



13 Sep 1984

## The Missouri Miner, September 13, 1984

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# MISSOURI MINER

For the students of UMR

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Thursday, September 13, 1984

Volume 73, Number 4

Twenty Pages

## Engineering Supplemental Fee to increase again in Fall 1985

by Cameron Coursey

Fee increases have become a way of life for the UMR student, and the 1985-86 academic year will be no exception. Besides a 7.5 percent inflationary fee increase awaiting approval at the September Board of Curators meeting, UMR is asking for a large increase in the engineering supplemental fee to decrease the campus' budget deficit.

The engineering supplemental

that the supplemental fee increase "will help maintain the current level of quality and will support efforts to resolve equipment and compensation needs and reduce student-to-faculty ratios."

An opposing view seems to be held by former curator Rex Z. Smith, who commented on the fact that both University of Missouri-Columbia and University of Missouri-Kansas City supplemental fees will only increase from \$11 to \$12 per credit hour in 1985-86. In a

not seem fair."

The engineering supplemental fee was adopted by the UM Board of Curators in December, 1982 on recommendations from engineering professionals and alumni groups. The Rolla campus proposed a fee of \$43 per credit hour for 1983/84, while the UMC/UMR Engineering Education Joint Council suggested a fee of \$81 for the same year.

However, then-UM president James C. Olson decided on a \$10 fee for 1983/84, and the fee was increased to \$11 for the present academic year.

So once again student fees will be rising. However, Marchello calls the 1985-86 supplemental increase "an interim step" until a good study of the fee structure can be completed.

Ironically, the \$20 fee will still not cover UMR's budget deficit. A fee of \$27 would balance income and expenditures, according to the administration, but such an increase would not sit well with students, and will not be implemented in the 1985-86 academic year.

### Engineering Supplemental Fee

	1982	1983	1984	1985*
UMR	\$10	\$10	\$11	\$20
UMC	\$10	\$10	\$11	\$12
UMKC	\$10	\$10	\$11	\$12

\*Still to be approved.

fee, now at \$11 per credit hour, would be increased to \$20 for the 1985-86 academic year. In a memorandum to the Budget Review Committee, UMR chancellor Joseph M. Marchello explained

**Faculty rejects student vote proposal**

letter to the Board of Curators. Smith said that the supplemental fee increase at UMR "seems to penalize the students who attend UMR and to reward those who attend UMC and UMKC. It does

## Students can't vote on Academic Council

by Kenneth Shelton

The May meeting of the UMR faculty voted down a proposal that would have given voting rights to students on the UMR Academic Council. What effect will this have on the students of UMR?

Kevin Renfro, president of the Student Council, thinks this will have harmful effects on student/

administration relationships.

Says Renfro, "The academic Council is like Congress in comparison." The function of the Council is to regulate student organizations, affairs, and conduct.

The Council also votes on legislation concerning student activities such as intervisitation in the dorms, parking rules, and

minimum grade requirements to enter UMR.

On the Council are seven student representatives, three from the Student Council and four at large. These seven reps are allowed to serve on committees and submit resolutions for voting, but they cannot vote on legislation before the Council.

Because of the lack of voting

power, many of the reps become apathetic to the job. They begin to feel worthless and powerless. "It's a motivation problem," says Renfro.

The voting on the proposal went 68 in favor, 75 against, and two left blank. However, only 145 of the 359 members of the faculty were present and voting.

The reason for the low percentage voting was that the voting took place during and after finals last semester, says Renfro. He believes that many of the faculty had left or were too busy to vote.

There seems to be three main opinions on why the voting faculty turned down the proposal. One idea is that the faculty believes the Council is for faculty members only and should have no student representatives.

A second idea is that the students might get a feeling of power and disrupt the work of the Council.

The third opinion is that the number of student votes would be

see Student Vote page 3

## Sidewalk reconstruction falls behind schedule at the library

by Mark Privett

Construction has been going on in front of the library since the

semester began. When the plans for the work were first considered, the goal was to have it finished by

mid-August. The work has been delayed by the complexity of design and uncertainty of funding.

The 90-day project, which involves removal and replacement of bricks, expansion of the cement pads, and building of new ramps, is under the direction of the Universities of Missouri Central Administration. It is only a fraction of what the University has planned for this campus.

When asked if he felt this was becoming a habit (construction seems to be constantly in the way of making it to class), Neil Smith, vice-chancellor for administrative affairs, said that it was due mostly to late funding dates.

Funds for this project were not allocated until January, 1984. To have finished the project in time for school to start, funds should have come through by November, 1983, according to Smith.



**Is there no end? Let us free.** It was hoped that work in front of the library would be done by mid-August. Shown here are Wayne Heubner, Paul Angel, Amy Applebute Heubner, and Jeff Phillips trying to cope with the barricades.

## Auxiliary Services annexes Student Union Board

by Art Smith

The Student Union Board, formerly under the Dean of Students Office, found a new home in July when it was transferred to Auxiliary Services. Interviewed sources stated the change was purely an administrative one, but that changes will occur.

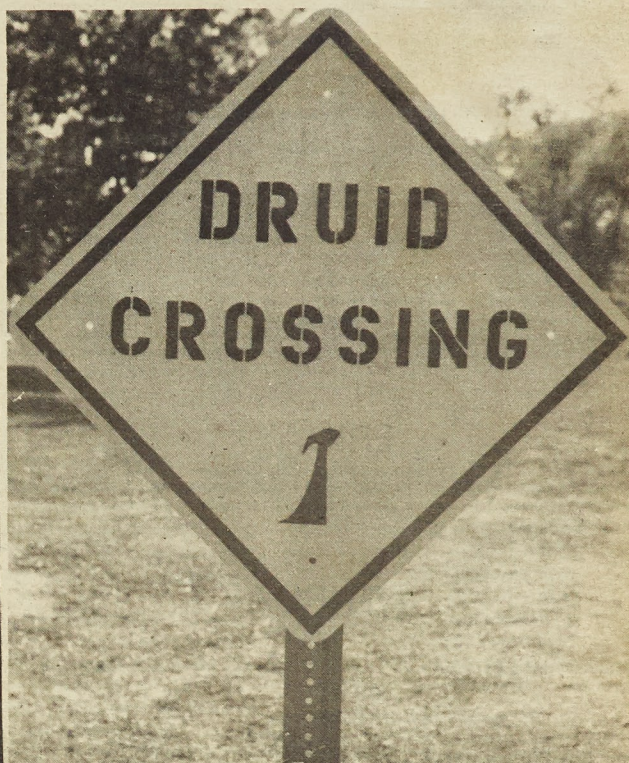
According to Jess Zink, director of Auxiliary Services (A.S.), the change was a "natural merger" that brought SUB into harmony with the services, programming and facilities areas that A.S. is presently responsible for. Zink stated that the resources and connections flow more easily through A.S. and that the change was simply "putting it (SUB) back

in its proper perspective." He asserted that this more effective utilization of resources will reduce duplication, increase administrative support, and consequently increase and improve programming.

Zink and the others interviewed stressed that the student activities fees that go to SUB will stay in programming. In fact, the change has already reduced SUB's administrative overhead by making A.S. responsible for the salaries of SUB's two staff members, the Program Coordinator and the secretary. It was also stressed that students (SUB) will

see Auxiliary services

page 2



Behold the Druid Crossing at Stonehenge! (There really is one.) Behold also what the Druids say on page 14.



# CALENDAR OF EVENTS

## THURSDAY

### UMR College Republicans

Tonight, Sept. 13 the CRs will hold a meeting in the H-SS building in G-5 at 7:00 p.m. All interested persons are invited. The State Chairman for the College Republican will be the featured speaker.

For more info, call Chuck Martin 364-5339, Ralph Flori 314-4767

Thursday, September 13

### UMR Film Series: "The Draughtsman's Contract"

Miles Auditorium, Mechanical Engineering Building, 7:30 p.m. Season ticket or \$3 at the door. To reserve a season ticket, phone 314-341-4131.

### Student Union Board Art Exhibit

September 13-October 4—"Thomas Hardy's England," University Center-West lobby, 8 a.m.-4:30 p.m. Free.

### Chi Alpha Christian Fellowship

We, the members of Chi Alpha Christian Fellowship, invite you to join us in a time of worship of our Lord Jesus Christ and a time of fellowship with some of His believers here on campus. We would like to introduce you to our wonderful savior. We meet every Thursday evening at 7 p.m. in the Ozark Room, University Center-West (upstairs). We look forward to seeing you there.

## FRIDAY

### Association of Engineering Geologists

Come and have fun at the Fall '84 AEG Outing Friday, Sept. 14, 1:00 p.m. —? Lion's Club, Pavilion #3. Barbecue, refreshments, games!!! Free for AEG members. We will be taking memberships (\$4.00/sem.). Come!

## SATURDAY

### Sports Car Club

Road Rally Saturday, September 15, at 11 a.m. at Lions Club Park. For more information, call Dave Parker at 364-6418. Everyone is welcome.

### ASEM-III

The American Society for Engineering Management-Institute of Industrial Engineers will be sponsoring a picnic Sat. Sept. 15, 3:30 p.m. (after football game). Student-faculty softball game. Free refreshments. Everyone is welcome.

## TUESDAY

### MSPE

Walter Johnson, director of the Missouri Division of Design and Construction, will speak on the division and its programs at a dinner meeting of the Rolla Chapter of the Missouri Society of Professional Engineers at 6:30 p.m. Tuesday, Sept. 18, at the Lions Den.

Dinner will be preceded by a social hour at 6 p.m. Tickets are \$8 per person and reservations should be made by Sept. 13 by calling 341-4476. Members' spouses and guests are welcome to attend.

## Missouri Miner

The *Missouri Miner* is the official publication of the students of the University of Missouri at Rolla. It is published weekly at Rolla, Missouri. The *Missouri Miner* features activities of the students and faculty of UMR.

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Subscriptions are available to the general readership at a rate of \$7.00 per semester. Articles and photos for publication in the *Miner* must be in by 8 p.m. on the Sunday before distribution on Thursday.

### THE MISSOURI MINER

303 Rolla Building  
University of Missouri-Rolla  
Rolla, MO 65401  
(314) 341-4312

### Sigma Gamma Epsilon

Sigma Gamma Epsilon, the Earth Science Honorary, will meet Tuesday at 7:00 in 305 Norwood. Important business will be discussed.

### Tau Beta Pi Smoker

A smoker for prospective initiates will be held on Tuesday, September 18 at 7 p.m. in G-3 Chemistry. If you did not receive an invitation and feel you meet Tau Beta Pi's requirements, please contact Raymond Williams at 364-6368 or John Jabush at 364-0883

## WEDNESDAY

### Alpha Chi Sigma

Alpha Chi Sigma will be having a meeting on Wednesday, September 19, at 7:00 p.m. in G-3. All members (including faculty) are encouraged to attend.

## THURSDAY

Thursday, September 20

### Resume Writing Seminar

Thursday, September 20, 1984, Mechanical Engineering Auditorium, 3:30-5:00 p.m. The purpose of this seminar is to aid participants in developing effective resume writing skills. Styles of resumes will be discussed and participants will learn how to express their personal, educational and professional qualities in a positive manner.

### UMR Film Series: "The Dresser"

Miles Auditorium, Mechanical Engineering Building, 7:30 p.m. Season ticket or \$3 at the door. To reserve a season ticket, phone 314-341-4131.

## NODAY

### NEWMAN CENTER-UMR MASS SCHEDULE

Saturday	6:30 p.m.	St. Patrick's Church*
Sunday	10:00 a.m.	St. Patrick's Hall
Sunday	5:00 p.m.	St. Patrick's Church*
Wednesday	9:00 p.m.	Newman Center
M, T, Th, F		As scheduled in bulletin, St. Joseph Hall, Newman Center

\*Mass scheduled when UMR is in session during the Fall/Spring Semesters.

Parish Schedule: Saturday, 5:00 p.m.; Sunday, 8:00, 10:00 & 11:30 a.m. (available room at the 8:00 Mass only).

Reconciliation: Saturday, 3:30 p.m.-4:30 p.m., Church; By appointment.

The schedule for each week is also available by calling the Newman Center at 364-2133.

## Auxiliary services from page 1

continue to program for students. The decision-making authority will remain with the members of SUB.

John Watson, SUB Program Coordinator, was very optimistic about the changes. "There will not be a drastic change," he stated. However, he added that SUB has already benefitted from the change with the establishment of a simplified accounting system, the use of A.S. purchasing personnel (less expensive), a direct (indirect in the past) link to other University Center resources, and access to University vehicles (no longer costs).

Watson admitted that his authority has increased with the change, but maintained that this will only serve to expedite the bureaucratic process since there will now be less channels to go through. He observed that his role is that of "mentor and custodian," not that of one dictating University policy to SUB.

Chancellor Joseph Marchello, who made the decision to transfer the SUB, maintained that the decision was based essentially on economics. Marchello stated that the retirement of Burna Harvey as program coordinator opened up an opportunity to economize and to eliminate a position. It also provided an opportunity to give a younger person (John Watson) a chance for more responsibility and development.

Marchello added that there was

no displeasure with SUB's past performance and that there is "nothing cast in stone" about the present decision, although he is optimistic about the change. As far as the students are concerned, SUB's functions won't change. He noted that it was an administrative transformation only.

As far as most of the present members of SUB are concerned, the change will work out for the better. Dan Morris, director of publicity, admitted having initial misgivings, but now feels that they are getting a lot of support and things will probably improve.

see SUB page 9

**SUB PRESENTS**  
Thomas Hardy's  
England  
Watercolor  
Landscapes  
by  
Fredric Whitehead  
Sept. 13-Oct 4  
Mon-Fri  
8:00-4:30  
FREE

## Haslam new AFROTC chairman

Rolla, Mo. —Maj. Donald E. Haslam has been appointed professor and chairman of aerospace studies (Air Force ROTC) at the University of Missouri-Rolla.

"I am looking forward to assuming my new responsibilities at UMR and working with the friendly people in the Rolla area," said Haslam. "My main objective while at UMR will be commissioning top-quality Air Force officers."

"With the fine students attending UMR, I expect its Air Force ROTC program to continue to grow," he added.

Haslam holds a B.S. degree in industrial management from the University of Arizona and an M.S. degree in logistics management from the Air Force Institute of Technology.

He joined the Air Force in 1956 and has served in Europe, Vietnam and the United States. He was squadron commander of the 9th Organizational Maintenance Squadron at Beale Air Force Base, Ca., before coming to UMR.

He holds numerous military awards and decorations, including the Bronze Star, Meritorious Service Medal, Air Force Commendation Medal and Presidential/Distinguished Unit Citation.

### The Draughtsman's Contract

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### UMR Film Series

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## new CPU makes computer twice as good

by Mark Holden

With the demand for campus computer services on the rise, the UMR Computer Center continues to seek ways to upgrade its equipment. The goal, met to varying degrees in the past, is to provide greater convenience and utility to users.

The center currently has three central processing units (CPU) in operation: VMA (IBM 4331), VMB (4381), and VMC (4341). The newest addition to the center consists of the IBM 4381 CPU under VMB. At a cost of \$477,000, the new unit is about 2½ times faster and can address twice as much memory, 16 megs compared to 8 megs on the IBM 4341 it replaced, according to

David Dirth, director of the center.

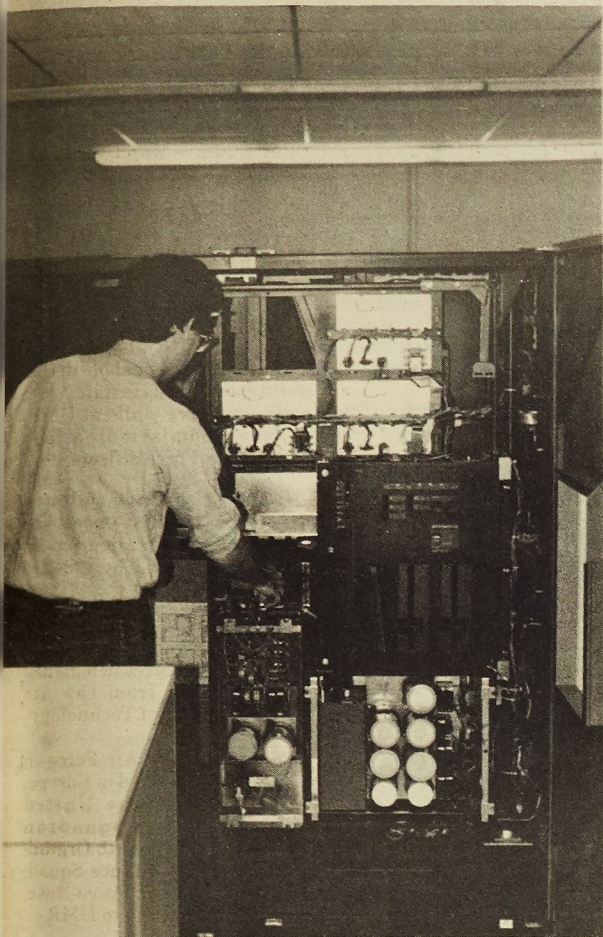
"The new unit is providing faster turnaround times as well as supporting more terminals", says David. "Interactive graphics users will benefit greatly from this addition, since the old CPU handled much of this load. Also, reliance on Columbia's computers will be reduced."

