME: Work on system & equipment  
design projects, etc.  
Environ Eng.: Analyzing air, water  
& hazardous waste/solid waste reg-  
ulations & providing programs  
& facilities to comply with environ-  
mental control requirements, etc.  
ChE: Designing new or redesigning  
existing systems in the refinery  
to increase the plant's efficiency.  
LOCATION: Port Arthur, TX or Convent, LA  
DECEMBER 1990 OR MAY 1991 GRADS  
2.5 G.P.A. REQUIRED  
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 6, 1990

MARTIN MARIETTA ENERGY SYSTEMS, INC.  
Central Staffing Office  
P.O. Box 2002  
Oak Ridge, TN 37831  
attn: Ms. Sandra Lawson

NUMBER OF SCHEDULES: 1  
MAJORS: BS/Engineering (except Agricultural  
& Astronautical), Computer Science, Environmental,  
Chemistry, Health Physics  
POSITION: Varies - positions in R&D, Produc-  
tion, Applied Technology, Mfg., Environment & Health,  
Environmental Restoration & Waste Management  
LOCATION: Oak Ridge, TN; Paducah, KY; &  
Portsmouth, OH  
DECEMBER 1990 or MAY, JULY 1991 GRADS  
3.0 G.P.A. PREFERRED  
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 6, 1990



UNION CARBIDE INDUSTRIAL GASSES, INC.

Linde Division  
39 Old Ridgebury Road  
Danbury, CT 06817-0001  
attn: Ms. Christine Misuraca

NUMBER OF SCHEDULES: 1 ea day, Nov. 7-8  
MAJORS: BS/ChE, ME  
POSITION: Plant Engineer/Sales Representative,  
Engineering Representative/Process Engineer  
LOCATION: Nationwide/Alsip, IL; Kansas City, MO  
MAY 1991 GRADS  
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATES: November 7-8, 1990

STEPAN COMPANY

22 West Frontage Road  
Northfield, IL 60093  
attn: Ms. Heidi Thomas

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ChE  
POSITION: Project/Process Engineers  
LOCATION: Joliet, IL  
DECEMBER 1990 or MAY 1991 GRADS  
U.S. CITIZEN OR MUST HAVE PERMANENT WORKING VISA

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 7, 1990

PRC ENVIRONMENTAL MANAGEMENT, INC.

650 Minnesota Avenue  
Kansas City, KS 66101  
attn: Dr. David H. Homer

NUMBER OF SCHEDULES: 1  
MAJORS: BS/Geological, Chemical, Civil/  
Environmental Engineering, Geology, Biology, Chemistry  
POSITION: Hazardous waste management involves  
all aspects of investigations, inspections, field work,  
risk assessments, and report preparation  
LOCATION: Kansas City, Chicago  
2.25 G.P.A. REQUIRED  
recent grads, DECEMBER 1990 or MAY 1991 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 7, 1990

U.S. DEPT. OF TRANS./F.A.A.

601 E. 12th St. (ACE - 450A)  
Kansas City, KS 64106  
attn: Mr. Jack Holcomb

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE  
POSITION: Electrical/Power Engineer  
LOCATION: Kansas City, MO  
DECEMBER 1990 GRADS  
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 7, 1990

U.S. DEPT. OF TRANS./F.A.A.

601 E. 12th St. (ACE - 450A)  
Kansas City, KS 64106  
attn: Mr. Mark Einhellig

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CE  
POSITION: Civil/Resident Engineer  
LOCATION: Kansas City, MO  
DECEMBER 1990 GRADS  
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 7, 1990

BROWNING & FERRIS INDUSTRIES

P.O. Box 3151  
Houston, TX 77253  
attn: Mr. David Lynn

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CE, Environmental Engineering  
POSITION: Landfill Management Trainees  
LOCATION: Houston, TX  
DECEMBER 1990 or MAY 1991 GRADS  
3.0 G.P.A. REQUIRED  
MUST BE AUTHORIZED TO WORK IN U.S. ON A FULL-TIME BASIS

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 8, 1990

MONSANTO AGRICULTURAL COMPANY

800 N. Lindbergh Blvd.  
St. Louis, MO 63167  
attn: Ms. Marty Finkle

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ChE, EE, ME  
POSITION: Process Engineer or Project Engineer  
LOCATION: Luling, LA; Muscatine, IA; St. Louis  
DECEMBER 1990 or MAY 1991 GRADS  
2.5 G.P.A. REQUIRED  
U.S. CITIZENS AND ALIENS AUTHORIZED TO WORK FULL-TIME IN  
THE U.S.

