



27 Jan 1983

## The Missouri Miner, January 27, 1983

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# MISSOURI MINER

For the students of UMR

Volume 71, Number 18

Thursday, Jan. 27, 1983

Sixteen Pages

Starting Summer 1983,

## \$10 fee for engineering credits

By HERALEEN SPRENGER

Beginning with the 1983 summer session, all UMR students will be paying an extra \$10 per hour for each engineering course they are enrolled in. This is a result of a Dec. 17 decision by the UM Board of Curators to adopt the proposed \$10 per credit hour supplemental fee.

The criteria upon which such a decision is made include student demand for the degree, the cost of

providing instruction, relative difficulty of attracting and keeping good faculty, demand for graduates, interest by the profession in funding student aid and salary levels of graduates.

The fee, which passed 8-1, will be charged to all students enrolled in the UMR and UMC Schools of Engineering courses and in UMR Mines and Metallurgy courses excluding courses offered by the department

of geology and geophysics. Based on 1981-82 enrollment the revenue generated should amount to over \$1.3 million. Some of that will be used to fund new graduate engineering fellowship programs. And the rest should be used to help replace waning government appropriations.

Discussion of some type of fee hike began over a year and a half ago. The proposal has evolved from a \$400 per semester fee, as suggested

by alumni, to \$43 per credit hour, proposed by the UMR Budget Review Committee, to the present \$10 per credit hour proposed by UM board President James Olson.

"President Olson felt that the other figures would be too much at one time," said UMR Chancellor Joseph Marchello. According to Chancellor Marchello, the professional engineers in Missouri were very supportive of the measure and "had more influence on President Olson in bringing

this forward than anyone else."

The UMR Alumni Association has affirmed its support by pledging to increase student aid. Their goal, said Director of Alumni Development Frank Mackaman, is to increase available aid by an amount which matches that brought in by the supplemental fee. Also, in direct response to the fee, a \$25,000 H.E. Zoller Loan Fund for Engineering Fees has been established.

"The money from the fees will be used," said Chancellor Marchello, "to help us maintain and improve the good quality of our program. It will help us keep good faculty and perhaps hire more. And it will be used to purchase equipment."

"Of course, a good engineering degree requires not only good engineering courses but also a good library, English department, computer center, etc. So we'll look at all the needs and choose our priorities."

Looking toward the future,

## Computers for casual use

SOURCE: OPI

The computer is becoming as important a tool for today's engineering and science students as the slide rule was for earlier generations. Several universities have recently announced that in the future, they will require students to buy personal computers.

At UMR, no such requirement is contemplated, but to ensure that the students get appropriate access to computer usage, a newly formed faculty committee is looking at creative approaches of providing easier computer access for students.

Dr. O.R. Plummer, committee chairman and director of computer and information services, said that the committee is assessing the needs of students for computer access and will make recommendations on how to meet them.

"Compared to other universities, UMR is out in front in providing computer facilities to students; in computer graphics we are one of the two or three best-equipped in the country," he pointed out.

Currently on campus there are about 150 alphanumeric terminals and 35 graphics terminals. In addition, 15 microcomputers will be made available in the Computer Center and the Mechanical Engineering Building during this semester.

According to Plummer, the UMR system is regularly used almost to capacity. "The Computer Center logs 18,000 hours of terminal use

per month, about half of that for graphics classes. This figure varies so little, with no big peaks at the end of the semester or finals, that it indicates that this load is about all that can be handled. The Computer Center is open until 2 a.m. and the graphics terminal room is open until midnight, and there are always people there," he added.

UMR faculty members expect this usage to be compounded.