Asking whether the increased use of IBM personal (stand-alone) computers on campus has reduced mainframe demand, David replied, "The smaller programs, typically run on the personal computers now, was never a significant part of the center's load due to their size".

More improvements are on the way in the form of faster type graphics terminals. This is part of a \$2

million grant package by "Big Blue" himself, IBM. The current VMC (4341) CPU was also obtained in the first part of the grant, all to support education and innovation in graphics and computer aided design (CAD).

These improvements are exemplary of the UMR Computer Center's policy of incremental upgrading. While other universities may commit themselves more heavily to more powerful microcomputers that push the state-of-the-art, UMR as a whole has seemed to take a more parallel path of supporting mainframes as in the past and at the same time providing personal computers to its faculty and students.



The new IBM 4381 CPU makes the computer system 2½ times faster and can address twice as much memory. Shown here with it is computer operator David Illert.

## Plaque marks the site of fort

source: OPI

Rolla, Mo.—A plaque designating the site of Fort Dette, a Civil War fort that once stood near the present location of Norwood Hall, has been placed near the northwest corner of the hall.

The plaque contains a legend about Fort Dette and a reproduction of the only known illustration of the fort, a cross-section drawing used during construction.

Fort Dette, a blockhouse for artillery with infantry defense, was built by the Union Army during the Civil War, according to John F. Bradbury Jr., manuscript specialist with the Western Historical Manuscript Collection at UMR.

An article about the fort, which was written by Bradbury, appeared in the September 1983 issue of the Phelps County Historical Society's newsletter.

"Begun in mid-1863 and abandoned in August 1865," the article states, "this fortification guarded the northern approaches to Rolla and the army shops and warehouses along the railroad tracks."

"The fort was named for Capt. John F.W. Dette, a St. Louis architect and engineering officer who supervised its construction," the article continues.

Bradbury said his research of Civil War Army records failed to turn up a specific description of the location of Fort Dette, which was the second facility built by Union

forces for the defense of Rolla and the railroad. The first was Fort Wyman, which was located on a hill south of Rolla.

"General descriptions, however, place Fort Dette on a hill north of town, with a command of the railroad's northern approach to Rolla," he said. "This means that the fort was located, at least partially, on

ground now occupied by Norwood Hall, which was completed in 1902.

"Unconfirmed reports also indicate that timbers from the fort's foundation were uncovered in the early 1970s when some repair work was done to the northwest corner of Norwood Hall," he added.

see Fort Dette page 9



A plaque that commemorates the former site of Fort Dette was set up last week near the northwest corner of Norwood Hall. Present at the placing of the plaque were: Hugh Jesse, UMR assistant director of physical facilities; Dr. Marvin R. Cain, UMR professor of history; Dr. Harry J. Eisenman, chairman of the UMR department of history and political science; Dr. Gerald Rupert, chairman of the UMR department of geology and geophysics; and John F. Bradbury, manuscript specialist, Western Historical Manuscript Collection. Fort Dette, a Civil War blockhouse for artillery with infantry defense, was located on or near the present site of Norwood Hall on campus.

## Student vote

from page 1

continue to program for students. The decision-making authority will remain with the members of UB.

out of proportion to faculty votes. The students got all seven votes from their reps, they would have more voting power than several departments, such as Arts and Sciences and Mines and Metallurgy. Student Council has been trying to remedy the third problem. StuCo is the campus-wide organization that is responsible for appointing the student representatives who serve on the council.

StuCo also represents the student body before the Council and the Board of Curators on matters of complaints, suggestions,

and student activities.

Says Renfro, StuCo hopes to get a workable compromise and bring the issue up again in future sessions. At this time, StuCo has no definite plans on the issue because of a busy schedule. They hope to submit the proposal each semester until it passes.

A major point in favor of the issue is that students have had voting privileges in the past. Under Dean Roberts, the students had the power as a result of an official declaration of the dean.

The students had voting power while Roberts was dean, but when he left, students lost the vote. A vote of the faculty is required to give voting to students for all times.

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## Lottery

Letters to the Editor



## Comments

Joe Miner is a loser

Ode to the Dodo, Watt  
& Burfoot

## Lottery is 'Fool's Paradise'

by Kelly Wiggs

The following news item was clipped from a recent edition of the New York Times:

Chicago—A 28-year-old printer claimed a \$40 million prize from the Illinois State Lottery Monday and said he wanted nothing extravagant, just an engagement ring for his girlfriend for starters, and, oh yes, Cubs baseball tickets.

The prize won by Michael E.

Wittkowski was the largest lottery purse ever to go to a single winner in North America, and perhaps in the world.

Often a story like this provokes not only a bit of envy but also a slight surge of happiness. It is really nice to see a common Joe on the street make good once in a while. Usually the question arises as to why Missouri doesn't follow

suit with her neighbor across the river, as well as several other states, in promoting a state lottery. As many legislators in Jefferson City are loudly proclaiming, a state lottery would be the ideal solution to Missouri's near desperate financial situation. After all, a lottery makes an average citizen into a successful millionaire, lines the state's coffers with much needed revenue, and no one pays who doesn't want to!

Unfortunately, such a view is a fool's paradise. The fact of the matter is that the lottery system is the most inefficient, ineffective, counter-productive and unfair method of taxation ever devised by man.

Compared to responsible forms of taxation, a lottery is grossly inefficient. Currently, it costs the state from \$1 to \$2 to collect \$100

in revenues. Alternately, to collect that same \$100 would cost Missourians about \$55 using the lottery!

In truth, the addition of a lottery would hardly make a dent into the financial needs of our state since the total revenues from lotteries usually amount to less than two percent of state revenues.

The lottery would also create and intensify serious social problems. The story is told of a young man in Pennsylvania who wanted to help out his family. His parents were facing financial difficulty in their business. The young man was enticed by the advertisements of a \$2.5 million payoff that week in the Pennsylvania State Lottery. He took all his savings and bought \$6,000 in lottery tickets, hoping to win. He did win—\$36.50 from his 6,000 tickets! He went home and attempted to commit suicide.

The point of the story is that the lottery builds false hopes in people. In truth, the young man had a greater chance of being struck by lightning than of winning big in the lottery, but that was never mentioned in any of the advertisements.

A lottery is a highly regressive form of taxation. That is, it takes the greatest amount of money from those least able to pay. The poor, unemployed, disadvantaged and uneducated are easily taken by this state-supported get-rich-quick scheme. Aside from the fact that this is a morally irresponsible government, it also contains hidden costs which lottery supporters don't figure into the bottom-line cost. People who lose all or most of their money in lotteries end up on some form of state-supported welfare or resort to crime. Many of these citizens become compulsive gamblers. Nearly all compulsive gamblers (86%) who receive treatment admit to committing felonies to support their addiction. These crimes are usually financial in nature—embezzlement, fraud and other white-collar crimes.

The American Insurance Institute estimates that as many as 40% of all white-collar crimes are caused by compulsive gambling. Several reliable studies show that at 17% of wife abuse cases and 13% of child abuse cases result from compulsive gamblers mistreating their families.

Of course, in the great tradition of politicians, some of the easy bureaucrats have discovered an ideal solution. They want to throw money into state programs to rehabilitate compulsive gamblers.

Missouri citizens deserve a fair and responsible taxation. A lottery would only result in increased government waste, bloated welfare roles, and a high crime rate for our state.

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# Joe Miner makes a lousy mascot

by Art Smith

was recently brought to my attention that we at UMR are deprived of a vital part of the college experience. Perhaps have noticed this void in your also. I, of course, am referring our absolute lack of a real cool mascot.

What about Joe Miner," you

What about Joe Miner," I reply. When was the last time you saw old Joe at a university event? Not the only sport Joe gets into basketball, and he doesn't get excited about that. Indeed, we would feel embarrassed to bring an underqualified mascot to a game. Sorry Joe, but you just ain't what it takes to make it as a higher education mascot.

In all fairness to Joe, let's look at his strong points and see how they stack up against those of a real mascot. Let's begin with his three days growth of beard. Sorry Joe, but any animal mascot has more hormones in the hair department than you've managed to scrape together in many a year.

How about strength? Well Joe, my little sister could carry a slide rule around on her shoulder and not even break a sweat, much less slouch. Besides, slide rules are passe. If you cannot relate to at least the seventies, maybe you should become a professor instead of a mascot.

About the only advantage to Joe Miner as a mascot is that his name is easy to remember. If we use that as a qualification, however, we



could just as easily let the Chancellor (Joe M.?) sit on the sidelines dressed funny. I, of course, have much too much respect for the dignity that exemplifies the Chancellor to make such a degrading request.

At this point, I think anyone with an IQ higher than that of your average MTV guest VJ has realized that the only ones benefitting from Joe Miner as a mascot are the souvenir salesmen. Therefore, let us address the possible alternatives.

I've got my vote in for either the Dallas Cowboy Cheerleaders, the St. Louis Steamers Steamed Heat, or the football Cardinals Big Red Line. I think it is safe to say that any of the above would do wonders for both attendance and school spirit. For the sake of realism,

though, let's consider something closer to our budget (zilch?).

The San Diego Chicken seems to be on top of things in the mascot world and a similar character would work out real well if we could just get somebody to grow feathers or fur. I know for a fact that this campus has more than one person who would be willing to make a fool out of himself (herself) even without a costume to hide behind.

What it boils down to is that tigers roar, bulldogs are fierce, and even chickens can lay eggs, but Joe Miner just forgets to shave.

What do you think?

Put responses and letters to the editor about this in the Miner drop box, first floor Rolla Bldg., east side.

# Dode to the Dodo, Watt, Burford

by Kelly Wiggs

dedicated in Loving Memory to mes Watt, Ann Burford, and the other great environmentalists of the Reagan Administration

ere was an island years ago, and void of man was it. A bird lived there upon this rock and void was it of wit.

ne name of our island is Mauritius, a dot in the Indian Sea. ne name of our friend is the dodo rd, a dot in history.

e had short legs, an enormous ak, and a brain as small as a pea. turkey-sized body, a tuftlike tail with curly feathers had he.

ne bird was stupid and true to term, as happy as happy can be. or stupid people are the happiest as happy as stupid can be.

his bird lived ther for many a ar, and many children had he. his offspring had his stupidity, as stupid as stupid can be.

ere came on day from Portugal across the briney sea, swarthy men in sailing ships as brave as brave can be.

they settled on this island rock. their families to raise. little knew our dappled friend that numbered were his days.

was such a happy dodo bird, as happy as stupid can be. as his own joy that did him in, as his own stupidity.

was a simple, trusting bird and right up to the end, never occurred to this stupid o try to protect his skin.

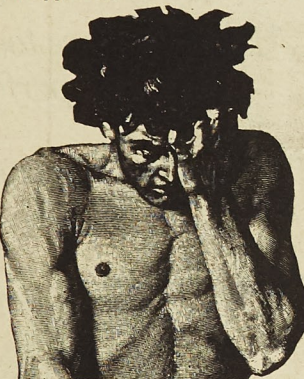
men brought pigs and rats and which sucked the dodo's eggs. dogs chased the bird around exhausting its little legs.

A great discovery was soon then someone's steamy kitchen, higgs the meat of the dodo bird

resembled that of chicken.

Fewer and fewer the dodos became from mountain to side of sea, These great big, ugly, stupid birds, as stupid as stupid can be.

Till all of the dodos had disappeared.



If death is the price of stupidity . . .

but who could really care? These were great big, ugly, stupid birds, who couldn't fly through air.

If death is the price of stupidity then perhaps it should be said, It oughtn't be the dodo bird but man who should be dead.

We say goodbye to the dodo bird, May his memory never cease. The dodo, the rail, and the passenger pigeon, may they rest in peace.

## Letters to the Editor

### On the UMR Film Series

Dear UMR Students,

On August 30, the UMR Film Series opened the season with the Grey Fox and a brand new sound system. For the first time, everyone in Miles Auditorium could enjoy a Thursday night movie without ear-fatigue from straining to make muddy sound into meaning.

I would like to thank the students for underwriting the purchase of the equipment

through a special allocation from the Student Council. The whole community will benefit from the decision. Special thanks to Gary Schnettgoecke, who prepared the application for funds, to Marshall Ryce who wrote the specifications for the equipment and then wired it up when it got here, to John Vaughn and Hugh Jesse of the University Administration who saw the project through so it would be ready for opening day.

In appreciation for the students' contribution to upgrading the quality of sonic life at UMR, there will be a free showing of the Beatles' **Yellow Submarine** in Miles auditorium on Friday, September 28 at 7, 8:45 and 10:30 p.m. Come and hear the music.

Thank you!

James Bogan  
Film Series Director

# HUGHES

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An impressive technological journey began over three decades ago at Hughes Aircraft Company. Today, with more than 90 diverse technologies ranging from sub-micron electronics to large scale systems, you'll find Hughes people forging new discoveries, new futures.

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Or contact Hughes Corporate College Relations, Dept. NC, Bldg. C2/B178, P.O. Box 1042, El Segundo, CA 90245. Equal Opportunity Employer Proof of U.S. Citizenship Required

**Hughes representatives will be on campus**

**October 1**

(See your placement office for an appointment.)

**HUGHES**

AIRCRAFT COMPANY

# ON CAMPUS



# World News Summary

source: St. Louis Post-Dispatch  
information used by permission

The World News Summary is a new feature of the news section. It is intended for its readers, who have gone to college for education, to keep them from being ignorant of world events.

The source for the Summary is the St. Louis Post-Dispatch. The information is used by its permission. The Post-Dispatch is not to be held responsible for any incorrect information we may print here.

## Consideration discontinued

The Senate has now discontinued consideration of President Ronald Reagan's nomination of Edwin Meese III for attorney general.

In an effort to avoid involving election-year politics in considering Meese's appointment, Sen. Strom Thurmond, chairman of the Senate Judiciary Committee, removed the issue from his panel's schedule until the end of the congressional session.

Questions concerning Meese's financial affairs with people who were later appointed to federal positions triggered an investigation shortly after Reagan nominated Meese for the position.

President Reagan has not yet seen the report by the independent counsel who conducted the investigation. However, the President maintains that unless anything unexpected shows up in the report, he will resubmit Meese's nomination in January, provided he is re-elected.

## Discovery returns

Early Wednesday morning, NASA's third space shuttle, the Discovery, completed its first trip. The ship's voyage lasted a total of six days and covered 2.49 million miles.

Tuesday, the shuttle's crew had experienced complications as they sought ways of destroying a 2-foot long thick chunk of ice that was blocking the Discovery's two waste-water vents.

The National Aeronautics and Space Administration felt the removal of the ice was essential to the shuttle's successful and undamaged entry into the earth's atmosphere Wednesday. Fortunately, the astronauts were able to remove the ice with the use of the Discovery's robot arm.

One of the highlights of the shuttle's recent trip was the successful launching communications satellites, which were more than any shuttle had ever launched before.

Another highlight of the flight was the use of a "medicine machine" to purify a secret hormone which was immediately taken to a laboratory in St. Louis upon the Discovery's landing.

## Postal Rates Increase

A recommendation by the Postal Rate Commission called for 22 cents first class postage and 14 cents for post cards. These suggested rates fell one cent short of those requested by the Postal Service.

The rate commission received requests for these and other increases last November.

When the Postal Services Board of Governors meets this week, they have several options. These

options include accepting the commission's decision, asking for reconsideration, seeking court action, or letting the new rates come into effect under protest.

## Reagan on religion

It seems that a statement made by President Ronald Reagan during a prayer breakfast in Dallas has become the source of much-heated political discussion during the first week of the race for the presidency.

During the prayer breakfast, Reagan stated that politics and religion could not be separated in the life of America, and that people had the right and duty to impose on political decisions any religious values they might have.

Because of the confusion that arose from this position, Reagan gave a speech in Salt Lake City in an effort to further explain himself. During the speech, the president reaffirmed his belief in freedom of all religions, as well as separation of church and state.

Reagan's position was further explained when he said "I can't think of anyone who favors the government establishing a religion in this country. I know I don't. But what some would do is to twist the concept of freedom of religion to mean 'freedom against religion.'"

Despite Reagan's efforts to clarify himself, Walter Mondale and Geraldine Ferraro insist that Reagan has abandoned the principle of separation of church and state.

In appearances before the B'nai Brith, the Jewish anti-reformation group, and the Baptist National Convention, Mondale accused Reagan's administration of having "opened its arms" to religious fanatics.

## Indexing for cutting taxes

Indexing, a new procedure for cutting taxes, will come into effect this January. This system was adopted when Congress approved President Reagan's three-year tax cut plan in 1981.

This tax cut will result in an extra \$1 a week for a family of 4 with one wage-earner. A family with an income of \$250,000 will realize an additional \$15 a week.

The purpose of indexing is to adjust the nation's tax rates to compensate for inflation. The effect of this cut will not be widely realized by individuals within the next year or two, because it will be based on an inflationary rate of about 4 percent.