INTERVIEW SIGNUP DATE: Wednesday, October 24, 1990  
INTERVIEW DATE: November 7, 1990

COLONIAL PIPELINE CO.

3390 Peachtree Rd., NE  
Atlanta, GA 30326  
attn: Mr. C.W. Crider

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ME, CE  
POSITION: BS/ME: Associate Eng. - Design  
additions to pipeline systems; CE: Associate Eng. -  
work with fluid systems.  
LOCATION: Atlanta, GA  
DECEMBER 1990 or MAY 1991 GRADS  
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 7, 1990

U.S. DEPT. OF TRANS./F.A.A.

601 E. 12th St. (ACE-450A)  
Kansas City, MO 64106  
attn: Mr. Gordon Montney

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE (Electronic)  
POSITION: Electronics Installation Field Eng.  
LOCATION: Continuous travel in the 4 states of  
KS, IA, ME, NE  
U.S. CITIZENSHIP REQUIRED TO WORK FOR FEDERAL GOVERNMENT  
DECEMBER 1990 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 7, 1990

UNION CARBIDE CHEMICALS & PLASTICS COMPANY, INC.

Section M4556  
39 Old Ridgebury Rd.  
Danbury, CT 06817  
attn: Ms. Carol Collins

NUMBER OF SCHEDULES: 1  
MAJORS: BS/EE, ChE; BS/Chemistry, ME  
POSITION: Details too lengthy to post  
LOCATION: Various  
DECEMBER 1990 or MAY 1991 GRADS  
2.8 G.P.A. REQUIRED  
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11

INTERVIEW DATE: November 8, 1990

BRING THE FOLLOWING TO THE INTERVIEW:

(1) Copy of transcript; (2) The Union Carbide  
Chemicals brochure & completed questionnaire)  
(Will be put out with interview signups)

KENNECOTT

P.O. Box 11248  
Salt Lake City, UT 84147  
attn: Mr. Roberta Owen

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS Geology, Mining or MetE  
POSITION: Geologists, Mining or Met Engineers  
LOCATION: Utah, Nevada, South Carolina  
recent grads, DECEMBER 1990 GRADS OR MAY, JULY 1991  
GRADS  
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11

INTERVIEW DATE: November 8, 1990

ACME BRICK

P.O. Box 58290  
Tulsa, OK 74158  
attn: Ms. Susan Gwin

NUMBER OF SCHEDULES: 1 ea day, Nov. 7 & 8  
MAJORS: BS/ME or CerE  
POSITION: Details not available  
DECEMBER 1990 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11

INTERVIEW DATES: November 7, 8, 1990

BURLINGTON NORTHERN

176 E. 5th St., P.O. Box 64962  
St. Paul, MN 55164  
attn: Ms. Patricia Mike

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CompSci  
POSITION: Corporate Management Trainee  
LOCATION: St. Paul, MN  
DECEMBER 1990 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11

INTERVIEW DATE: November 9, 1990

-----  
UPDATES: -- ADDITIONS, CANCELLATIONS

MOORE BUSINESS FORMS

3100 N. Husband Road  
Stillwater, OK 74075  
attn: Mr. Ed Montgomery

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ChE  
POSITION: Process Engineer  
LOCATION: Stillwater, OK  
DECEMBER 1990 GRADS  
2.0 G.P.A. REQUIRED  
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11

INTERVIEW DATE: November 2, 1990



FINA OIL CO.  
P.O. Box 2159  
Dallas, TX 75221  
attn: Ms. Paula Green

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS ChE  
POSITION: Entry-level Chemical Engineer  
LOCATION: LaPorte, TX; Carville, LA;  
Big Spring, TX; Port Arthur, TX  
DECEMBER 1990 or MAY, JULY 1991 GRADS  
2.2 G.P.A. REQUIRED  
AUTHORIZATION TO WORK FULL-TIME IN U.S. REQUIRED

INTERVIEW SIGNUP DATE: (Beginning immediately)  
INTERVIEW DATE: October 15, 1990  
FINA APPLICATION FOR EMPLOYMENT MUST BE COMPLETED AND  
BROUGHT TO INTERVIEW.