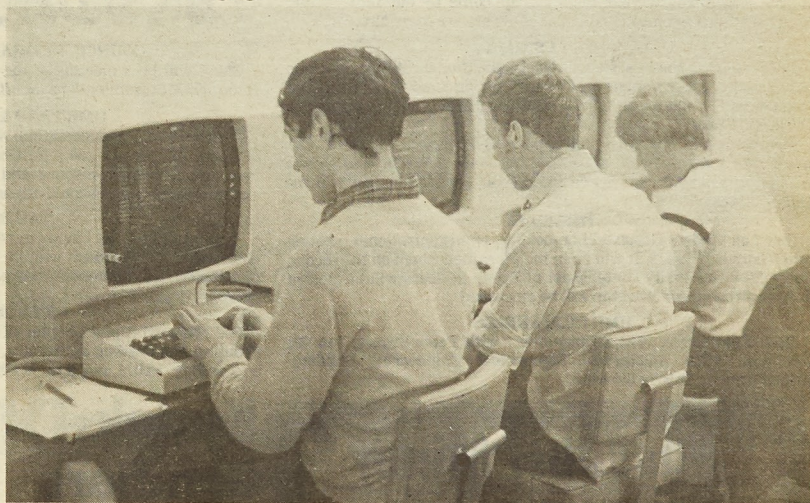
"At this point we have barely enough computer terminals to accommodate our freshmen and sophomores," said Dr.

Robert L. Davis, dean of the School of Engineering. "As these students move into their junior and senior years, we will need more terminals. Any increase in enrollment would have an effect, too."

It has been estimated that ultimately the campus will need one terminal for every five to 10 students, nearly 1,000 terminals.

At present, most students use UMR's computers to work assigned problems in

see Computers  
page 5



Students using computer terminals for classwork. Ultimately it is estimated that UMR will need one terminal for every 10 students, nearly 1,000 terminals.

## A new quad? Not quite!

By SUZY BRUNER

The university has been taking steps to improve the quality of living conditions it

provides to students. It is well-known that Thomas Jefferson Residence Hall has been undergoing major construction during 1982, but work has also been done to improve the university Quadrangle.

According to Mr. Jess Zink, director of Auxiliary Services, and Mr. Steve Zernicke, supervisor of Auxiliary Maintenance and Custodial Services, the following recent renovations have been made to the Quad. Unfortunately no financial figures were available.

Most recent renovation

work has been to Rayl Cafeteria. Called Phase Five by the administration, most of this work began in mid May of 1982.

The biggest construction project was a service elevator installed for moving food from the kitchen to the dining hall. This major improvement replaces an outdated dumbwaiter, and provides much greater ef-

iciency to keep food hot before it is served. This project was finished over the Christmas break, and also included bricking the outside of the elevator shaft to match the rest of the cafeteria's decor.

A new stairway was built inside Rayl for use in the event of elevator failure.

The kitchen was the site of important changes, one of which was the installation of a new dishwashing machine.

Some changes had to be implemented in the plumbing for this addition. The dishwashing room was transformed into a food production room, and one wall was removed to create more work efficiency.

New grills and french-frying machines were placed in better proximity to the dining hall. There now is less

time involved transporting fried foods, so they can be served hotter.

The outside of Rayl received attention through landscaping. A retaining wall was built on the west side of the building parallel to Bishop Street to eliminate

flooding of the cafeteria/lounge during heavy rains. A better drainage system was also installed to help alleviate

this problem. A concrete parking area was poured to create more space for cafeteria employees' cars, and an area was provided to remove unattractive dumpsters from view.

During the summer of 1983, the university plans to replace Rayl Cafeteria's roof with a new one.

Kelly Hall has had a partial face-lift. New fire escapes were added last year, halls were carpeted

and waterproofing of pipes was done. The university also had some landscaping done to improve the dormitory's outside appearance.

A new network of pipes delivering hot water to Kelly Hall and Rayl Cafeteria was installed, and coming up this year are plans for bathroom

renovation with improvement of urinals and replacement of old shower fixtures.

A new roof installed for Holtman Hall was finished over Christmas. Altman and Holtman halls were recently repainted inside and out. New hot water pipes were also installed providing water to Altman, Farrar and MacAnerney halls.

UMR saved some money by having university employees provide the labor needed to renovate the Quad laundry room in the basement of Holtman Hall, instead of outside contracts being made.



# CALENDAR OF EVENTS

**Editor's Note:** If your organization is having a meeting, turn in details to the MINER office in the Rolla Building before Monday at 9 p.m. and we will list it in the Activities Section of the paper. No articles submitted will be printed unless written in complete sentences with proper grammar. No schedule or flyers will be rewritten and published by the staff for the Activities Section.