However, as a result of indexing, the federal government will realize a \$9.4 billion revenue loss the first year and \$150 billion during the first five years.

## Soviet leader seen again

President Konstantine U. Chernenko of the Soviet Union, who had not been seen in public since July 13, attended a ceremony in the Kremlin Wednesday, held in honor of three cosmonauts.

It is suspected that the reason for the leader's absence may have been a serious illness.

Although foreign reporters were not allowed at the ceremonies, they were broadcast on Soviet television. It is reported that Chernenko appeared normal on television except towards the end of the ceremony when he appeared to be breathing rapidly.

During the ceremony on September 5, Chernenko asked the U.S. to join the Soviets in negotiations to ban space-based weapons and anti-satellite systems.

## The Candidates View in Brief

The following information is intended to supply readers with a brief overview of the more striking differences between Ronald Reagan's and Walter Mondale's positions. However, it is in no way comprehensive.

Beginning with social policies, the candidates' viewpoints immediately diverge as Mondale favors the Equal Rights Amendment, whereas Reagan opposes the ERA.

In addition to this, Mondale holds that civil rights laws should be firmly enforced, and that government should not sanction prayer in schools.

Reagan, on the other hand, would like to see a constitutional amendment that would permit prayer in public schools. The President also favors forbidding abortions.

Two of the issues that would come under the realm of education are merit pay for teachers and tuition tax credits. In both cases, Reagan supports them, whereas Mondale does not. Mondale does, however, approve of bilingual education and improving student aid programs. Reagan opposes busing students for the purpose of desegregating the races.

Concerning foreign policy, variation in the candidates' views can be clearly stated. Mondale is in opposition to giving more aid to rebels in Nicaragua. However,

Reagan would prefer the aid to continue. On the other hand, relocating the U.S. embassy in Tel Aviv to Jerusalem is a move of which Mondale is in favor and Reagan is not.

Finally, in regard to arms control, Mondale favors, while Reagan opposes, a nuclear freeze. Another issue is that of defense spending. Here, Mondale would hold the military budget to an increase of 3-4 percent, but the Republican candidate would boost it by 7.5 percent. President Reagan contends that the U.S. will be able

to negotiate with the Soviets from a firm position if the military continually being built up.

## Resolution passed

The bill on campaign finance reform that Governor Christopher S. Bond neglected to sign or veto came up before the Missouri Legislature's veto session this past week.

A resolution was passed in the Missouri House by a vote of 99-0 in favor of carrying out the bill.

World News page 7

## FAMOUS LAST WORDS FROM FRIENDS TO FRIENDS

*"Are you OK to drive?"  
"What's a few beers?"*

*"Did you have too much to drink?"  
"I'm perfectly fine."*

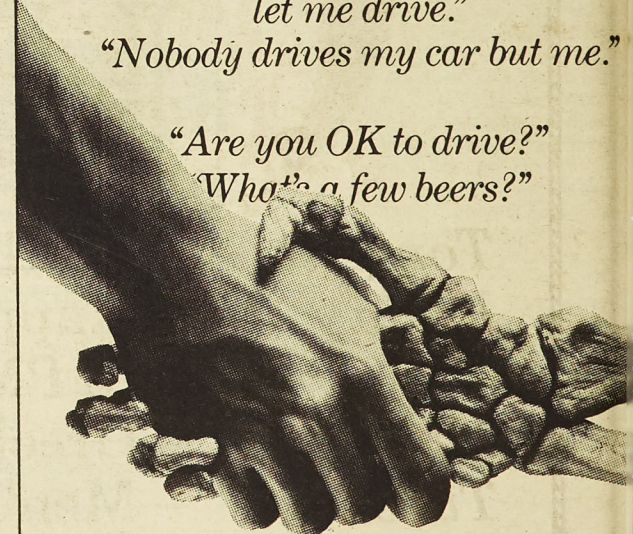
*"Are you in any shape to drive?"  
"I've never felt better."*

*"I think you've had a few too many.  
"You kiddin, I can drive  
with my eyes closed."*

*"You've had too much to drink,  
let me drive."*

*"Nobody drives my car but me."*

*"Are you OK to drive?"  
"What's a few beers?"*



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CAN KILL A FRIENDSHIP**

U.S. Department of Transportation

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Supervised Housing.  
**QUIET HOURS**  
**24 Hours a Day**  
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## Job coordinating service available to UMR students

source: OPI

Rolla, Mo.—University of Missouri-Rolla students seeking part-time employment can make use of a new job coordinating service available to them on campus this fall.

As part of the service, a listing of part-time on- and off-campus jobs are posted each week on the bulletin boards outside the UMR Student Activities Office, 202 Rolla Building, and the Career Development Office, Buehler Building.

"We are serving as a clearing-house for employment opportunities and are trying to bring together students needing work and employers who have jobs available," said Dr. B. Ken Robertson, dean of students at UM-Rolla. "We have helped a number of students find jobs this semester and hope to assist many more through this service."

Cindy Miller, UMR student services adviser, coordinates the program.

For further information on the program contact the Student Activities Office, 202 Rolla Building, phone 314-4283.

## Writing course to be offered in evenings

source: OPI

Rolla, Mo.—The University of Missouri-Rolla will offer a course in "Writing and Editing for Print Media" (Speech and Media 101)

news briefs news briefs news briefs news briefs news briefs news briefs news briefs news briefs

# NEWS BRIEFS

news briefs news briefs news briefs news briefs news briefs news briefs news briefs news briefs

from Sept. 12 through Dec. 11.

The three-hour-credit course will provide an introduction to writing and editing for different publications. Topics will include style, editing, practice and procedures and publication standards. The class will meet from 6—9 p.m. on Wednesdays in Room G-4 of the UMR Wilson Library.

Course instructor is Larry Allen, UMR assistant director of alumni activities. Fee for the course is \$138. UMR students enrolled in 14 hours can take the course at no additional cost. UMR staff may utilize educational assistance. Advance registration is requested to ensure class formation.

For further information on enrollment contact Dr. Stephen Douglas, director of education services, Arts and Sciences Continuing Education, G-7 Humanities-Social Sciences, UMR, Rolla, Mo. 65401, phone 314-341-4131. Questions concerning course content should be directed to Allen at 341-4145.

The course is a UMR College of Arts and Sciences Continuing Education activity.

## Open solo auditions for "Messiah" set for Sept. 16 at UM-Rolla

source: OPI

Rolla, Mo.—Open solo auditions for Handel's "Messiah" will be held at 2 p.m. Sunday, Sept. 16, in Room 101 of the Old Cafeteria at

the University of Missouri-Rolla. UMR students, faculty and staff as well as the general public are invited to participate.

The University Choir and Orchestra will present the Christmas portions of the "Messiah" during UMR's 1984 fall semester and the Easter portions during the 1985 spring semester.

Those interested will be expected to do some pre-audition solo singing and should provide their own rehearsal accompanist. An accompanist will be available for the actual audition.

Auditions will consist of performing all of one of the following arias: soprano, No. 38, "How Beautiful the Feet of Them"; contralto, No. 9, "Oh Thou That Tellest . . ."; tenor, No. 3, "Every Valley Shall Be Exalted"; and bass, No. 40, "Why do the Nations . . ."

Joel Kramme, UMR associate professor of music, will direct the choir and orchestra.

Interested persons should contact Kramme at G-8 Harris Hall, UMR, Rolla, Mo. 65401, phone 314-341-4185.

## UMR to offer three computer science courses

source: OPI

Rolla, Mo.—Applications are still being accepted for three post-baccalaureate computer science courses being offered by the Uni-

versity of Missouri-Rolla this fall. The three-credit-hour courses are intended for teachers and persons in related occupations. All three courses will meet from 5:30—8:30 p.m. each Monday from Sept. 10 through Dec. 17.

Computer Science 201, Introduction to Microcomputers, is designed for those who have little or no experience with computers.

Computer Science 301-A, BASIC Language, is an introduction to micro-soft, BASIC and personal computers. Participants in this course are expected to have completed Computer Science 201 or the equivalent. Emphasis is on language syntax, structured programming and problem solving.

Computer Science 301-B, Advanced BASIC Language, is a higher-level course on the subject with emphasis on files, menus and software evaluation and development.

Instructors for the courses are Dr. Howard Pyron, UMR associate professor of computer science, and Mary Colton, high school business teacher in Cuba, Mo.

Fee for the course is \$177. Checks or credit card charges will be held until classes start and all fees will be returned in the event of insufficient enrollment.

For information on course content call Pyron at 314-341-4495. For enrollment information contact Dr. Stephen Douglas, Arts and Sciences Continuing Educa-

tion, UMR, Rolla, Mo. 65401, 314-341-4131.

The courses are UMR computer science continuing education activities.

## World News Summary

from page 6

without Bond's signature, the discussion now moves to the Senate where the issue will continue to be whether or not a governor has the constitutional authority to avoid taking action on the legislation that is sent to him.

The bill that Bond ignored dealt with campaign finance disclosure, but also included a provision that would hinder municipalities from controlling their employees' political activities. It is this second provision that Bond objected to.

Bond claims that his reason for not vetoing the bill was that it would lead to "the vicissitudes of partisan politics that are inevitably associated with veto override attempts."

The resolution that could bring the bill into effect is being considered in the Senate this week.

## Lobbyists spend millions

During the first quarter of 1984, lobbyists for labor, business and ideological groups spent \$11.75 million. This total represents the second largest three-month expenditure since the 98th Congress first convened in January, 1983.

## Come down for lunch at



**Tonight** -- Bottle Nite  
**Friday** -- Happy Hour  
 3 PM - 6 PM  
**Monday** -- Greek Nite  
**Tuesday** -- Men's Nite  
**Wednesday** -- Lady's Nite

Under Sunnywall flower on  
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**TK'S  
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 Get one FREE**

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## Septemberfest not a washout

by Jeff Dawdy

This weekend, Sat. the 8th specifically, Rolla experienced a party thrown by the ST. PAT'S BOARD. This party, or event as it should be called, was Septemberfest '84. Septemberfest is an annual event, this last one being the 7th such event. This year's Septemberfest was held on a Saturday to provide students from other colleges the opportunity to come down and party Rolla style.

The day itself was overcast and windy with a 60% chance for rain. The BOARD had put up a cardboard wall around the front of Lion's Club Park in order to cause as little disturbance as possible to Wal-Mart shoppers. There was a band, 'The Smith Brothers', set up in the far pavillion getting ready to rock the large crowd that would soon be on hand. Along the outside of the largest pavillion there were five beer trucks parked bumper

per to bumper preparing to start the beer flowing. The BOARD was busy getting ready for the party to begin.

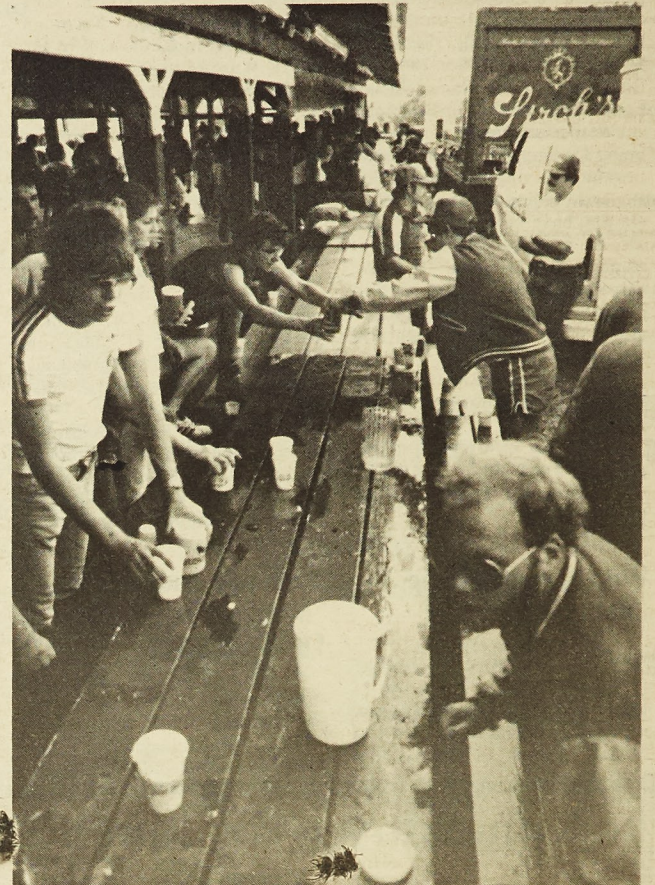
It began at 1:00 and a little bit after that the shuttle buses started to roll in, bringing with them hordes of people. There were people from all locations. Some came down from St. Louis, others from Miz-zou and Springfield, even some from Illinois, but most of them were from Rolla. Despite coming from different areas these people all had two things in common: one was a button, the ticket for admission, the other was the idea that they were about to go wild at one of the biggest, most organized parties of the semester.

At around 2:30 the party was in full swing. There were people dancing over by the band, and the beer pavillion always seemed to be full. A couple of small groups of people with green magic markers were running around painting shamrocks

and hearts on everyone's face who would let them. By 5:00 there was hardly a face in the crowd without one or the other. Everyone appeared to be having a great time.

Then the rains came, but the BOARD members did not desert their posts until the last tapper had been unhooked. At this time most of the people began to scurry for the buses to catch their ride home. Some stayed under the pavillion and waited out the crowd, others started up a game of football in the mud.

The final scene was that of a few isolated groups standing around talking, probably about the day and what they would do that evening, and also there were rain soaked BOARD REPS cleaning up the mess, tearing down the cardboard wall, replacing the tables, and probably thinking ahead to an even bigger party when they put on Extravaganza at ST. PATS 1985.



Septemberfest. Beer is not the "be all and end all" of the Septemberfest, but the cup that cheers was always in supply for those that wanted it.

## Superhopper strikes back

by Michael Walsh

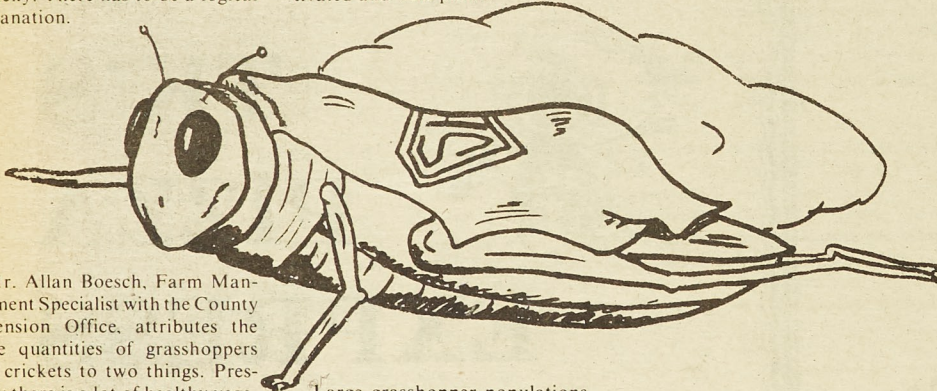
Have you noticed the unusually large amount of crickets and grasshoppers around Rolla? You probably think it's a freak of nature or a plot by Hollywood to make another movie like *The Bees*. It could be a new super-race of grasshoppers that will take over the world by knocking off small continents first and growing in power. Let's not get panicky. There has to be a logical explanation.

dators of grasshoppers include: birds, turkeys, foxes, skunks, and even cats.

There are over 600 species of grasshoppers inhabiting the United States. Practically all pass the winter months in the egg stage, though a few species spend winter as partly grown nymphs or as adults. Grasshoppers occur over the entire and attack nearly all cultivated and wild plants.

After a period of a few weeks, many of the insects get a terminal disease. This usually comes from overpopulation and lack of food and governs the grasshopper population.

Just remember, Hollywood wouldn't make a movie in Rolla even if the Russians landed here. The grasshoppers will all be gone soon and so will the excitement.



Mr. Allan Boesch, Farm Management Specialist with the County Extension Office, attributes the large quantities of grasshoppers and crickets to two things. Presently there is a lot of healthy vegetation which supplies food for the insects. Second, the warm, dry climate during the past weeks provided ideal conditions for breeding.

If you are a hunter you should be very happy about all the grasshoppers. I know that no one hunts grasshoppers but you all hunt their predators. Some of the main pre-

Large grasshopper populations are not a problem where there is an annual rainfall of 25 inches or more. When babies hatch out they run the risk of drowning in rain storms. With cold and rainy conditions there are not as many grasshoppers as when it is warm and dry. When farmers plow their land, they kill all the eggs.

Protection from grasshoppers, said Mr. Boesch, can be found at the stores in the form of chemical pesticides applied by spraying gardens and farmlands. So don't get mad at the grasshoppers when they wipe out your garden, just get even.

Eggs are laid in packet-like masses nearly 1 inch long and from 1/2 to 2 inches below the surface of the soil. Each egg mass consists of from 20 to 120 elongate eggs. A single female may deposit from 8 to 25 egg masses. They are mainly deposited in uncultivated ground such as field margins, pasture land, and roadsides. Eggs are mainly deposited during the latter part of September and October for the next summer. They begin hatching when the ground warms up. It takes a baby 40 to 60 days to reach the adult stage.