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Send your resume to:  
FISHER CONTROLS, attn: Bill Earney  
P.O. Box 11  
Marshalltown, IA 50158

CANCELLATIONS: GE AEROSPACE (St. Louis schedule)  
(Interviewing Oct. 25-26)  
WHIRLPOOL - Nov. 6  
PANHANDLE EASTERN - Nov. 8  
ILLINOIS BELL - Nov. 6-7

## Informational Meetings

### PLACEMENT OFFICE REVISED RECRUITMENT INFORMATIONAL MEETINGS 10/04/90 thru 11/01/90

October 14	Boeing	204 McNutt Hall	7:00 pm
October 15	U. S. Dept of Energy Conoco, C&TSD(Comput) Conoco, S&T&E Div. Conoco, RNE-RNA Div	Maramec Rm-UCE Mark Twain Rm-UCE 202B Cent. Hall-UCE 202A Cent. Hall-UCE	7:00 pm 8:00 pm 8:00 pm 7:00 pm
October 16	U.S.Naval Air Systems Conoco, EPNA (Note: Conoco, EPNA is a change from 10-15-90)	Mark Twain Rm-UCE Missouri Rm-UCE	6:00 pm 7:00 pm
October 18	Air Force Luncheon FMC - Wyoming	Missouri Rm-UCE Meramec Room-UCE	11am-1pm 7:00 pm
October 22	Amoco Oil Corp Dow Corning Phillips Petr.	McNutt Hall, Rm 204 206, 210 & 212 Mark Twain Rm-UCE 202B Cent. Hall-UCE	6:00 pm 7:00 pm 7:00 pm 5:00 pm
October 23	Cap Gemini	Mark Twain Rm-UCE	7:00 pm
October 29	Dowell Schlumberger	Mark Twain Rm-UCE	7:00 pm
October 30	Atlas Wireline O'Brien & Gere	Meramec Rm-UCE Civil Engr. Bldg. Room 117	7:00 pm 7:00 pm
October 31	U.S. Marines	Hockey Puck	9 am - 3 pm
November 1	U.S. Marines	Hockey Puck	9 am - 3 pm

## 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

\*\*\*\*\*

NATIONAL SECURITY AGENCY  
Ft. George Meade, Maryland

Interviewing: E.E., C.Sc., Math, Physics

Requirements: 3.0 GPA or above and maintain a 3.0 throughout school.

Turn In Resumes: Thurs., Oct. 11, 1990  
Pick up government form 171 on Oct. 11

Must work a minimum of 12 months prior to graduation

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.

\*\*\*\*\*



OLD BEN COAL COMPANY  
Benton, Illinois

Interviewing: E.E., M.E., Mining

Requirements: 2.25 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. 11, 1990

start work spring or summer 91

RESUMES ONLY. IF YOU WOULD LIKE TO BE CON-  
SIDERED 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.

\*\*\*\*\*

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 CON-  
SIDERED 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.

\*\*\*\*\*

Interview date: Thurs., Oct. 18, 1990

GENERAL MOTORS CPC FAIRFAX  
Kansas City, MO

Interviewing: (4) E.E., (3) Mgmt.  
Plant Engineering

Requirements: 3.0 GPA or above. Sophomores  
or above.

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

7 interview openings

\*\*\*\*\*

Interview date: Thurs., Oct. 18, 1990

GENERAL MOTORS DELCO PRODUCTS KETTERING  
Dayton, Ohio

Interviewing: (2) M.E., (1) E.E.  
Manufacturing Engineering

Requirements: 3.0 GPA or above. Sophomores  
or above.