If your organization is sponsoring a campus-wide event for the benefit of charity, get us details before Monday at 9:00 p.m. We will advertise the event free of charge in this space.

The MINER reserves the right to edit any notices or ads for this page before publication.

## THURSDAY

### MAY GRADUATES

If you will be completing requirements for a M.S. or Ph.D. degree at the end of the current semester, you should make application for that degree by going to the Registrar's Office before Jan. 27, 1983. The Registrar's Office will not be able to include you with other students graduating on May 15 unless you make application with Lauren Peterson.

### GDI

GDI is having a general membership meeting on Thursday, Jan. 27, at 7 p.m. in Room G-3 of the Chemical Building. Everyone is invited and pictures will be taken. Memberships will be available.

GDI is currently selling spring semester memberships on campus. If you need to renew your membership come by our table at the bookstore. Spring semester calendar of events are there also.

### PHI ETA SIGMA

Phi Eta Sigma National Honor Society, a national college scholastic honor society for freshmen, will hold its spring smoker for freshman initiates on Thursday, Jan. 27 in H-SS G-5 at 7 p.m. Our speaker will be Dr. David Fannin.

Membership in Phi Eta Sigma is open to freshmen who have 14 or more credit hours, with a GPA of at least 3.5. Phi Eta Sigma recognizes academic excellence among college freshmen all over the United States.

### NEWMAN

Newman Student Group will be holding an organizational meeting next Thursday, Feb. 3. It will be in the Meramec Room on the second floor of the University Center-East at 7 p.m. Officers will be elected and the direction for Newman will be discussed.

### UMR FILM SERIES

UMR Film Series, "Dr. Strangelove," with Peter Sellers, Jan. 27, 7:30 p.m., Miles Auditorium, Mechanical Engineering Building. Season ticket or \$2.50 at the door.

## FRIDAY

### MOVIE

On Friday, Jan. 28 there will be a showing of the movie "Givers, Takers and Other Kinds of Lovers," by Josh McDowell, in the Missouri Room of the Student Center at 7 p.m. Sponsored by Inter-Varsity Christian Fellowship, Baptist Student Union, Wesley, Joy Lutheran Center and Christian Campus House.

### SMOKER

Student Union Board Smoker Friday at 6 p.m. at Sig Nu followed by John Biggs coffeehouse in Centennial Hall at 8. Everyone is welcome.

## MONDAY

### LANGE TO SPEAK

Roy H. Lange, manager, advanced concepts department, Lockheed-Georgia Co., will speak at UMR mechanical and aerospace department seminar at 3:30 p.m. Monday, Jan. 31, in Room 216 Mechanical Engineering.

He will discuss "Design Integration of Laminar Flow Control for Transport Aircraft."

### MATH HELP SESSIONS

Having trouble with algebra, trigonometry or calculus? Then come to the KME math help sessions and get some help. Help sessions are held every Monday and Thursday night 6:30-8 p.m. in Room 209 M-CS Building.

### AIAA

The UMR AIAA chapter will hold a meeting Jan. 31, at 7 p.m. in Room 104 ME Building. The speaker will be Roy Lange from Lockheed-Georgia. He will be speaking on "Advanced Concepts in Drag Reduction." Everyone is welcome.

## TUESDAY

### COUNCIL OF GRADUATE STUDENTS

There will be a meeting of the CGS Tuesday, Feb. 1, at 8 p.m. in Room 208 ME. Nominations for officers will be taken.

### UMR TRAP & SKEET CLUB

The UMR Trap and Skeet Club will have a meeting Tuesday, Feb. 1, in Room 101 EE at 6:30 p.m. Discussion will include the upcoming tournament at Warrensburg and weekend practices. All members and interested people should attend.

### TAU BETA PI

Tau Beta Pi will be having a meeting Tuesday, Feb. 1, at 7 p.m. in G-5, H-SS. Committees will be formed, and invitations will be distributed. All members are urged to attend. Refreshments will be served.