### St. Pat's facts

by Jeff Dawdy

The ST. PAT'S BOARD and I would just like to take this opportunity to thank everyone who came out to SEPTEMBERFEST '84 and made it a great success. I'd also like to thank good ole mother nature for holding off the rain until 5:00.

Also green sales will be starting soon so that everyone will be prepared for the colder months ahead.

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Buy 3 Books, Get 4th FREE

One Horse Books & Records

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364-2244

\*\*\*\*\*Offer Expires 9-29-84\*\*\*\*\*



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Perm . . . \$25.00

(Includes shampoo, cut & style)

Hair cut . . \$5.00

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COUPON EXPIRES SEPTEMBER 30



COUPON



# Placement Permanent

**GENERAL ELECTRIC CO., Englewood, CO**  
Will interview December 1984, May 1985 grads with BS/MS in AE, ME, Comp Science, Nuclear, Metallurgical Engineering for the following programs: Edison Engineering, Field Engineering, Manufacturing Management, Technical Marketing, and GE Information Services Company. U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED. G.P.A. OF 3.0 IS REQUIRED TO SIGN ON SCHEDULE; IF YOU DO NOT MEET THIS REQUIREMENT, YOU MUST SIGN ON THE BACK-UP LIST  
Location: Nationwide; Midwest  
Interviewers: Mr. Ricketts (schedule for Nuclear Engineering majors); Mr. Jamison (schedule for Computer Science majors - GE Information Services); Mr. Higham (schedule for Manufacturing Management); Ms. Kaiser (schedule for Technical Marketing); Mr. Shookley (schedule for Field Engineering); Mr. Heitlinger (schedule for AE's, ME's and general engineering); Mr. Basden (schedule for Met, ME, EE Engns and general engineering); Mr. Fitzer (schedule for Edison Engineering & engineers); and Ms. Banks (schedule for general engineering).  
NOTE: STUDENTS ARE TO SIGN (1) SCHEDULE ONLY - AREAS OF INTEREST: LISTED ABOVE. STUDENTS MUST COMPLETE THE PERSONAL INFORMATION FORM PRIOR TO THE INTERVIEW. THEY WILL BE AVAILABLE AT TIME OF SIGNUPS. PLEASE TURN IN TO CAREER DEVELOPMENT BY SEPT. 26.  
Interview date: October 3-4, 1984  
Priority Signup: September 18, 1984  
Regular Signup: September 19, 1984

**MONSANTO COMPANY, St. Louis, MO**  
Will interview MAY 1985 grads with BS/MS in Electrical, Mechanical, Chemical Engineering for Industrial Chemicals Co. (job description is not available at this time.); BS/MS in Computer Science for individual to help resolve computer hardware, operating system, and application software problems. U.S. CITIZENSHIP REQUIRED.  
Location: Nationwide; St. Louis  
Interviewers: unknown  
Interview date: October 2, 3, 1984  
Number of schedules: 1-Oct. 2-3 for EE 1-Oct. 2 for ME, ChE 1-Oct. 2-3 for Comp Sci  
**TENNECO OIL COMPANY, Houston, TX**  
Will interview December 1984, May 1985 grads with BS/MS in Petroleum, Geological Engineering for positions in drilling, reservoir & production engineering. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED  
Location: Houston, San Antonio, Lafayette, Bakersfield (CA); Denver, Oklahoma  
Interviewers: unknown  
Interview dates: October 2-3, 1984  
Number of schedules: 1 ea day for PE 1 ea day for GE  
Priority signup: September 17, 1984  
Regular signup: September 18, 1984

**HEWLETT PACKARD COMPANY, Corvallis, OR**  
Will interview DECEMBER 1984 grads with BS/MS/PhD in Electrical Engineering, Computer Science for Design, Production, Marketing: Digital hardware and/or software, analog, and integrated circuit. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED. (NOTE: Engineering Mgt. students may sign on back-up list ONLY).  
Location: CA, OR, WA, CO, ID, PA, NJ, MA, plus many field offices  
Interviewer: Bob Livengood  
Interview date: October 4, 1984  
Number of schedules: 1  
Will interview DECEMBER 1984 grads with BS/MS/PhD in Mechanical Engineering for Design, Production, Manufacturing, Marketing, Sales. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: ID, CA, CO, OR, WA, NJ, MA, PA  
Interviewer: Dave Prouty  
Interview date: October 4, 1984 (1 schedule)  
Will interview DECEMBER 1984 GRADS with BS/MS/PhD in Electrical Engineering for Design, Production, Marketing, Sales Engineers - Hardware, Integrated Circuits.  
Location: CA, CO, WA, OR, ID, MA, NJ, PA, many sales offices  
Interviewer: Ron Riedel  
Interview date: October 4, 1984  
Number of schedules: 1  
NOTE: AN INFORMATION MEETING FOR HEWLETT PACKARD WILL BE HELD ON OCT. 3rd FROM 5-7 P.M. IN THE ME AUDITORIUM.  
**PHILLIPS PETROLEUM, Bartlesville, OK**  
Will interview December 1984, May 1985 grads with BS/Comp Sci for Business & Tech. Program Applications; BS/Petroleum Engineering for Exploration & Development Program; BS/Electrical, Mechanical Engineering for Engineering Development Program.  
Interviewers: unknown 3.0 GPA OR BETTER & U.S. CITIZENSHIP OR PERM. VISA REQUIRED.  
Interview dates: October 4, 5, 1984  
Number of schedules: 1 ea day for Csc 1 ea day for PE 1 ea day for EE, ME  
Priority signup: September 19, 1984  
Regular signup: September 20, 1984

**WELEX, DIV. OF HALLIBURTON, Houston, TX**  
Will interview DECEMBER 1984 grads with BS in Electrical Engineering, Physics for Oilfield Service Engineer: operates and maintains surface and subsurface electronic equipment, manages a logging crew, and provides on-the-spot analysis of collected data from new oil and gas wells. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Rocky Mountain Region  
Interviewer: Terry Boyd  
Interview date: October 4, 1984  
Number of schedules: 1  
Priority signup: September 19, 1984  
Regular signup: September 20, 1984

**JOLGATE PALMOLIVE, Kansas City, KS**  
Will interview DECEMBER 1984 grads with BS in Chemical, Electrical, Mechanical Engineering for career opportunities in marketing, manufacturing, systems, finance, research & development, and sales. U.S. CITIZENSHIP ONLY.  
Location: Kansas City  
Interviewer: unknown at this time  
Interview date: October 5, 1984  
Number of schedules: 1  
Priority signup: September 20, 1984  
Regular signup: September 21, 1984

**SONOCO BUILDINGS, Chetopa, KS**  
Will interview recent grads (2-5 yrs), December 1984 grads with BS/MS in Civil Engineering for design and estimating of metal buildings (time to be split approx. equal).  
Location: Chetopa, KS  
Interviewer: Iana Siekert  
Interview date: October 5, 1984  
Number of schedules: 1  
Priority signup: September 20, 1984  
Regular signup: September 21, 1984

**FERGUSON ELECTRIC MOTOR DIV., St. Louis, MO**  
Will interview December 1984, May 1985 grads with BS/MS in Electrical, Mechanical Engineering, Engineering Management for application & development engineers. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: St. Louis & plants in mid-south  
Interviewers: unknown  
Interview date: October 5, 1984  
Number of schedules: 3  
Priority signup: September 20, 1984  
Regular signup: September 21, 1984

**VULCAN CHEMICALS, Wichita, KS**  
Will interview recent grads (2-5 yrs), December 1984 grads with BS in Chemical Engineering for Process Engineering Div. MUST BE U.S. CITIZEN.  
Location: Wichita, KS  
Interviewer: unknown  
Interview date: October 5, 1984  
Number of schedules: 2  
Priority signup: September 20, 1984  
Regular signup: September 21, 1984

**MANVILLE, Denver, CO**  
Will interview MAY 1985 grads with BS/MS in Chemical, Mechanical Engineering for Research & Development. (Manville is known throughout the world as a diversified mfg. and mining corp.) Job details will be posted with signups for Manville. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: Denver  
Interviewer: unknown  
Interview dates: October 4, 5, 1984  
Number of schedules: 1 ea day  
Priority signup: September 19, 1984  
Regular signup: September 20, 1984

**HALLIBURTON SERVICES, Duncan, OK**  
Will interview DECEMBER 1984, MAY 1985 grads with BS in Chemical, Civil, Mechanical, Petroleum Engineering for Field Engineering. At Halliburton, field engineering involves a combination of oil/gas well service treatment designs, technical sales and on-location supervision of these engineering service jobs. U.S. CITIZENSHIP OR PERMANENT RESIDENCE REQUIRED. INTERVIEWS WILL BE 45 MIN. IN LENGTH.  
Location: Kansas and the Texas and Oklahoma Panhandles  
Interviewer: Marvin Klein  
Interview date: October 4, 1984  
Number of schedules: 1  
Priority signup: September 19, 1984  
Regular signup: September 20, 1984

**NATIONAL STANDARD, Niles, MI**  
Will interview recent grads (2-5 yrs), DECEMBER 1984 GRADS with BS in Metallurgical, Mechanical Engineering, Computer Science for National Standard Corporate Employment. G.P.A. REQUIREMENT: 3.0 MINIMUM  
Location: Niles, MI  
Interviewer: unknown  
Interview date: October 3, 1984  
Number of schedules: 1  
Priority signup: September 18, 1984  
Regular signup: September 19, 1984

**SOUTHWEST RESEARCH INSTITUTE, San Antonio, TX**  
Will interview DECEMBER 1984 grads with BS/MS/PhD - combination of EE and Comp Sci. Disciplines either between degrees or within a degree for Senior Research Engineers and Research Engineers (entry level) participating in project teams doing laboratory and field work on research and engineering projects obtained competitively from government and private industry. Approximately 850 projects are underway at one time in the following divisions: Electronic Systems, Electromagnetics, and Instrumentation. U.S. CITIZENSHIP REQUIRED DUE TO DEFENSE SECURITY REQUIREMENTS. G.P.A. REQUIREMENT: 3.0 OR BETTER  
Location: San Antonio, TX  
Interviewer: D. F. Burton  
Interview date: October 3, 1984  
Number of schedules: 2  
Priority signup: September 18, 1984  
Regular signup: September 19, 1984

Will interview DECEMBER 1984 GRADS with BS/MS/PhD in Electrical Engineering, Computer Science for Field Sales, System Engr., Customer Engr., Marketing, Design, Production - Hardware or software and digital or analog. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: Field offices in most large cities  
Interviewer: Rick Wayne  
Interview date: October 4, 1984  
Number of schedules: 1  
Priority signup: September 18, 1984  
Regular signup: September 19, 1984

**Campus interviewing for week of Oct. 8-12, 1984**  
Signups for the following companies will be located in the basement of the Buehler Building, 9th & Rolla Streets (use door on the southeast corner).  
Signups hours: 8:00-11:00 a.m. for morning interviews; 1:00-3:00 p.m. for afternoon interviews.

**BORG WARNER CHEMICALS, INC.**  
Will interview DECEMBER 1984, MAY 1985 grads with BS in Chemical Engineering for Process Engr.-Plant Facility, Project Engr.-Plant Facility, Process Development Engr.-R&D Facility, Product. Dev. Engr.-R&D Facility, Sales Trainees-Headquarters, Tech. Service Engr.-Headquarters (all located in Parkersburg, West VA); BS in Chemical Engineering for Group Engineer-Plant Facility (Ottawa, IL); PhD in Chemistry (Organic) for Sr. Chemist-R&D Facility (Parkersburg, West VA). PERMANENT VISA ACCEPTABLE.  
Location: listed above  
Interviewers: Neale Williams & Wes Ray  
Interview date: October 8, 1984  
Number of schedules: 1-BS in ChE 1-PhD in Chemistry  
Priority signup: September 21, 1984  
Regular signup: September 24, 1984

**CONTROL SYSTEMS, Kansas City, KS**  
Will interview DECEMBER 1984 grads with BS/MS Electrical Engineering, Computer Science.  
Location: Kansas City, KS  
Interviewers: Ann Flynn & Mike Distefano  
Interview date: October 8, 1984  
Number of schedules: 1-BS/MS in EE 1-BS/MS in Comp Sci  
Priority signup: September 21, 1984  
Regular signup: September 24, 1984

**DALE ELECTRONICS, Columbus, NE**  
Will interview recent grads (2-5 yrs), DECEMBER 1984 grads with BS in Mechanical, Electrical Engineering for automation design engineering, product and/or process engineering, high-speed automation control, design engineering, sales application engineering. U.S. CITIZENSHIP REQUIRED; WILL CONSIDER PERMANENT VISA.  
Location: Columbus, Norfolk, NE; El Paso, TX; Yankton, SD; Tempe, AZ  
Interviewers: unknown  
Interview date: October 8, 1984  
Number of schedules: 2  
Priority signup: September 21, 1984  
Regular signup: September 24, 1984

**FARMLAND INDUSTRIES, Lawrence, KS**  
Will interview DECEMBER 1984 grads with BS in Chemical Engineering for Process Engineer. U.S. CITIZENSHIP REQUIRED.  
Location: Lawrence, KS  
Interviewer: Jim Ramsey  
Interview date: October 19, 1984  
Number of schedules: 1  
(4 interview openings for morning signups; 5 interview openings for afternoon signups) NOTE: ORIGINAL DATE OF OCT. 8 CHANGED TO OCT. 19

**TRANSCOMPANY, LaCrosse, WI**  
Will interview DECEMBER 1984, MAY 1985 grads with BS in Electrical, Mechanical Engineering for Engr. Sales (86 major U.S. cities); BS in Electrical, Mechanical Engineering for Product Management (LaCrosse); BS/MS in Electrical, Mechanical Engineering for Development (LaCrosse); BS in Electrical, Mechanical Engineering for Manufacturing (LaCrosse). U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: listed above  
Interviewers: unknown  
Interview date: October 8-10, 1984  
Number of schedules: 1 ea day  
Priority signup: September 21, 1984  
Regular signup: September 24, 1984

## SUB from page 1

Mark Stuntner, SUB president, felt that they will benefit from being able to work more closely with A.S. since they now have better access to University facilities. He commented that the students still controlled the money and that students were still making the decisions. He feels that students will always be in control of SUB, and he sees no change in store.


Stuntner added that "we're programming for them (the students)," and students should let SUB know when they do something wrong.

The general consensus seemed to be that of SUB improving because of the change.

## Fort Dette from page 3

The commemoration of Fort Dette also helps to put Rolla's role in the Civil War into proper perspective.

"Although the Civil War had a number of significant battles such as Gettysburg, by and large it was a war of skirmishes and far-flung outposts," said Dr. Marvin Cain, professor of history at UMR who studies the Civil War era. "There was never a conflict at Rolla, which—because it was a railhead—was primarily a staging area for the Union forces in the southern portion of the state. Fort Dette was an example of the type of facility used for that purpose."



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**COMPUESTO:** Past participle of componer, also adjective: fixed; adorned; composed; composite.

**COMBINATION:** A set of items taken from 1 to x at a time. If x equals 8 NACHO INGREDIENTS, the number of combinations is 255.