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

3 interview openings

\*\*\*\*\*

AMERICAN ELECTRIC POWER  
Columbus, Ohio

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

Requirements: 2.8 GPA or above. Must  
have completed at least 2+ years of  
bs degree program after this semester.

Turn-in-resumes: Thursday, Oct. 11, 1990

RESUMES ONLY. IF INTERESTED IN 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.

\*\*\*\*\*

Addition to October co-op list

GENERAL MOTORS PROVING GROUND  
Milford, Michigan

Interviewing: M.E., E.E.

Turn-in resumes: Monday, Oct. 15, 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 period-  
ically 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.

\*\*\*\*\*

## GO MINERS!



# IMO'S

here's Your

# PIZZA

341

8484

HWY. 63 S.  
ROLLA

"ST. LOUIS' FAVORITE PIZZA YEAR AFTER YEAR"

**AFTER 9 SPECIAL**

ANY TWO TOPPINGS

FOR THE PRICE OF ONE

AFTER 9 PM

DINE IN OR CARRY OUT

Delivery Available for  
Lunch or Dinner



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.

\*\*\*\*\*

Interview date: Monday, Oct. 15, 1990

GENERAL MOTORS - AC ROCHESTER  
Flint, Michigan

Interviewing: (2) Ceramic E., (2) E.E.,  
(3) M.E.

Requirements: sophomores or above. 3.0  
gpa or above.

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

1/2 schedule - 6 interview openings

\*\*\*\*\*

Interview date: Thurs., Oct. 18, 1990

GENERAL MOTORS DELCO PRODUCTS HEADQUARTERS  
Dayton, Ohio

Interviewing: (2) M.E., (1) E.E.  
Product Design

Requirements: 3.0 GPA or above. Sophomores  
or above.

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

3 interview openings

\*\*\*\*\*

Interview date: Fri., Oct. 19, 1990

GENERAL MOTORS PACKARD  
Warren, Michigan

Interviewing: (5) M.E., (5) E.E., (4) Mgmt

Requirements: 3.0 GPA or above. Sophomores  
or above

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

14 interview openings

\*\*\*\*\*

#### SPECIAL NOTICE - PRESCREENING

SIGN-UP FOR DEPARTMENT OF THE NAVY, NAVAL WEAPONS  
CENTER, CHINA LAKE, CALIFORNIA

TURN IN RESUMES: Monday, Oct. 22, 1990

WHERE: Co-op Office, 101 Buehler Bldg.

TIMES: 7:45 AM - 11:30 AM - 1:00 PM - 4:00 PM

INTERVIEWING: A declared major in the science and  
engineering fields

REQUIREMENTS: 2.7 GPA or above. Must have sophomore  
or junior standing.

THE ACTUAL INTERVIEW DATE WILL BE TUESDAY, NOVEMBER  
13, 1990

Naval Weapons Center, China Lake, CA has requested  
that we furnish them with resumes for prescreening.  
We will accept as many Co-op resumes as we can collect.  
Just drop off a copy of your Co-op resume on the above  
turn in resume date. After pre-screening, Naval  
Weapons Center will send the Co-op Office a list  
of those students they are interested in interviewing.  
The list should be posted in the UMR Co-op Office  
by Friday, November 2, 1990. Check with the Co-op  
Office no later than Nov. 2.

For those students outside NWC's local commuting area,  
the Professional Recruiting Office will assist in  
locating affordable housing. Successful co-op appli-  
cants will receive assistance with books and tuition  
as well as a co-op job assignment.

#### 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 INTER-  
VIEWING 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.

UMR Homecoming Always  
A Great Event  
Grads & Parents with Fat  
Checkbooks Heaven Sent.

FOOD FOLKS & FUN.



Rolla, Salem, St. Robert, St. James, Sullivan, & Cuba, Mo.



# Summer Employment

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

## SUMMER EMPLOYMENT

WEEKLY DETAIL LIST #8  
Week of November 5-9, 1990

SIGNUP LOCATION: G-3 Buehler Building  
SIGNUP HOURS: 7:45 to 11:30 a.m.  
1:00 to 4:15 p.m.