### BETA CHI SIGMA

The Missouri Alpha Chapter of Beta Chi Sigma, the International Scouting and Guiding Fraternity, will hold an informational smoker on Tuesday, Feb. 1, at 7 p.m. at Phi Kappa Theta fraternity, 707 State

St. Anyone with Scouting or Guiding experience is welcome. A short meeting will be held at 6:30 p.m.

## WEDNESDAY

### I.T.E. PRESENTS JOB SEMINAR

The Institute of Transportation Engineers will meet Wednesday, Feb. 2, at 7 p.m. in the Civil Engineering Auditorium. Ray Breedlove of Missouri Pacific Railroad will discuss interview techniques and opportunities with MoPac. All students are welcome, memberships will be accepted, and refreshments will be served.

### BLOOD DRIVE

The Student Council Blood Drive will be held during the days of Wednesday, Feb. 2 and Thursday, Feb. 3. A trophy will be given at the end of the semester for the organization with highest participation.

### WESLEY

Wesley holds a general meeting every Wednesday evening at 6 p.m. at the Wesley House, 403 W. Eighth St. The program usually includes a speaker and-or film. Refreshments are served, and everyone is invited.

Wesley also holds an interdenominational chapel service every Sunday morning at 9:30 a.m. at the Wesley House. Everyone is welcome.

### KME MEETING

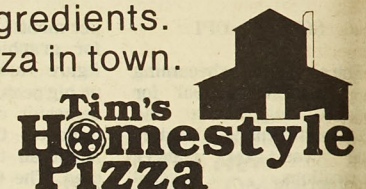
Kappa Mu Epsilon will hold its first meeting of the semester on Wednesday, Feb. 9, at 6:30 p.m. in Room 209 Math-Com. Sci. Shingles will be distributed. All members and initiates please attend.

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## Kodak Scholars Program

SOURCE: OPI

UMR is one of 69 colleges and universities selected to participate in the Kodak Scholars Program through Eastman Kodak Co.'s Educational Aid Program.

The program annually provides 75 percent of tuition or \$850, whichever is greater, to scholars beginning in the sophomore year and continuing until completion of requirements for a bachelor's degree. In addition, unrestricted supplemental grants are made annually to the department in which each scholar is enrolled. At UMR the program supports four students each in the departments of chemical and mechanical engineering.

During the past year, Eastman Kodak Co. made contributions totaling \$5 million to institutions of higher learning and educational organizations through its 1982 Educational Aid Program.

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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 student and faculty of UMR.

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THE MISSOURI MINER

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## UMR campus improvements

By KEVIN FARRELL

Even though money is tight, the UMR campus is still undergoing continuous improvement.

According to Joseph D. Wollard, executive director of Administrative Services, improvements will be made in four major areas.

The first problem area to be dealt with is those problems caused by pedestrian circulation on campus. The tunnel under Highway 63 solved the problem of getting students from Thomas Jefferson over

to campus safely. Mr. Wollard has had some studies made of the pedestrian traffic patterns on campus. These studies indicate many other problem locations.

These areas cannot be improved all at once. When money is made available for a specific area then the improvement will be made to that area. For example, the new Mineral Engineering Building has some pedestrian traffic difficulties associated with it. Appropriate sidewalks and ramps will be included

in the bid for this building. Otherwise it would be very difficult for the university to raise the money for a separate project to construct the proper walkways.

The grassy area to the east of the library and south of the E.E. Building is definitely the next target for improvement. Now, to go from the Trace Place to the east entrance of the E.E. Building, you must walk a dirt path and hop the ditch. A network of sidewalks is planned for this area. In addition to the sidewalks there will be a footbridge

across the ditch. The size and placement of these sidewalks is based on pedestrian traffic studies.

The second major area in need of improvement is the vehicular traffic problem. Of course this problem is related to pedestrian traffic problems. When the two types of traffic are caused to

intersect, an area of concern is created for the university. Another vehicular problem is parking. The remedies for these problems are only in the conceptual planning stage right now.