**NACHOS COMPUESTOS:** Name of a great composite of up to 8 nutritious ingredients, chosen by the customer, unbelievably delicious, and found six days per week at

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Steve Richards—Manager



# Placement

from page 9

**SOUTHERN CALIFORNIA GAS COMPANY, Los Angeles, CA**  
Will interview DECEMBER 1984, MAY 1985 grads with BS in Petroleum Engineering for Petroleum Engineer. Will provide staff expertise in general reservoir engineering studies of underground storage fields owned and operated by the company. (Additional details will be available at time of signups).  
U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED. G.P.A. REQUIREMENT: 3.0 MINIMUM  
Location: Los Angeles  
Interviewers: unknown  
Interview date: October 8, 1984  
Number of schedules: 1  
Priority signup: September 21, 1984  
Regular signup: September 24, 1984

**TEXAS UTILITIES SERVICES, INC., Dallas, TX**  
Will interview December 1984 grads with BS in Electrical Engineering for power & wide variety of positions; BS in Mechanical, Nuclear Engineering for POWER PLANT ONLY; BS in Mining Engineering for strip mining operation.  
U.S. CITIZENS ONLY.  
Location: Texas  
Interviewers: unknown  
Interview date: October 8, 1984  
Number of schedules: 2-EE  
1-ME  
1-Mining  
Priority signup: September 21, 1984  
Regular signup: September 24, 1984

**INGERSOLL RAND, Mayfield, KY**  
Will interview DECEMBER 1984 grads with BS/MS in Mechanical Engineering for Manufacturing, Contracting & Development Engineering. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED. MIN. G.P.A. REQUIREMENT: 2.0  
Location: all locations  
Interviewers: unknown  
Interview date: October 8, 1984  
Number of schedules: 2  
Priority signup: September 21, 1984  
Regular signup: September 24, 1984

**THE PROCTER & GAMBLE COMPANY, Cincinnati, OH**  
Will interview DECEMBER 1984, MAY 1985 GRADS with BS/MS in Chemical, Mechanical, Electrical, Civil Engineering, Engineering Management for Plant Manufacturing Management: Process/Chemical Engr., Mechanical/Maintenance Engineer, Team Manager/Supervisor, Project Engineer, Technical Engineer, Industrial Engineer/Staff Supervisor, Automatic Control Engineer. U.S. CITIZENSHIP OR PERMANENT IMMIGRANT VISA REQUIRED.  
Location: Cape Girardeau, MO  
Interviewers: unknown  
Interview date: October 8, 9, 10, 1984  
Number of schedules: 1 ea day  
Priority signup: September 26, 1984  
Regular signup: September 27, 1984

**THE PROCTER & GAMBLE COMPANY, Cincinnati, OH**  
Will interview DECEMBER 1984, MAY 1985 grads with BS/MS in Chemical Engineering for R&D/Product Development: Process Development, Products Research, & Technical Packaging. U.S. CITIZENSHIP OR PERMANENT IMMIGRANT VISA REQUIRED.  
Location: Cincinnati, OH  
Interviewer: A.R. Spector  
Interview date: October 9, 10, 1984  
Number of schedules: 1-Oct. 9  
1-(morning interviews-  
Oct. 10; morning signups only)  
(PLEASE NOTE CHANGE IN SIGNUP DATE)  
Priority signup: September 26, 1984  
Regular signup: September 27, 1984

**HELL HELICOPTER TEXTRON, Ft. Worth, TX**  
Will interview DECEMBER 1984 grads with BS/MS in Aerospace Engineering for Airframe design, aerodynamics, handling qualities, flight test; BS/MS in Electrical Engineering for Aircraft Electric & electronic system design, systems integration, research electronics; BS/MS in Engineering Mechanics for Structures Analysis Loads, dynamic analysis; BS/MS in Mechanical Engineering for Mechanical Design rotors, hydraulics, transmissions, etc. Research Design. U.S. CITIZENSHIP REQUIRED.  
Location: Ft. Worth/Dallas, TX  
Interviewers: unknown  
Interview date: October 9, 1984  
Number of schedules: 2  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**FACTORY MUTUAL ENGINEERING CORP., Maryland Heights, MO**  
Will interview recent grads (2-5 yrs), December 1984, May 1985 grads with BS in Chemical, Civil, Electrical, Mechanical Engineering, Engineering Management, Engineering Mechanics for Loss Control Consultant in area of fire, explosion, machinery failure, collapse, etc. For industrial & commercial & retail clients. MUST HAVE U.S. CITIZENSHIP.  
Location: St. Louis District Office: includes middle & west Tennessee, Missouri, Kansas & Arkansas and adjacent sections of Oklahoma, Illinois, Indiana, Kentucky, and Mississippi.  
Interviewers: unknown  
Interview date: October 9, 1984  
Number of schedules: 1  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**HALLIBURTON SERVICES, Duncan, OK**  
Will interview DECEMBER 1984, MAY 1985 grads with BS/MS/PhD in Chemical Engineering, MS/PhD in Chemistry for R&D challenges in chemical, process and application techniques for the oil & gas producing industries; Will interview December 1984, May 1985 grads with BS/MS/PhD in Electrical Engineering, Computer Science for R&D in the area of electro-mechanics, physical research & well logging, measurement & control instruments and computer applications; will interview December 1984, May 1985 grads with BS/MS in Mechanical Engineering for Tools & Research Engineering: creative research, design, prototype testing and development of downhole mechanisms used in oil/gas well servicing operations. U.S. CITIZENSHIP OR LEGAL PERMANENT RESIDENCY REQUIRED.  
Location: Duncan, OK  
Interviewers: unknown  
Interview date: October 9, 1984  
Number of schedules: 1-BS/MS/PhD in ChE, Chem  
1-BS/MS in EE, Comp Sci  
1-BS/MS in ME  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**KANSAS POWER & LIGHT COMPANY, Topeka, KS**  
Will interview DECEMBER 1984 grads with BS in Electrical Engineering for Division Engineer (Distribution) - responsible for the maintenance & design of the electrical distribution systems and some sub-transmission. Field work is 50% of job; BS/Electrical Engineering for Relay Engineer (System Protection). Requires drafting ability and travel to field locations. Additional details will be available at time of signups. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: Manhattan, Emporia & Lawrence, KS (for Div. Engr.)  
Topeka, KS (for Relay Engr.)  
Interviewer: Marc Ramirez  
Interview date: October 9, 1984  
Number of schedules: 1  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**MARATHON OIL COMPANY, Findlay, OH**  
Will interview DECEMBER 1984 grads with BS in Petroleum Engineering for opportunities in various areas including reservoir, drilling, process & production engineering. MUST BE PERMANENT RESIDENT.  
Location: Texas, Louisiana & Illinois  
Interviewers: unknown  
Interview date: October 9, 1984  
Number of schedules: 1  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**PRATT & WHITNEY AIRCRAFT, East Hartford, CT (Div. of United Technologies)**  
Will interview DECEMBER 1984 grads with BS/MS in Metallurgical Engineering for Materials Engineering Trainee. The Materials Engineer develops new materials and alloys and studies the application of materials for optimum use in gas turbine engines. Areas of specialization: casting development, properties of alloys, creep and stress rupture, failure analysis, high temperature coatings and ceramics. U.S. CITIZENSHIP REQUIRED.  
Location: West Palm Beach, FL  
Interviewer: unknown  
Interview date: October 9, 1984  
Number of schedules: 1  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**PROFESSIONAL SERVICES INDUSTRIES, INC., Oak Brook, IL**  
Will interview DECEMBER 1984 grads with BS/MS in Civil Engineering for Staff Engineer. U.S. CITIZENSHIP REQUIRED.  
Location: U.S.  
Interviewer: unknown  
Interview date: October 9, 1984  
Number of schedules: 1  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**U.S. INDUSTRIAL CHEMICALS CO., Tuscola, IL**  
Will interview DECEMBER 1984, MAY 1985 grads with BS/MS in Chemical Engineering for process performance studies, diversified process design improvement, direction of plant test runs, surveillance to maintain and improve product quality, etc.; BS/MS in Electrical Engineering for analyzing and determining control needs, designing instr. loops, selecting component instr. & trouble-shooting instr. problems; BS/MS in Metallurgical Engineering for insp. of equipment, met. failure & corrosion analysis, & materials of const. for h.p. machinery & piping; BS/MS in Mechanical Engineering for maintenance problem solving, equip. studies and failure analysis, design changes. MUST BE PERMANENT RESIDENT.  
Location: Tuscola, IL  
Interviewer: unknown  
Interview date: October 9, 1984  
Number of schedules: 1  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

**ILLINOIS POWER COMPANY, Decatur, IL**  
Will interview DECEMBER 1984, MAY 1985 grads with BS/MS in Electrical Engineering for system design, planning & data processing. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: Decatur, IL  
Interviewer: unknown  
Interview date: October 9, 1984  
Number of schedules: 1  
Priority signup: September 24, 1984  
Regular signup: September 25, 1984

see Placement page 11

## Undergrads asked to submit assistance projects submitted by Alumni and Development Office

All UMR undergraduate students are encouraged to submit projects for the MSM-UMR Alumni Association's Educational Assistant Program. Selected projects will be carried on during this school year.

"Projects have been funded in a wide variety of areas here at UMR," said Larry Allen, assistant director of alumni activities. "Students work see Projects page 12

## ISC kicks off new year

by Rajpal Abeynayake

The International Students Club of UMR held its first meeting for the year of 1984-85 in the Meramec Room, University Center West last Friday. In the absence of the president, Dr. Jeff Joseph the vice-president of the Association conducted the proceedings. It was noted by Dr. Joseph and subsequently by others present that the past year, barring a few successful projects, was characterized by lack of participation by the many foreign students of UMR. An appeal goes out to all foreign students to make themselves aware of the ISC, since insufficient publicity could have been one of the probable causes of the lack of response. The ISC, besides bringing the many foreign students together could also be of help to the many freshmen who are new to UMR and new to the United States to "find themselves if they feel lost."

The new office bearers who were elected on Friday promise a variety of social activities plus participation in intramurals for those interested. Regular meetings will be held, and all activities will be given publicity in the Miner and campus bulletin boards. So watch out for those ads, and be there! (The office bearers of the ISC for 1984-85:

Mesut Muslim-President  
Jeff Joseph-Vice-President  
Michael Odeh-Secretary  
John Underwood-Treasurer  
Bassem Mahzowmi-Executive Officer  
Adan Aliani-Executive Officer.)



**SUB PRESENTS**  
**G. Gordon Liddy**  
**Lecture**  
Fri. Sept. 21, 1984  
Multi-Purpose Bldg

**8:00 PM**  
**\$1 Faculty**  
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**Banquet Facilities Available**  
**Men's Night-Wednesday**  
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**Chicken Fried Steak**  
**3.99**

We smother our delicious, golden Chicken Fried Steak with creamy country gravy and serve it with your choice of golden French Fries or Baked Potato and Stockade Toast.

Includes salad bar and drink

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A big, juicy Chopped Steak, cooked to your specifications, served with a choice of golden French Fries or a big steamy Baked Potato and Stockade Toast.

Includes salad bar and drink

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Every Sunday 4-10 PM  
FREE CONE WITH EACH MEAL



# Placement

from page 10

**EXXON COMPANY, USA, Houston, TX**  
Will interview DECEMBER 1984, MAY 1985 grads with BS/MS in Chemical, Mechanical, Petroleum, Geological Engineering for engineering positions, production, marketing, refining, and research & development. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED. G.P.A. REQUIREMENT: PREFER 3.0 OR ABOVE.  
Location: nationwide  
Interviewers: unknown  
Interview date: October 10, 1984  
Number of schedules: 2  
Priority sign-up: September 25, 1984  
Regular sign-up: September 26, 1984  
NOTE: STUDENTS SHOULD BRING COMPLETED COPY OF EXXON APPLICATION AND COPY OF TRANSCRIPT TO INTERVIEW WITH THEM. (EXXON APPLICATIONS WILL BE AVAILABLE AT TIME OF SIGNUPS; TRANSCRIPT MUST BE OBTAINED FROM THE REGISTRAR'S OFFICE).

**HARRIS CORPORATION, Melbourne, FL**  
Will interview DECEMBER 1984 grads with BS in Electrical Engineering for Electrical Engineer: design digital or analog circuits or high technology broadcast systems including audio, video, RF, and antenna products. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED. Location: Quincy, IL (Broadcast Div.)

Will interview DECEMBER 1984 grads with BS/MS/PhD in Electrical Engineering for Govt. Systems Sector in areas of RF, antennas, modems, systems, digital/analog design, electro-optics, software development, reliability, test, quality assurance, production. 3.0 OR HIGHER G.P.A. REQUIRED. U.S. CITIZENSHIP REQUIRED. Location: Melbourne, FL  
Will interview DECEMBER 1984 grads with BS/MS/PhD in Computer Science with engineering and scientific applications background for software development - design, integration and testing. PREFER 3.0 OR HIGHER G.P.A. U.S. CITIZENSHIP REQUIRED. Location: Melbourne, FL (Government Systems Sector)

Will interview DECEMBER 1984 grads with BS/MS in Electrical Engineering/Computer Science for Marketing-Steps (Special Training & Experience in Professional Sales). STEPS is a ten month training program for students with the right mix of technical background and personal savvy who are interested in selling high technology systems. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: nationwide  
Interviewers: unknown  
Interview date: October 10, 1984  
Number of schedules: 4 (as listed above)  
Priority sign-up: September 25, 1984  
Regular sign-up: September 26, 1984

NOTE: MAY 1985 GRADS MAY SIGN ON BACK-UP LIST ONLY; THEY WILL BE CALLED BY CAREER DEVELOPMENT OFFICE IF SCHEDULE DOES NOT FILL WITH DECEMBER 1984 GRADS.

**ETHYL PETROLEUM ADDITIVES DIVISION (formerly Edwin Cooper Div.), Saugat, IL**  
Will interview DECEMBER 1984 grads with BS/MS in Chemical Engineering for Process Engineer (Technical Services); BS/MS in Chemical Engineering or Chemistry for Process Engineer or Process Chemist. MUST HAVE U.S. CITIZENSHIP OR PERMANENT VISA.  
Location: Saugat, IL plant  
Interviewers: unknown  
Interview date: October 9, 1984  
Number of schedules: 1-BS/MS/ChE  
1-BS/MS ChE, Chemistry  
Priority sign-up: September 24, 1984  
Regular sign-up: September 25, 1984

**INTERNAL REVENUE SERVICE, Houston, TX**  
Will interview on Oct. 10, 11, 1984. Information is not available at this time.

**KIEWIT MINING & ENGINEERING CO., Omaha, NE**  
Will interview MAY 1985 grads with BS in Mining, Civil, Mechanical, Geological, Electrical Engineering for entry level engineering related to development and operations of surface coal mines. Electrical and mechanical engineers involved in equipment and facilities maintenance. MUST HAVE U.S. CITIZENSHIP.  
Location: Wyoming, Montana, Nebraska  
Interviewers: unknown  
Interview date: October 10, 1984  
Number of schedules: 2  
Priority sign-up: September 25, 1984  
Regular sign-up: September 26, 1984

**SOUTHWESTERN BELL, St. Louis, MO**  
Will interview December 1984, May 1985 grads with BS/MS in Applied Math, Computer Science, Electrical, Mechanical, Civil Engineering for general management and engineering positions; programming & systems administrative positions. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
G.P.A. REQUIREMENT: UPPER HALF GRADS REQUIRED TO SIGN ON SCHEDULE; IF YOU DO NOT MEET THESE QUALIFICATIONS, SIGN ON THE BACK-UP LIST ONLY.  
Location: nationwide  
Interviewers: unknown  
Interview dates: October 10, 11, 1984  
Number of schedules: 3 ea day  
Priority sign-up: September 25, 1984  
Regular sign-up: September 26, 1984

**U.S. ARMY CORPS OF ENGINEERS-WATERWAYS EXPERIMENT STATION, Vicksburg, MS**  
Will interview DECEMBER 1984, MAY 1985 grads with BS/MS in Civil Engineering for planning, design, construction, and operations. Specialties include hydraulics, structures, soils & materials. (CIVIL SERVICE GS 5-7 GRADE LEVELS). U.S. CITIZENSHIP REQUIRED.  
Location: Vicksburg, MS  
Interviewers: unknown  
Interview date: October 10, 1984  
Number of schedules: 1  
Priority sign-up: September 25, 1984  
Regular sign-up: September 26, 1984

**MAYTAG COMPANY, Newton, IA**  
Will interview DECEMBER 1984, MAY 1985 grads with BS in Mechanical Engineering for R&D and a variety of mfg.-related positions. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: Newton, IA  
Interviewers: unknown  
Interview date: October 11, 1984  
Number of schedules: 2  
Priority sign-up: September 26, 1984  
Regular sign-up: September 27, 1984

**DATA GENERAL, Westboro, MA**  
Will interview DECEMBER 1984 grads with BS/MS in Computer Science, Electrical, Mechanical Engineers for Hardware/Software R&D. Positions available in micro-processor base terminals, and graphics hardware & software. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED. STUDENTS ARE REQUESTED TO BRING A COPY OF THEIR TRANSCRIPT TO THE INTERVIEW. (PLEASE OBTAIN FROM THE REGISTRAR'S OFFICE).  
Location: Austin, TX  
Interviewers: unknown  
Interview date: October 11, 1984  
Number of schedules: 1  
Priority sign-up: September 26, 1984  
Regular sign-up: September 27, 1984

## What do

**Phil Collins Sammy Hagar  
Willie Nelson Tina Turner**

and

**Elvis Costello**

**Have in Common?**

**They're all available from**

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**ALUMINUM COMPANY OF AMERICA (ALCOA), Pittsburgh, PA**  
Will interview DECEMBER 1984, MAY 1985 grads with BS/MS in Electrical, Mechanical, Metallurgical Engineering, Engineering Management. Electrical Engineers work in such areas as plant control systems, process computer control, power systems and new technology design and implementation; Mechanical Engineers assignments may range from minor equipment revisions to multi-million dollar installations; Metallurgical Engineers begin at a fabricating plant involved in either process control of ingot casting, rolling, forging, or extruding operations - also involved in testing and inspecting aluminum products both inhouse and at customers' facilities; Engineering Management for entry level IE work on method and cost improvements, and resource optimization. Additional information will be posted with signups. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: see job description for specific locations  
Interviewers: unknown  
Interview date: October 11, 1984  
Number of schedules: 1-EE  
1-ME  
1-Met Engr.  
1-Engr. Mgt.  
Priority sign-up: September 26, 1984  
Regular sign-up: September 27, 1984

**CENTURY ELECTRIC, St. Louis, MO**  
Will interview MAY 1985 grads with BS in Electrical Engineering for Product Development, BS in Electrical, Mechanical Engineering for Sales/Marketing. All college graduates will enter Century's engineering training program, The Technical Development Program, for 18-24 months. During this time, the individual will receive 4 assignments, each providing immediate responsibility as well as career development. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
G.P.A. REQUIREMENT: 3.0. IF YOU DO NOT MEET THIS REQUIREMENT, YOU MUST SIGN ON THE OVERFLOW LIST.  
Location: St. Louis; Sales Offices are located throughout the U.S.  
Interviewers: unknown  
Interview date: October 11, 1984  
Number of schedules: 1  
Priority sign-up: September 26, 1984  
Regular sign-up: September 27, 1984

## Summer

Signups for the following companies will be held in the Buehler Building, 9th & Rolla Streets. PLEASE USE THE ROLLA STREET WEST DOOR. ALL SUMMER SIGNUPS WILL BE HELD AT THIS LOCATION. Signups for morning interviews will be held from 8:00-11:00 a.m.; signups for afternoon interviews will be held from 1:00-3:30 p.m.