MARATHON OIL COMPANY, DOMESTIC PRODUCTION  
P.O. Box 3128, Rm 2735  
Houston, TX 77253  
attn: Mr. John Feigal

NUMBER OF SCHEDULES: 1  
MAJORS: Internships for PE, ME, ChE  
(Freshman, Sophomore, Junior, Senior-Grad School;  
College Internships: both field & office assignments)  
STUDENTS SHOULD READ JOB DESCRIPTION THAT WILL BE  
AVAILABLE AT TIME OF INTERVIEW SIGNUPS)  
LOCATION: Bridgeport, IL; Cody, WY; Lafayette,  
LA; Midland, TX  
MUST BE LEGALLY AUTHORIZED TO WORK IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATES: November 5, 6, 1990

MARATHON PETROLEUM COMPANY-IL REFINERY  
Illinois Refining Div.  
Reg. Office Building  
Robinson, IL 62454  
attn: Ms. Kris Krendl

NUMBER OF SCHEDULES: 1  
MAJORS: Internships for Soph & up,  
ME, ChE; Summer internships in Tech. Services,  
Engineering or Maintenance  
LOCATION: Robinson, IL  
PERMANENT RESIDENT VISA REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 7, 1990

KENNECOTT  
P.O. Box 11248  
Salt Lake City, UT 84147  
attn: Ms. Roberta Owen

NUMBER OF SCHEDULES: 1  
MAJORS: Junior year by May 1991 in  
Geology, Mining or MetEng  
POSITIONS: Geologists, Mining & Met Engineers  
LOCATION: Utah, Nevada, South Carolina  
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, October 11  
INTERVIEW DATE: November 8, 1990

You're smart enough to know  
the difference between  
perestroika and glasnost.



And you're still smoking?

U.S. Department of Health & Human Services

## WAFFLE HOUSE.

ALL YOU CAN EAT MENU  
SERVED 2 P.M. TO 9 P.M.  
SEVEN DAYS A WEEK

**\$4.49**

CHOOSE FROM ANY OF THE FOLLOWING  
(ONE ENTRE AT A TIME PLEASE)

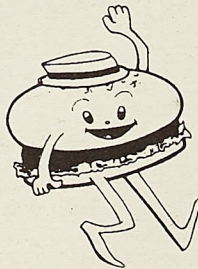
Waffle	1/4 lb. Hamburger
Eggs	1/4 lb. Cheeseburger
Bacon	Bacon 1/4 lb. Cheeseburger
Sausage	Bacon, Lettuce & Tomato
Grits	Bacon & Egg Sandwich
Hashbrowns	Grilled Cheese Sandwich
Egg Sandwich	Sausage & Egg Sandwich
Plain Omelet	Tossed Salad
Cheese Omelet	Vegetable Beef Soup
Scuttlebutt	Toast

No other promotions or discounts with this menu.  
Available only at this location.  
Drinks not included - No substitutions.  
No carry out orders allowed with this menu.



**PERSONAL RESOURCE DEVELOPMENT**Sponsored by Counseling & Career Development  
A Division of Student Affairs**MAKING THOSE "MAJOR" DECISIONS**Tuesday, November 6 3:00-4:30 pm; Location to be announced  
Facilitator: Dr. Carl Burns