The last two major areas of improvement are of directive signs on campus

and a main campus entrance. With all of the visitors and new people coming and going on campus, there is a real need for directive signs. A well-marked main entrance and the directive signs will allow visitors to find their way to most departments with little or no guesswork.

### Organizations needing money

## StuCo taking requests

By HEIDI FLUEGEL

For this school year, 1982-1983, Student Council budgeted \$6,000 for appropriations and \$10,000 for non-varsity sports. This semester Student Council has approximately \$1,700 to appropriate for organizations and \$2,000 for non-varsity sports. At this time Student Council is accepting requests from organizations and non-varsity sports for appropriations. These requests may be picked up at the Student Council office, University Center-West, Room 20.

Each organization requesting appropriations shall submit a report containing the following information:

1. A summary of all requests for the previous four years.
2. A copy of last year's budget and actual expenditures.
3. The number of members in the organization.
4. A copy of the current year's budget.
5. Plans for becoming self-sufficient.
6. An explanation of how the organization benefits the student body, and why the council should make the appropriation.
7. The report should be signed by the president, treasurer and faculty adviser of the organization.
8. Any organization requesting appropriations for more than three years must provide budgets and all other financial records of those three years in which it has received student funds.

The Student Council policy of granting appropriations follows this criteria:

- a) To help new organizations get started.
- b) To lend help to organizations which have deteriorated to get started again.
- c) To assist organizations which are inherently unable to support themselves.

The reports will be reviewed by the Student

Council Appropriations Committee. A representative from the organization making the request may be called upon by this committee to answer questions.

The committee will make recommendations to the council. Organizations receiving appropriations will be notified.

WATCH FOR FREE  
UNIVERSITY WEEK



The "Voices of Inspiration" choir observed a silent vigil Friday, Jan. 14, at the hockey puck, in memory of Martin Luther King Jr., whose birthday, Jan. 15, is celebrated in several states.

## Martin Luther King, never forgotten

By VALERIE FOSSEY  
Of the Daily News Staff

Despite cold temperatures and gusts of wind that whipped hair and sent papers flying, UMR students, joined by some other members of the community, recently

gathered outside at UMR to celebrate the birthday (Jan. 15, 1929) of civil rights leader Dr. Martin Luther King Jr.

The service began with a moment of silence, followed by a prayer and the UMR student choir, the Voices of Inspiration, singing "We Shall Overcome."

Though admittedly put together on short notice, the program included additional choral music, a brief reading on the life of Dr. King and an excerpt from his "I Have A

Dream" speech given in Washington, D.C. The program concluded with a commemorative speech by black student Earl Mayhorn, a junior at UMR majoring in electrical engineering.

Mayhorn emphasized the day's importance, saying, "This is just a small part, but it is a necessary part. We need a day when we can all come together in a state of mind of love and understanding ... harmony for all people. ... This is not just a dedication to a black man, or a great man in general, but to all those we honor and love."

Honoring Dr. King's work as a leader in the movement for civil rights, Mayhorn stated, "A white president gave us the Emancipation

Proclamation, but Dr. Martin Luther King, a black man, made it stick."

Dr. King, recipient of the

Nobel Peace Prize in 1964, was assassinated by James Earl Ray April 4, 1968, in Memphis, Tenn. Seventeen

states, including the Virgin Islands, honor him with a legal, optional, or commemorative day.

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# Dr. Jensen, prof. emeritus of physics, dies

SOURCE: OPI

William J. Jensen, UMR professor emeritus of physics, died Thursday, Jan. 20, 1983, at Sunset Village of the Ozarks, Waynesville. He was 85.

Professor Jensen retired in 1967 after 43 years on the

UMR faculty. He came to the campus in 1924 as an instructor of physics. He was promoted to assistant professor in 1925, associate professor in 1930 and professor in 1965. He held an A.M. degree in physics from the University of Illinois and an A.B. degree cum laude in

physics from Carleton College, Northfield, Minn.

Professor Jensen's professional affiliations included the American Association of Physics Teachers, the American Society for Engineering Education, Gamma Alpha graduate honor society,

Sigma Pi Sigma, physics honor society, and Sigma Xi.