ALL STUDENTS ARE REQUIRED TO BRING THE CAMPUS INFORMATION FORM (RESUME) WITH THEM AT TIME OF SIGNUP FOR SUMMER INTERVIEW OR BACK-UP SHEET. Employment candidates should have registration forms on file with Career Development prior to sign-ups.

**PROCTER & GAMBLE COMPANY, Cincinnati, OH**  
Will interview CHEMICAL ENGINEERS one year from final degree, BS or MS for summer intern program (R&D Product Development). MUST HOLD PERMANENT IMMIGRANT VISA.  
Location: Cincinnati, OH  
Interviewer: A.R. Spector  
Interview date: October 10, 1984  
Number of schedules: 1 - afternoon interviews; SIX (6) INTERVIEW OPENINGS AFTERNOON SIGNUPS ONLY  
SIGNUP DATE: SEPTEMBER 25, 1984

**MARATHON OIL COMPANY, Findlay, OH**  
Will interview PETROLEUM ENGINEERS starting their Junior or Senior year in the Fall for opportunities in various areas including reservoir, drilling, process, production engineering. MUST HAVE PERMANENT VISA.  
Location: Texas, Louisiana, & Illinois  
Interviewers: unknown  
Interview date: October 10, 1984  
Number of schedules: 1 - EIGHT (8) INTERVIEW OPENINGS FOR MORNING SIGNUPS SIX (6) INTERVIEW OPENINGS FOR AFTERNOON SIGNUPS  
SIGNUP DATE: SEPTEMBER 25, 1984

see Placement page 12

# Long-range planning crucial to UMR

ROLLA, Mo. -- Doug Russell, vice president of the University of Missouri Board of Curators, believes that good things can result from a planning process that involves all of an institution's constituencies.

"Long-range planning is as valuable in activity for the individual components of a system as it is for the system as a whole," said Russell, who is chairman of the Board of Curators Long Range Planning Steering Committee.

"Everyone involved in such an endeavor gains a better understanding of the institution's workings and goals," he added. "This, in turn, makes for a stronger institution."

The process which the Board of Curators developed for conducting long-range planning for the University of Missouri system was designed to allow maximum input into the planning.

"It was felt that the steering committee could best fulfill its goals by establishing liaison committees with board-based memberships that would

accept information and suggestions from sources both inside and outside the University," Russell explained. "I think the process has been a success."

He stressed that long-range planning needs to be an ongoing activity for the University. "Although the steering committee will complete the business it has at hand later this year, the long-range planning process should not stop there," he said. "It must continue if we are to meet the challenges of the future."

"This is also a good way for the University to make sure that what it is doing is in the best interest of the people it is serving," he continued. "In this case, these people are the taxpayers of Missouri."

Russell feels that the University is important to Missouri's future. "The education, research and other services provided by the University of Missouri benefit the state as well as society as a whole," he said. "And when you are talking about research, the University of Missouri-

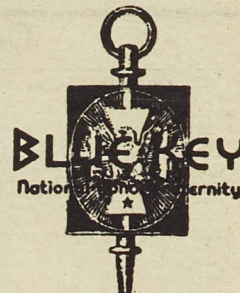
Rolla is a key factor."

Russell who is vice president of the Druham Company, a Lebanon, Mo., firm that manufactures electrical meter enclosures, said that "Lebanon has very close ties to UMR because of the many industries in the city. The economic development of the state as a whole depends on the continued support of engineering education and research."

Russell was appointed to the Board of Curators in 1982. "Serving on the Board requires a lot of time and work," he said, "but I wouldn't trade the experience for anything."

One of the highlights of serving on the Board for Russell has been the opportunity to meet people throughout the state and develop new friendships.

"In the course of my duties I have been able to meet a great many friends of the University of Missouri," he said. "These include faculty, staff and students as well as alumni and interested persons from outside the University."



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# Placement

from page 11

## Co-op

TUESDAY, OCTOBER 2, 1984 UNITED STATES GEOLOGICAL SURVEY (USGS)  
 WEDNESDAY, OCTOBER 3, 1984  
 Location: Rolla, Missouri  
 Interviewing: C.E., C.Sc.  
 Requirements: 2.0 GPA or above, Sophomore level or above, American Citizenship required  
 SIGN-UP DATE: TUESDAY, SEPTEMBER 18, 1984  
 TWO SCHEDULES CONSISTS OF 26 INTERVIEW TIMES - 14 AM, 12 PM.

WEDNESDAY, OCTOBER 3, 1984 EMERSON ELECTRIC CO. ELECTRONICS & SPAC  
 Location: St. Louis, Missouri  
 Interviewing: E.E.  
 Requirements: 3.0 GPA or above, Sophomore or above, American Citizenship required  
 SIGN-UP DATE: WEDNESDAY, SEPTEMBER 19, 1984  
 ONE SCHEDULE CONSISTS OF 12 INTERVIEW TIMES - 6 AM, 6 PM.

THURSDAY, OCTOBER 4, 1984 GENERAL MOTORS FAIRFAX DIVISION  
 Location: Kansas City, Kansas  
 Interviewing: E.E., M.E.  
 Requirements: 3.0 GPA or above, Juniors or above, American Citizenship required.  
 SIGN-UP DATE: FRIDAY, SEPTEMBER 21, 1984  
 ONE SCHEDULE CONSISTS OF 13 INTERVIEW TIMES - 7 AM, 6 PM

FRIDAY, OCTOBER 5, 1984 EMERSON ELECTRIC MOTOR DIVISION  
 Location: St. Louis, Missouri  
 Interviewing: E.E., M.E., Eng.Mgmt.  
 Requirements: 2.0 GPA or above, Sophomores or above, Permanent Visa  
 SIGN-UP DATE: MONDAY, SEPTEMBER 24, 1984  
 SCHEDULE CONSISTS OF 6 INTERVIEW TIMES - 6 PM

TUESDAY, OCTOBER 9, 1984 PAUL MUELLER COMPANY  
 Location: Springfield, Missouri  
 Interviewing: Ch.E., M.E., Eng.Mech.  
 Requirements: 2.9 GPA or above, American Citizenship  
 SIGN-UP DATE: MONDAY, SEPTEMBER 24, 1984  
 ONE SCHEDULE CONSISTS OF 11 INTERVIEW TIMES - 5 AM, 6 PM

TUESDAY, OCTOBER 9, 1984 SUNNEN PRODUCTS COMPANY  
 Location: St. Louis, Missouri  
 Interviewing: Cer., E.E., M.E., Met.E.  
 Requirements: 3.0 GPA or above, Permanent Visa  
 SIGN-UP DATE: TUESDAY, SEPTEMBER 25, 1984  
 ONE SCHEDULE CONSISTS OF 11 INTERVIEW TIMES - 5 AM, 6 PM

TUESDAY, OCTOBER 9, 1984 JOHNSON CONTROLS  
 Location: St. Louis, Missouri  
 Interviewing: E.E.  
 Requirements: 3.0 GPA or above, American Citizenship  
 SIGN-UP DATE: WEDNESDAY, SEPTEMBER 26, 1984  
 ONE SCHEDULE CONSISTS OF 12 INTERVIEW TIMES - 6 AM, 6 PM

WEDNESDAY, OCTOBER 10, 1984 THE PROCTER & GAMBLE COMPANY  
 Location: Cape Girardeau, Missouri  
 Interviewing: Ch.E., C.E., E.E., Eng.Mgmt., M.E.  
 Requirements: 2.0 GPA or above, Permanent Visa  
 SIGN-UP DATE: THURSDAY, SEPTEMBER 27, 1984  
 ONE SCHEDULE CONSISTS OF 14 INTERVIEW TIMES - 8 AM, 6 PM

WEDNESDAY, OCTOBER 10, 1984 DIGITAL EQUIPMENT CORPORATION  
 THURSDAY, OCTOBER 11, 1984  
 Location: St. Louis, Missouri  
 Interviewing: Math., C.Sc., E.E.  
 Requirements: 3.0 GPA or above, Juniors or above, Permanent Visa  
 SIGN-UP DATE: FRIDAY, SEPTEMBER 28, 1984  
 TWO SCHEDULES CONSISTS OF 22 INTERVIEW TIMES - 10 AM, 12 PM

MONDAY, OCTOBER 15, 1984 DELCO ELECTRONICS (GENERAL MOTORS)  
 Location: Kokomo, Indiana  
 Interviewing: Ch.E., Chem., C.Sc., E.E., M.E., Physics  
 Requirements: 3.0 GPA or above, American Citizenship  
 SIGN-UP DATE: MONDAY, OCTOBER 1, 1984  
 ONE SCHEDULE CONSISTS OF 11 INTERVIEW TIMES - 5 AM, 6 PM

TUESDAY, OCTOBER 16, 1984 TAMKO ASPHALT PRODUCTS  
 Location: Joplin, Missouri  
 Interviewing: E.E., M.E.  
 Requirements: 2.8 GPA or above, American Citizenship  
 SIGN-UP DATE: TUESDAY, OCTOBER 2, 1984  
 ONE SCHEDULE CONSISTS OF 13 INTERVIEW TIMES - 7 AM, 6 PM

TUESDAY, OCTOBER 23, 1984 MCDONNELL AIRCRAFT COMPANY  
 WEDNESDAY, OCTOBER 24, 1984  
 Location: St. Louis, Missouri  
 INFORMATION AVAILABLE ON THE SPECIAL NOTICE BULLETIN  
 NOTE: YOU WILL NEED A COPY OF THE RESUME YOU TURNED IN AT THE CO-OP OFFICE PREVIOUSLY. IF YOU DID NOT SAVE A COPY, PLEASE CHECK AT THE CO-OP OFFICE AND PICK UP A COPY BEFORE THE SIGN-UP DATE ON SEPTEMBER 20TH.

OCTOBER, 1984 IBM CORPORATION  
 Location: Kingston, New York  
 Interviewing: C.Sc., E.E., Eng.Mgmt., M.E., Psychology  
 Requirements: 2.0 GPA or above  
 RESUMES ONLY. LIMIT (24) WILL BE SENT TO COMPANY UPON REQUEST FROM STUDENT  
 SIGN-UP DATE: THURSDAY, OCTOBER 4, 1984

WEDNESDAY, OCTOBER 17, 1984 NATIONAL STEEL CORPORATION, GRANITE CITY STEEL  
 Location: Granite City, Illinois  
 Interviewing: Met.E.  
 Requirements: 2.8 GPA or above, Sophomores or above  
 SIGN-UP DATE: MONDAY, OCTOBER 8, 1984  
 SCHEDULE CONSISTS OF 6 INTERVIEW TIMES - 6 PM

TUESDAY, OCTOBER 23, 1984 INLAND STEEL COMPANY  
 Location: East Chicago, Indiana  
 Interviewing: Ch.E., Chem., E.E., M.E., Met.E.  
 Requirements: 2.7 GPA or above, Sophomores or first half Juniors, American Citizenship and/or Perm. Visa  
 SIGN-UP DATE: WEDNESDAY, OCTOBER 10, 1984  
 ONE SCHEDULE CONSISTS OF 13 INTERVIEW TIMES - 7 AM, 6 PM

TUESDAY, OCTOBER 16, 1984 MONSANTO COMPANY  
 WEDNESDAY, OCTOBER 17, 1984  
 Location: St. Louis, Missouri  
 Interviewing: C.Sc.  
 Requirements: 3.0 GPA or above, Sophomores or above, Permanent Visa  
 SIGN-UP DATE: WEDNESDAY, OCTOBER 3, 1984  
 FOUR SCHEDULES CONSISTS OF 28 INTERVIEW TIMES - 16 AM, 12 PM  
 ONE HOUR INTERVIEWS  
 ORIENTATION HELD ON MONDAY, OCTOBER 15, 1984, UNIVERSITY CENTER EAST ROOM 214 MARK TWAIN ROOM FROM 3:00 - 4:00 pm.

TUESDAY, OCTOBER 30, 1984 PEABODY COAL COMPANY  
 Location: St. Louis, Missouri  
 Interviewing: C.E., E.E., M.E., Mining  
 Requirements: 2.5 GPA or above, American Citizenship not required but preferred  
 SIGN-UP DATE: TUESDAY, OCTOBER 16, 1984  
 TWO SCHEDULES CONSISTS OF 24 INTERVIEW TIMES - 12 AM, 12 PM

NOTE: SIGN-UPS FOR THE OCTOBER LIST HAVE BEEN CHANGED. ALL SIGN-UPS WILL BE AT 7:30 AM. THERE WILL BE NO MORE PM SIGNUPS. AT 7:30, YOU CAN SIGN-UP FOR A MORNING OR AFTERNOON TIME.

BACK-UP LISTS WILL BE AVAILABLE FOR SIGNUPS ON THE SAME DAY AS REGULAR SIGNUPS. WHEN REGULAR SCHEDULES FILL, YOU MAY GET YOUR NAME ON THE BACK-UP LIST. ONLY 12 NAMES WILL GO ON THE BACK-UP LIST. STUDENTS WILL NEED TO CHECK AT THE CO-OP OFFICE TO SEE IF THE COMPANY HAS OPENED UP ANY MORE SCHEDULES.

NOVEMBER LIST WILL BE AVAILABLE ON OCTOBER 17TH.  
 SIGN-UPS FOR CO-OP LOCATED IN 101 BUEHLER BLDG.  
 SIGN-UP TIMES: 7:30 AM.

PLEASE CHECK WITH THE CO-OP OFFICE FREQUENTLY FOR ADDITIONS OR DELETIONS.

## G&D STEAK HOUSE

7 oz. Top Sirloin Special.....	\$4.72	
8 oz. Chuck.....	\$3.89	
6 oz. Ribeye.....	\$4.20	FREE ICE
7 oz. Ham Steak.....	\$4.16	CREAM
8 oz. Filet.....	\$4.77	WITH
10 oz. Top Sirloin.....	\$6.08	EVERY
12 oz. T-Bone.....	\$7.97	MEAL
12 oz. K.C. steak.....	\$6.61	

All steak dinners include bake potato, Texas toast, and salad bar  
 Open 7 days a week, 11:00 am - 9:00 pm

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Sunday is a free day for All Saturday Rentals  
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## FOR SALE

For sale—'74 Ford Maverick. \$350. 364-8140

7 cu. ft. refrigerator, great for student rooms, excellent condition, \$50. Call 341-3561 after 5 p.m. Ask for Brad.

For sale, one study desk and dresser set, in very good condition. If interested call Anne at 364-0763.

Several bicycles for sale cheap. Call John Keller in the evenings at 364-6886.

## FOR RENT

For rent, 2 bedroom apartments, 1 bedroom apartments, efficiency apartments, and student rooms available for this year. Call John Keller at 364-6886 after 7 p.m.

## MISC.

### UMR Toastmasters Club . . .

searching for those individuals who:  
desire to enhance their oral communication skills;  
want to expand their leadership qualities;  
want to meet and learn from others;  
want to have fun doing so!!  
Come to G-6 H-SS EVERY THURSDAY at 5:30 p.m.

LOST HP 15C at Blood Drive on Wednesday, Sept. 5. Please get in touch with Tracy at 364-3257 if you know of the whereabouts of this calculator.

### Attention all SWE members

and all women enrolled in an engineering major, computer science, or any related field. The Society of Women Engineers is now collecting resumes for the '84-'85 Resume Book. Please pick up resume forms at the Minority Engineering Office, 204 Rolla Building, or SWE meetings, or call Michele Meyer at 341-2633 for information. Resume forms need to be completed by Oct. 1, 1984.

If you are interested in being considered for **Who's Who Among Students in American Universities** you may pick up an application at the Student Activities Office, 202 Rolla Building. Deadline for turning in applications is September 28, 1984.

## PARTY LINE

### Sig Ep's Chippendale Casino

Try your luck at gambling—and you just might walk away with a hunk. All the girls are invited to play at Sig Ep's Casino Night Little Sister Rush Party Sat. Sept. 15, 8 p.m. to 2. Then after hitting the Jackpot a couple of times, use your winnings to buy a Sig Ep "Chippendale." The auction of these guys will start around 11:15 p.m. So come early to win as much as you can. Cold refreshments and dancing will be there as always.

Sig Ep Little Sister "Chippendale" Rush Party. 8:00 to 1:00. Sigma Phi Epsilon, 801 Park St. Chippendale Auction at 11:15.