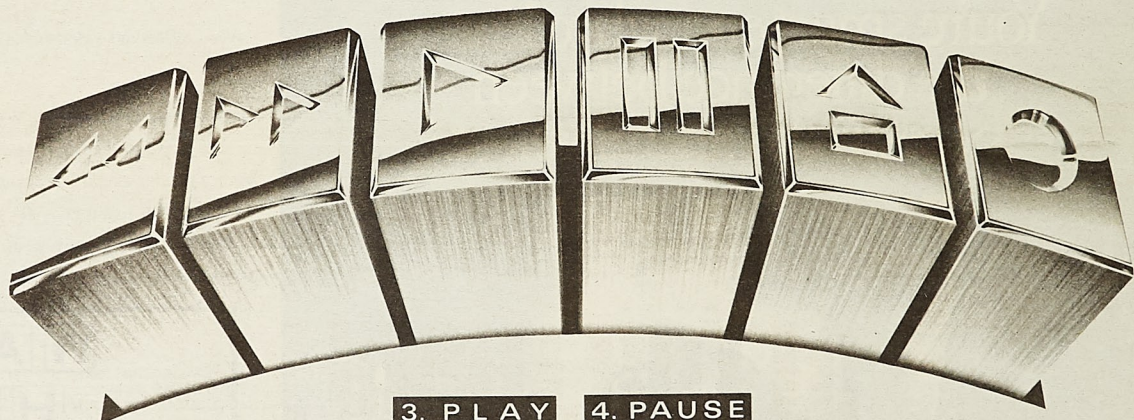
Are you confused about what to major in, or what type of career to pursue? Too many choices and not enough information? You may find that discovering more about your interests and preferences helps in establishing a direction. Preregistration and completion of the Strong-Campbell Interest Inventory (SCII) and the Myers-Briggs Type Inventory (MBTI) are necessary at least a week in advance. Stop by Counseling & Career Development, 204 Norwood Hall, to sign up. Enrollment is limited!

**DOBBLES****1804 N. BISHOP  
IN ROLLA****Double Drive-Thru Restaurant****1/4 LB. CHEESEBURGER  
LARGE FRENCH FRIES  
& 32 OZ. SOFTDRINK****\$2.99**

Not valid with any other offer. Limit Two per coupon. Expires 11/1/90.

**Sunday  
Night  
Special****Stockade Burger,  
Fries & Drink****\$2.99**Every Sunday from  
5:00 p.m. to close.  
Includes FREE dessert.**1401 Martin Springs Dr.  
Rolla, MO 65401****SIRLOIN  
STOCKADE**

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**IF YOU WANT TO PLAY  
DAT MUSIC YOU GOTTA PUSH  
THE RIGHT BUTTONS.****1. REWIND**

to just a few years ago. Manufacturers of digital audio tape (DAT) recorders and the recording industry are at loggerheads over this new technology. DAT's sound is sensational and its cassette format is convenient, but the recording industry is concerned over DAT's ability to make superior copies.

**2. FAST  
FORWARD**

A compromise! The electronics manufacturers and the record companies have agreed to draft a law setting a new standard for DATs. The DAT Bill **will** allow direct digital taping from CDs, but not digital copies of the copies.

**3. PLAY**

The Digital Audio Tape Act of 1990, H.R. 4096/S. 2356—companion bills introduced in the U.S. Congress.

**4. PAUSE**

A glitch! Some music publishers and the Songwriters Guild break with the record companies and oppose the DAT Bill unless consumers are forced to pay a **royalty tax** on blank tape and recorders.

**5. EJECT**

this illogical, negative noise! We've heard this song before. The same wolf-crying about new technology that's been around since the introduction of audio cassettes and video recorders.

**6. RECORD**

your support for the DAT Bill. Congress will pass the DAT Bill—**without any royalty tax**—only if it hears from you. Send us this coupon TODAY.

RECORD my support for the DAT bill and **against any royalty tax on blank tape or recorders.**

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_  
State \_\_\_\_\_ Zip \_\_\_\_\_  
Area Code \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Mail to: HARC, Box 33705,  
1145 19th St., NW,  
Washington, DC 20033.  
For faster action, call  
us! 1-800-282-TAPE.

**THE DAT BILL.  
NOW'S THE TIME.**

**Home Recording Rights Coalition** A coalition of consumers, retailers and manufacturers of recording products dedicated to preserving your right to use these products free of private taxes or government interference.

**5¢  
Copies.****The One of a Kind Copy  
Sale.****Must Present Student ID. For This Price**

Black and white, 8 1/2 x 11, copies on 20# bond, for only 5¢ each. Need we say less?

Quality copies, with fast, expert assistance.

Binding, collating and other finishing services available.

Brilliant color papers available.

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Retail Store Hours:

Monday-Friday 8:00-5:30;

Saturday 9:00-4:00

Printing & Commercial Monday-Friday  
8:00-4:30