He was a member of the Phi Kappa Phi honor society and served as secretary-treasurer of the Rolla chapter of that organization for 29 years prior to his retirement.

Professor Jensen also served as a

national officer of the organization for 13 years, and several years after his retirement was honored by the national organization as a "Distinguished Member."

He was the author of several technical papers and co-authored a physics

laboratory manual in 1957. He also served on several faculty committees during his tenure at UMR.

Professor Jensen is survived by his wife, Emma, and a daughter and son-in-law, Mr. and Mrs. David F. Flota, Harrisburg, Ill.

## News briefs

### Casino Night ladies

By JOHN MACKIE

Once again, Theta Tau Omega is sponsoring its Annual Casino Night from 8 p.m.-midnight March 16, with proceeds going to charity. To make this grand event possible, Theta Tau needs young ladies to serve refreshments to the dealers. Every young lady participating is guaranteed an escort and a great time. If you think you have the qualifications and would like to start St. Pat's off right, please call Tim Kassen at 364-9885 or stop by the Phi Kappa Theta Annex at 610 W. Eighth St.

### Rolla City stickers

SUBMITTED BY STUCO

Once again this semester, Student Council is giving students the opportunity to purchase Rolla city stickers for their vehicles. On Thursday, Feb. 3, representatives from the city collector's office will be on campus to sell these stickers. You may purchase a sticker for your vehicle from 9 a.m.-4 p.m. right outside the University Center Bookstore.

According to City Collector Naomi Kittle, all UMR students who have

vehicles here in Rolla which are registered or co-registered in their name must purchase these stickers to be in compliance with the law. And even if your car has a city sticker from your hometown, you must still buy a sticker if the car or motorcycle is registered in your name.

The cost of these stickers is \$2 for motorcycles, \$2.50 for three-wheeled vehicles and \$3.50 for cars or trucks. The sticker is good for the entire 1983 calendar year.

These stickers are available at these prices only on Feb. 3. If purchased after that time a delinquent registration cost will be charged.

### ASEM exciting!

This semester promises to be an exciting one for ASEM and engineering management majors. A new pamphlet will be fresh off the press soon from the students in the local chapter of the American Society of Engineering Management explaining the curriculum, purpose and advantages of the engineering management degree. There are social events already planned and the new officers plan to motivate the organization and to live up to the meetings. A plant trip and picnic are being formed now to facilitate the goals of the group and the first meeting of the semester will

be held at 6:30 p.m. Feb. 3 in H-SS G-5. Come on over and hear Jim Blankenship from IBM speak and recruit on assorted topics and ask questions. IBM will also have representatives here Feb. 2 in University Center-East to accept resumes for summer and other employment. Even if you are not a management major come find out what the organization is about and meet some people.

### Red Cross Water Safety

SOURCE: OPI

Red Cross courses in "Basic Rescue and Water Safety" and "Advanced Lifesaving" will be offered at UMR beginning Friday, Feb. 4. The courses will be jointly sponsored by UMR, the Phelps County Chapter of the American Red Cross and the Rolla Department of Parks and Recreation.

The basic course will teach skills for saving one's own life in an emergency, the correct response to various aquatic emergencies and how to assist lifeguards in search-and-rescue procedures.

The advanced course will teach skills to save one's own life and the lives of others in an emergency. Those successfully completing this course are eligible to become water safety instructors, the certification now commonly required for swimming pool personnel. A Red Cross Water Safety Instructor course will be

offered, one time only, at UMR in March.

Both courses will begin at 7 p.m. Feb. 4 in Room G-26 of the Gale Bullman Multi-Purpose Building. Both courses will meet for instruction from 8 a.m.-noon and 1-4 p.m. on Saturday and Sunday, Feb. 5 and 6. The advanced course continues with the same schedule on Saturday and Sunday, Feb. 12 and 13.

Course director is Dr. Harry Weart, chairman of the UMR metallurgical and nuclear engineering department. Course fees, including textbook, are \$2 (basic) and \$4 (advanced).