## WANTED

You have an Econ. 111 book, The Microeconomy Today by Schiller, and would like to sell it, I would like to buy it. 341-3495.

## PERSONALS

tene.

Thanks for the great times and love and caring and, and ...

Your Rat

ADIES.

I'm 25, middle class, and full of laughs, not to mention a very warm and sensitive guy. I'm also sick and tired of spending every weekend at overrated frat parties and singles bars. If you feel the same way too, don't waste a minute in contacting me at P.O. Box 1669

Guildmaster:

The protection price has been paid, some in blood and some in gold. Most chose gold. Will report details in the cellar.

Cutthroat

Now accepting applications for Hayride Dates. Resumes should be submitted by next Friday. Interviews will be held on the 19th. There are two interview schedules of 12 each.

The Threeman Room

Guildmembers.

Things go well. There are none daring enough to challenge us. The merchants are knuckling under, and we have few guards yet to be bought. To finalize the grip of our iron fist, meet at the graveyard.

Dear Kevin & Tom,

Thanks for coming to my rescue that Friday night. Maybe I'll see you again or you could call 364-2039.

Fellow Druids,

It is that time of year again when the Druids of the University of Missouri (DUMR) begin their Quest for a virgin sacrifice to be offered on Witches Eve. All prospective applicants must be female and available for an extended leave of absence. Please submit any applications to the center of Stonehenge by midnight Oct. 10 to be considered.

## Exhibit coming

source:OPI

Rolla, Mo.—"Thomas Hardy's England," a collection of 36 paintings, watercolors and etchings, will be on display from 8 a.m.-4 p.m. Sept. 13-Oct. 4 in the lobby of the University Center-West at the University of Missouri-Rolla.

The exhibit, which is free and open to the public, consists of works by Frederick Whitehead, an acquaintance of Hardy's. In his works Whitehead tried to capture the Dorsetshire countryside that Hardy immortalized in his novels as "Wessex."

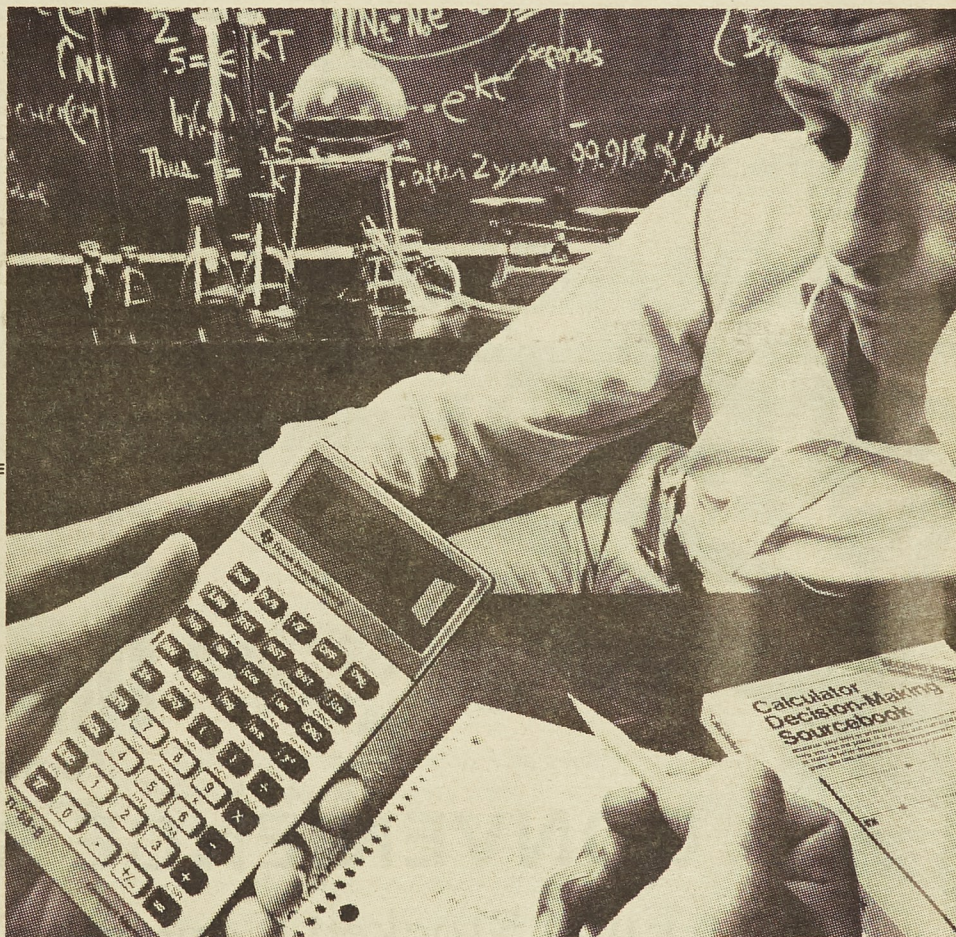
The exhibit is sponsored by the UMR Student Union Board (SUB) with support from the Missouri Arts Council.

For further information contact John Watson, program coordinator for SUB, 217 University Center-West, phone 341-4220.

The Guildmaster

Kim

Son of Oak



## Get to the answers faster. With the TI-55-II.

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## Humor:

## Van Man

by S. Harvey  
E. Grannemann

Van Man, a '69 Chevy with four on the floor, two in the door, and five on the dash, was the ultimate in cool. Van Man was the most street-wise vehicle around. No one messes with Van Man - not unless you want his flunkies to rip your doors off.

But Van Man has compassion too. One day he spied Kay Car, a yellow '83 hamster-under-the-hood economy car. She was obviously a young innocent; the Klennex box clipped to her visor was a dead giveaway. Kay was crying.

"Hey babe," said Van Man. "Like, what's eatin' you?"

"This is the first time I've been out of the showroom," she sobbed.

Van man pulled closer and put his door around her. "Hey babe, stay cool and turn off your windshield wipers. Just stick with me an' you'll be OK kid."

"Really?"

"Sure. I've been around this ol' world a long time you know."

"Yeah?"

"Uh-huh. I guess you've heard that I move kinda fast, but it's a lot of fun."

"Well, I don't know..."

"Hey, don't worry! I'm your friend, right?"

"Yeah," she said uncertainly, "I guess so."

"So trust me!" he chuckled through his carburetor.

"Well uh, OK."

"Great! Say Kay, have you ever... (Van Man lowered his voice) tried leaded gasoline?"

Kay gasped. "Oh Never! They told me at the factory that stuff's dangerous!"

"Aw c'mon," Van Man laughed condescendingly. "Do you believe everyting they tell you? They just say that so you won't try it. Leaded gas is great stuff! Why, I've tried everything from sniffing nitrous oxide to dropping aviation gas. It hasn't hurt me a bit!"

"You've dropped aviation fuel?"

"Of course!"

"Like, it was a great trip. My engine felt really weird. Everyting went by real fast."

Abruptly, the two of them stopped their conversation. Kay Car's human was coming to drive her somewhere. Van Man winked his headlight and gave Kay a pat on the bumper before she was on her way.

Moments later, a red Audi drove by. "Wow! Look at that Fox!" thought Van Man.

"Hey baby! he called out to her. "What do you say me an' you pick up a six-pack of octane boosters and go park somewhere before we go crash at my place?"

"Take a wreck, creep!"

Van Man didn't care. He was too cool to care. "That chick needs some antifreeze," he thought.

## Rockworld Sweepstakes coming soon

by Rajpal Abeynayake

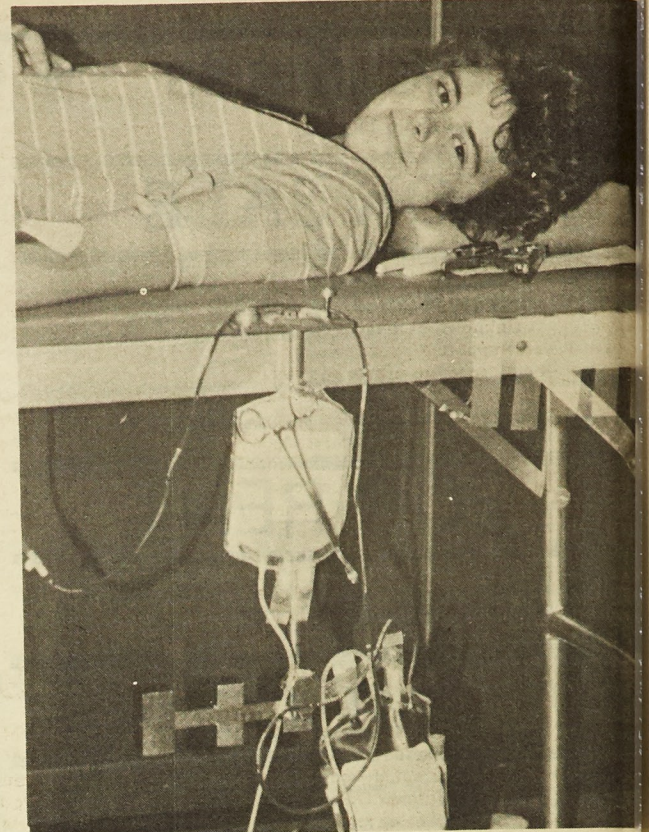
How would you like to see some of the best videos in rock, country-western, rhythm and blues, jazz and punk while on your way to lunch? Rockworld, a popular weekly music video show provided exclusively to college campuses across the United States free of charge will be showing Monday and Tuesday from 8 to 5 p.m. in the University Center West and Wednesday thru Friday at TJ Hall.

And whats more, the Rockworld College Music Video Network will kick off this fall with its biggest prize give-away ever. You could win over 250 major prizes including Windjammer Cruises, VARS Whitewater Rafting Adventures and Bic Sailboards in Rockworld's College-only sweepstakes.

Contest entry boxes will be placed near the Rockworld viewing locations on campus to make it easy for you to enter the contest, and enter as often as you wish.

You can enter the first sweepstakes by writing down your name, address, telephone number and school name and mailing it to: Rockworld, 1698 Central Avenue, Albany, New York 12205.

So be there, and enjoy some of the best rock videos around if you can't win the sweepstakes.



Is this going to hurt? "I'm in now for what it's worth, so let me give 'em a smile." Sentiments of a UMR blood donor at last week's Red Cross Blood Drive.

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**across from the Catholic Church**



# Food buying tips for students

by Sally Love

College usually begins with a time of excitement and expectation, at UMR this is followed by a feeling of inadequacy and a fear for survival. For most, survival skills are learned soon after enrollment and among those is the skill of survival on a limited budget.

Unknown to many of you who are supported by parents or who enjoy generous grants or scholarships, many students are completely self-supporting. To these persons life takes on an additional struggle.

Buying food can be a challenge never before attempted, especially if you are one of those accustomed to letting "mom" do the buying and preparing. Here are some pointers that could ease the strain on your ever-expanding brain.

Nutritionally speaking, it's best to eat all foods in the simplest form, as close to raw as possible and as fresh as possible. Vitamins and minerals are destroyed by cooking. It is less expensive to buy fresh vegetables and fruits in-season than canned or frozen foods.

The body's primary requirement is protein and it is essential for optimum functioning. Protein may include beef, poultry or pork but is also available in eggs, cheese of all kinds, yogurt, milk, peanut butter, nuts, seeds, and yes, beans. At least a third of your daily intake should consist of protein from one or a combination of the above foods.

Foods of all kinds should be cooked slowly over low heat to reduce the vitamin loss from high heat, and over-cooking should be avoided. Meats especially should be cooked just until done.

Reading labels can be a pleasant diversion from studying. Be aware that additives such as coloring or flavorings do little for your insides. Also that some foods have no real food value. Included in this list are some snack foods, such as potatoe or corn chips, soda, hot dogs, candy and alcoholic beverages. These are just empty calories, they add fat, not substance to your diet. Good snack foods include carrot

vegetables are edible raw or straight from the can—green beans or peas, to name a few. Although they taste better warmed up, they are fully cooked before canning and so are safe to eat cold.

A good rule to remember is to keep hot foods hot and cold foods cold. Bacterias that cause food poisoning thrive at room temperature. Good sources of preparation methods are the display in the fresh food section or the produce bags.

Beware of artificial ingredients in general. Foods labeled "meat flavored" or "fruit flavored" contain almost no actual food. Compare the labels on mayonnaise and salad dressing next time you visit the store.

Know the layout of the store. Foods "in the aisles" are less likely to be necessary than those around the outside—note the placement of fresh fruits and vegetables, meat, milk and bread around the outside of most stores. Stores don't need to make displays to sell these foods so they don't.

Delicatessen foods are usually higher priced than the same items in the regular store. And food always costs less at the store than prepared by the fast food people.

Remember that it's your money and it's up to you to make it work for you. Don't be lured by displays or advertising into buying food of little value. After all, what you see is not always what you get.

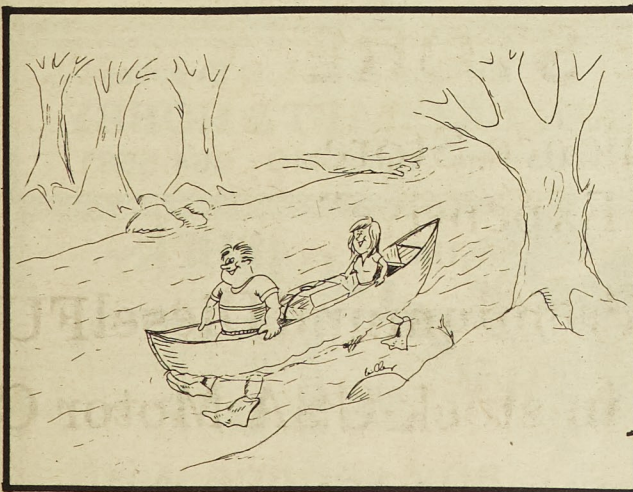
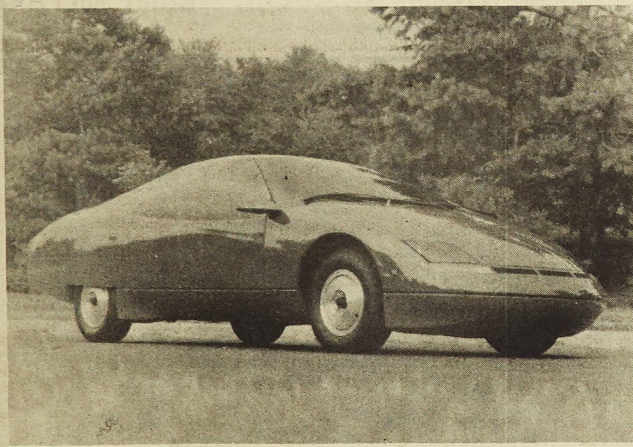
## Citation IV latest in aerodynamic design

by Rajpal Abeynayake

This sleek aerodynamic vehicle pictured here could well be your car of the future. Described by Chevrolet as "being representative of future trends in commercial automobiles", the Citation IV is the latest in advanced automotive design at Chevrolet.

UMR in front of the Mechanical Engineering building. At 7:00 p.m. the UMR Student Branch of the Society of Automotive Engineers will present Mr. Wes McCollum, Staff Engineer Advanced Design at Chevrolet, who will be speaking on "The mechanical aspects of the Citation IV prototype." Everybody is invited to view this streamlined super-car and attend the lecture (Refreshments will be served.)

The prototype Citation IV will be on display on September 19th at



## Correction

The third paragraph in the article in the August 30 issue of the *Missouri Miner* titled "UMR students overcome obstacles" should have read: Lois Highfill, a sopho-

more in psychology, carrying 16 hours and married to James Highfill, a Ph. D. candidate in engineering, finds age is not a complication. We apologize to Highfill.

### Faulkner's Beverage & Mini Mart

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364-6762

## Are You Good Enough To Join The Best In The Nuclear Field?

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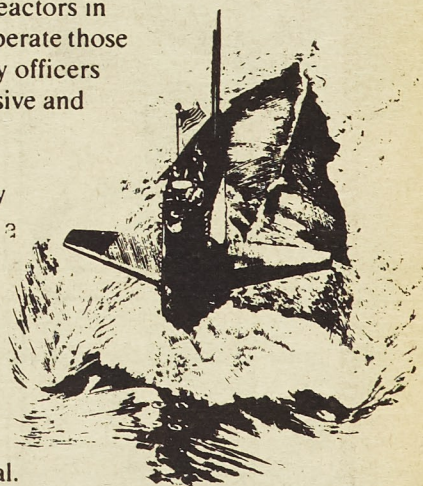
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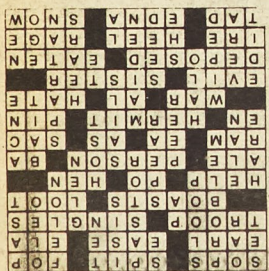


# BLOOM COUNTY

by Berke Breathed



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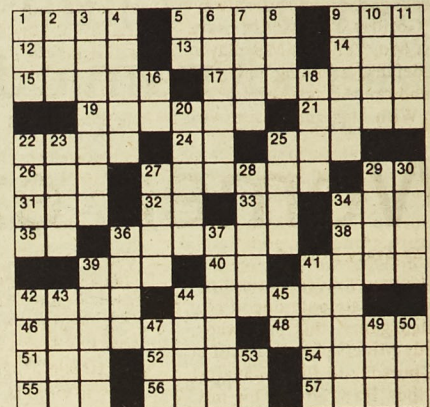
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## ACROSS

- 1 Soaks up
- 5 Part of fireplace
- 9 Dude
- 12 Nobleman
- 13 Comfort
- 14 Guido's high note
- 15 Body of Boy Scouts
- 17 One-base hits
- 19 Brags
- 21 Booty
- 22 Succor
- 24 River in Italy
- 25 Chicken
- 26 Beverage
- 27 Individual
- 29 College degree: abbr.
- 31 Male sheep
- 32 Babylonian deity
- 33 Conjunction
- 34 Algonquian Indian
- 35 Printer's measure
- 36 Recluse
- 38 Transfix
- 39 Armed conflict
- 40 Man's nickname
- 41 Detest
- 42 Mischievous
- 44 Female relative
- 46 Deprived of office
- 48 Consumed
- 51 Anger
- 52 Part of foot
- 54 Frenzy
- 55 Youngster
- 56 Girl's name
- 57 Winter precipitation

## DOWN

- 1 Deposit
- 2 Paddle
- 3 Difficulty
- 4 Sailing vessel
- 5 Compass point
- 6 Head of church parish
- 7 Egyptian goddess
- 8 Number
- 9 Criminal
- 10 Butter substitute: colloq.
- 11 Time gone by
- 16 Parent: colloq.
- 18 Secluded valley
- 20 Dance
- 22 Rabbit
- 23 Verve
- 25 Vast throng
- 27 Equal
- 28 Goes by water
- 29 Badger
- 30 Skin ailment
- 34 Undaunted
- 36 Nimbus
- 37 Earliest
- 39 Cleaned by rubbing
- 41 Listens to
- 42 Redact
- 43 Girl's name
- 44 Sow
- 45 Symbol for tellurium
- 47 Pronoun
- 49 The self
- 50 Recent
- 53 Note of scale



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# Sports

MISSOURI MINER

Thursday, September 13, 1984

Page 17

## Miners rack up second win

by Jim Harter

On an overcast afternoon last Saturday in Marshall Mo., the Football Miners racked up their second win of the early season with a 24-10 defeat over Missouri Valley. The Miners are off to their best start (2-0) since 1980 when they went undefeated (10-0). The 1984 squad dominated play and has the momentum now, venturing into this weeks game against the always tough Gorillas of Pittsburg State. Against Mo. Valley, UMR played tough defense allowing only 128 yards and ran the ball well for 316 yards. With this impressive vic-

tory, the Miners have built an 11-6-1 series record with Mo. Valley, and have a 3 game winning streak.

The scoring opened with a 10 yard run by junior Keenan Curry to put UMR on the scoreboard followed by a George Stock conversion kick. Curry contributed 48 yards on 14 carries for a productive afternoon. Coming right back in the same quarter Mike Brinkley ran 24 yards into the end zone with a Tony Walker conversion kick to start Mo. Valley's offense. Closing out the quarter, Mo. Valley converted on a Tony Walker 6 yard field goal taking a 10-7 lead into

the second quarter.

In the second quarter UMR captured the lead with a 1 yard touchdown run by junior Tom Mueller, but the extra point failed. However Mueller put the Miners in the lead for good 13-7. Mueller put forth an excellent effort with 80 yards on 17 tries.

Fired up, the Miners took a commanding lead when senior Mike Schaefer ran it in 2 yards for a touchdown, and the conversion failed. Schaefer put on an offensive show running for 102 yards on 24 attempts. George Stock booted a 26 yard field goal and junior defensive end John Frerking sacked Mo.

Valley's quarterback for a safety to close out the Miner's scoring attack. There was no scoring in the 4th quarter as the Miners triumphed 24-10.

The Miners set new single team game record. They carried the ball 78 times breaking the old record of 73 carries against NWMS in 1961. UMR also rushed for 21 first downs setting a new record. The Miner defense took the spotlight again with sophomore nose guard Dan Goldner leading the pack. Goldner had 10 tackles and two of them were for a loss of 14 yards plus one sack. One of only two starting

freshman for the Miners last year, Goldner made honorable mention M.I.A.A. last season. Goldner is a fine student in the classroom and on the gridiron. Goldner and the Miner defense gave up only 7 first downs. Senior defensive back Brian Bradley caught the Miner's first interception of the season.

Come back the Miner Magic, and witness the undefeated Miners take on Pittsburg State this Saturday afternoon. Be a part of a winning program as UMR looks to go all the way and recapture the 1984 M.I.A.A. crown.

## Women extend winning streak

by Tracy Boland

The women's soccer team managed to complete only one of two scheduled games this past week. The Lady Miners played their first game Thursday in Illinois against the Quincy Hawkettes. This past Sunday, approximately one-ninth of the scheduled match between Lindenwood College and UMR took place, and since it is this writer's policy to save the best for last, let's forget chronological order and talk about the latter game first.

As previously mentioned, the Miners were supposed to play Lindenwood on Sunday. Unfortunately, Mother Nature had other plans. Barely ten minutes into the game, streaks of lightning and heavy drizzle prompted referees to temporarily postpone the game, hoping the storm would blow over. Thirty minutes later, the storm had not only not blown over, it had gotten worse. End result: thirty soggy soccer players, countless (maybe twenty) dripping fans, a

pair of disgruntled coaches, and one cancelled soccer match.

Now for the bright and cheery news of another UMR soccer victory! The Lady Miners are on a definite roll now, having won their last two games and bringing their record this season to 2-1. Quincy Illinois was the site of the trouncing, with the Quincy Hawkettes playing the parts of the trouncees, losing to the Miners by a 4-1 score.

Rolla lept into the lead a mere

six minutes and 50 seconds into the game when sophomore Angie McEntire lifted the ball, on a corner kick, toward the goal and into the arms of the Hawkettes goalie. Into and out of, that is, for the ball bounced off of the goalie and was promptly smashed into the net by a waiting Gina Tonsi.

During the second half, after an adrenalin-boosting half-time talk by Coach McNally, the UMR players totally dominated the

Quincy team. Strong defensive work by fullbacks Laura Douglas,

ettes from making many attempts at scoring, and even allowed Douglas, Hall and Waeckerle to make occasional offensive attacks on the Quincy goal.

see page 19

## Football action begins

by Ty Van Buren

Flag football is well under way after two weeks of action. In division I, league I Sigma Phi Epsilon remains undefeated with wins over CCH (30-0) and Campus Club (36-14). Campus Club is 1-1 with their victory over Tech (55-14). Lambda Chi Alpha won their first game against Sigma Pi (9-0), and Pi Kappa Alpha defeated Tau Kappa Epsilon (21-7). In league 2, Beta Sigma Psi beat Kappa Sigma (24-7), Phi Kappa Theta defeated Alpha Phi Alpha (21-0), Sigma Nu defeated Alpha Epsilon Pi (17-7), and Kappa Alpha defeated Triangle (21-13).

In division II, league 1, TJ-North is 1-1 with their victory over Delta Tau Delta (13-10), GDI defeated TJ-North (1-0). Kappa Alpha Psi defeated Delta Tau Delta (20-14), and BSU shut out Air Force (26-0). In league 2, Delta Sigma Phi won their first game against TJ-South (1-0), Theta Xi defeated VSA (1-0) and RHA is (1-0) with their victory over Sigma Chi (13-2).

Women's Note: Flag football geared up for action this week. Tuesday, September 18 will be the first day of tennis competition.



Phi Kappa Theta moves the ball downfield in their victory over Alpha Epsilon Pi

### M-Club Athlete of the Week

The M-Club would like to honor the football team's Tim Schamel for his efforts in a 17-11 win over Missouri Western. His 9 solo tackles, 4 assisted tackles and a tackle for a loss helped him to be chose MIAA Defensive Player of the Week. Tim is a senior defensive linebacker from Kirkwood, Missouri, majoring in Mechanical Engineering.



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The UMR Miner Rugby Club began their season Saturday with a scrimmage against the Falcons from St. Louis. They lost by a score of 4-0, before a large Septemberfest crowd. The club plays again this Saturday at 1:00 p.m. against St. Louis U. at the Fraternity Row field

## Defense is tops

by Jim Harter

This is the final story of a three part series featuring the various units of the Miner football team.

When opponents face the Silver and Gold this season whether it be on Jackling Field or some foreign gridiron, enemy teams better be prepared to play against the M.I.A.A.'s best defensive team. The Miners play with tradition, a tradition of defense. Last year, they led the M.I.A.A. in total defense allowing the fewest first downs (123) and the least amount of yardage (2477 yards) resulting in only 247.7 yards per game. Their rushing defense was the best also, giving up only 39 first downs and a total of 662 yards, 66.2 yards per game, and 7 touchdowns.

Last year's M.I.A.A. championship season of 8-2 was a team effort led by the defense. The defensive backs and the linebackers played a vital role in stopping their foes. This season the defense again hopes to assist in capturing the M.I.A.A. crown. The defensive secondary and linebackers are strong and deep. Co-captain Glen Wilhelm returns with his team-leading 118 tackles of a year ago. There will be no task too difficult for the linebacking crew. Defensive back Ken Zerkel will lead the secondary with his team-leading seven interceptions last year. The linebackers and defensive backs blend experience with speed, strength, and quickness. With this combination, an undefeated Miner team is possible, especially after a 2-0 start.

The linebacking position features experience and depth. Senior Glenn Wilhelm (Willey) was a first team All-Conference player last season. He is a starter who doesn't make mistakes and is a key performer in the defensive backfield. Senior Tim Schamel (Sam), coming off an outstanding opening game, has the potential to be one of the top linebackers in the M.I.A.A. Tim has fine speed and can "knock your socks off."

Sophomore Matt Banholzer and Senior Todd Anstien are the primary backup linebackers. Matt is recovering from last season's injuries but is looking forward to seeing much action. Todd has had a nagging preseason injury, strained ligaments. He will be dressed out for this week's game against Pittsburg State, making a comeback after a two year's absence. Performing better than anyone had expected, he will back up Wilhelm.

Losing Junior Ben Lewis to a co-op job and Junior Jeff Krack to an injury, the remaining linebackers still look good. Sophomore John Clark is a hard worker who gained 30 lbs. over the off-season. Sophomores Jeff Cotter and Steve Horn are both good athletes. Senior Matt Pitsch is adjusting from his old nose guard position to his newly designated position of linebacking this season.

The defensive secondary looks much better this season. In the first two games this season, the Miners have given up well below their average of 181.5 yards per game. Looking even further to improve that mark is defensive back, senior Brian Bradley. An intimidating hitter and outstanding team leader, Brian will serve as this year's co-captain. This returning starter was fifth in the M.I.A.A. last year with four interceptions. Free safety Junior Ken Zerkel was a first-team M.I.A.A. defensive player last season. This returning Junior led the

Miners with seven interceptions, placing him second in the M.I.A.A. in total interceptions. Senior Rob Laird is coming off a great 1983 campaign. This third returning starter led the team last year by breaking up 17 passes. The newcomer to the starting lineup is sophomore Lloyd Flowers. "He is awfully small but very quick with good speed," coach Bud Mercier said about the 5'7, 150 lb. only non-returning starter.

Sophomore Tony Kaczmarek who was redshirted last year will back up Bradley. Senior Dan Cormondy will back up Zerkel. Dan is an excellent player who can fill the role at either cornerback or safety, and is an integral part to the secondary. Sophomore Vernon Huggans is behind Laird. "Vernon has awesome speed and quickness, and is a gifted natural athlete," said coach Mercier. Senior Bill Rich is backing up Flowers. Coach Mercier said, "Adjusting from runningback to corner back, he has done well."

Entering his 17th season with the Miners, coach Bud Mercier is the defensive backfield coach. "The one thing working for us is lots of competition. There is little difference between team one and two." Asked about this season's expected performance, he replied, "We are a more conservative team than a gambling one. We'd rather bend and bend than break." Well good luck to coach Mercier and the whole UMR team on a successful season.

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## Birthright

### Men's soccer

## Miners lose close game to Quincy

by Mark Buckner

The men's soccer team lost a heartbreaker to Quincy College Thursday by a score of 2-1. Quincy scored the winning goal with less than two minutes to go in the game.

The game was scoreless at half-time and remained scoreless until the last fifteen minutes of the game when Quincy got a goal from Sean Keohau. Three minutes later, the Miners tied the game on a goal by Paul Morgan. But with only 1:29

left in the game, Jim Joyner broke the tie to move Quincy ahead.

Defensively, the Miners were led by Kevin Kenney and Kevin Gibson. Scott Jaskowiak paced the midfield position while goalie Tom Allen made seven saves.

The Miners travel to UMSL University for a twinbill Friday and Saturday against Cincinnati and Illinois State. The next home game is Sept. 20 against Blackburn College.



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## Men's Cross Country

### UMR tallies perfect score

by Dan Lichtenwalner

The Miner men traveled to Maryville college Saturday, where they easily defeated Maryville, Washington University, and St. Louis U. The Miners won with a perfect score of 15, taking the first seven places in the race.

Keith Smith was once again the overall winner, running the 4 mile course in 21:08. Dan Lichtenwalner was next in a time of 21:23. Both Keith and Dan improved their times from last year on this course, as did a few of the other Miner runners. Jim Bullard placed third for the Miners in 21:50, followed closely by John Borthwick in 21:53. Fifth and sixth were Bruce Berwick and Mike Held, side by side in a time of 22:01. Placing seventh was Jeff Balmer in a time of 22:07.

The Miners really performed well, and will be heading into the bigger races with more confidence than ever before. Along with the seven runners mentioned above, there are still the following runners working for spots in the top seven: Dan Ray (22:28), Mike Deamer

(22:33), Curt Macke (22:39), Dave Vonarx (22:58), Jim Clossick (23:05), Mike Reid (23:26), Mark Claus (24:00), and Dave Porter (26:01). Even though seven runners make up a varsity squad, most of the other runners get to compete in many of the races.

This way, they can earn back their varsity spots, or fill in when someone is hurt. Having a good reserve to draw from makes a strong team.

Next week the Miners travel to SIU-E for an invitational meet. This race will feature at least 15 teams. Edwardsville will be the sight of this year's regional meet,

so many teams will want to familiarize themselves with the course for that meet. This is exactly what the Miners intend to do. Knowing exactly where the Miners stand compared to some of the other conference teams this early in the season is a real plus. This should be an exciting race, so stay tuned to hear the results in next week's Missouri Miner.



Runners from Maryville, Washington University, St. Louis University and UMR take off after the starting gun fires at the Maryville College Invitational Cross Country meet held last Saturday. UMR placed runners in the first seven positions.

## Women's Cross Country

### Miners finish at top of field

by Anne Werner

Last Saturday, September 8th, the UMR Men's and Women's Cross Country teams traveled deep into West St. Louis County for the Maryville College Invitational Cross Country meet. The Women's team ran well in the 5000 km (3.1 mile) race, with a first place finish from freshman Julie Board in a time of 20:52, followed by second place finisher, Amy Volmert with a time of 21:16.

Washington University provided the only competition for the Miners. They took third, fourth and fifth place in the women's race. However, UMR filled up the next five spots at the finish line. Senior Laura Ford took sixth place with a time of 24:24, followed by Amy Noel at 25:03 and Debbie Sauer at 25:52. Samantha Moss placed ninth followed by tenth place finisher, Anne Werner.



Coach Sara Preston commented that the Maryville course had unusually tough terrain. This was reflected in the team's slower pace and finishing times. Yet, both Board and Volmert's times were good, considering the difficulty of the course, according to Preston.

This weekend, the UMR team will travel to Edwardsville, Illinois for the SIU-Edwards Invitational. Coach Preston hopes there will be some challenging competition for the Miners and she is looking for a tremendous improvement from everyone.

## Soccer

The second UMR goal, and her second goal of the season, was scored by Chris Waeckerle, when she knocked a pass from Sue Shrum past the Quincy defenders.

Quincy rallied during the middle of the second half when they scored on an indirect penalty kick against veteran Miner goalkeeper, Lisa Frumhoff. The UMR "wall" was no help to Frumhoff as the Quincy player passed the ball to a cohort on the right who then placed the ball into the net behind the "wall."

The Lady Miners soon squashed Quincy's ideas of a comeback when McEntire scored with an accurately placed ball into the corner of the net from the top of the area.

Sue Shrum added a goal to her growing list of statistics in the final twenty minutes of the game when she slammed the ball from 100 feet out into an almost open goal. The Quincy goalie didn't have a chance against the shot.

The Lady Miners take a break this week from games, but will be playing again Tuesday, September 18 against Principia College in St. Louis. The next opportunity to the the marvelous Miners in action will be September 21, when they open against North East Missouri at 7:30.

## HELP!

Writers needed to cover sports events especially intramurals and sporting clubs. Anyone interested call Chris at 314-5576 or come by the MINER office on Sunday evenings at 8:30 p.m.

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