Interested people may sign up at the Phelps County Red Cross office in the basement of the Rolla Police

Department building, 204 E. Eighth St. The phone number is 364-3947.

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# Computers are fun

scheduled classes and laboratories. Many UMR faculty members expect this situation to change rapidly.

"We feel that we are moving into a new dimension in computer use, where students will do more of what we term 'casual use' of the computer for solving all sorts of problems rather than structured use in a classroom or lab. New software programs are available that are applicable to all areas of science and engineering," Plummer explained.

The professors feel that much of the student interest at UMR has been sparked by the integration of computer graphics into the undergraduate curriculum.

"In their freshman drawing classes, students use the graphics terminals and get acquainted with what a computer can do very early in their college careers. Being able to see graphically what the computer can do captures their interest and sparks creativity. They start thinking of new uses on their own, and that's the kind of thing we really aim for in education," Davis said.

UMR engineering departments are stepping up their emphasis on computer applications in their particular fields, and students are definitely interested, said Dr. David J. Barr, committee member and chairman of the campus computer committee which will advise on the study. Almost double the number of students he had expected enrolled in a course on computer applications in geological engineering he is teaching.

The committee will explore all sorts of possibilities. Among their considerations will be the type of facilities needed.

"Technology now makes it possible to offer different levels of computer capability and to move between those levels. Many problems can be solved on a small 'smart' terminal which has problem-solving capabilities of its own. If a problem can't be handled, it is moved up to the larger machine. In the past, the larger computer with shared capabilities was most cost effective; now it may be that the smaller computer can handle a large part of the load. It is likely that we will find we need to advance at

all levels."

The committee also will consider how best to make these facilities available to students. This past year, UMR has experimented with the use of rental terminals in the dormitories. Terminals were returned to campus when it became apparent that students preferred using the on-campus units.

Although personal computers are not required of UMR students, many are buying them on their own initiative.

"Just this fall they have begun to appear in dormitory rooms," said Jess Zink, director of Auxiliary Services. Dormitory supervisors estimate that about 4 to 5 percent of the students in the dorms own a computer of some sort.

Many of those who don't have a computer want one. Dan Klingenberg, manager of the UMR Bookstore, says that he can't keep the least expensive model (less than \$100) in stock. "And every order I send in is back ordered," he added.

If enough students have their own computers, it may change the campus approach to the access problem in the future.

"If the cost of personal computers goes down and capability goes up, as happened with hand-held calculators, more and more students will be acquiring their own computers whether they are required or not," Davis believes. "Looking down the road five years or so, it is possible that departments may make such things as printers, plotters, hard copy units and graphics monitors available so that the student could simply come along, plug his own computer into the system, and go to work."

It's this type of casual access to the computer that faculty members stress.

"We want the students to think of the computer as a tool and use it for all sorts of tasks," Plummer said. "That's the way it is going to be used in their future."

The committee, which also includes Dr. Arlan DeKock, acting chairman of the computer science department, and Dr. William H. Tranter, assistant dean of the School of Engineering, expects to make its report before the end of the semester.

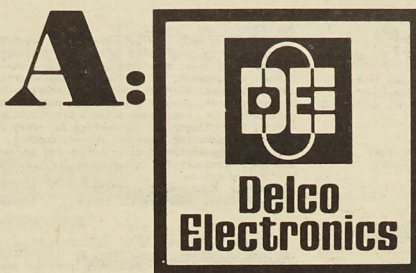
"It's a complex subject, and there are lots of things to

consider,"

Plummer summed up. "But it all boils down to how to serve the student best — and how to finance it."

from page 1

**Q: Who makes 250,000 Semiconductor Devices a day in Kokomo, Indiana?**



Surprised? A lot of people are when we tell them we are the third largest captive IC supplier in the United States (according to ICE). We make a quarter million Semiconductor Devices, 15,000 Computers and 14,000 Entertainment Systems per day in one of the greatest little towns in the midwest, Kokomo, Indiana.

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- EPROMs, E<sup>2</sup>PROMs

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## Interview sign ups for week of February 14-18

**THE MAYTAG COMPANY, Newton, IA**  
Will interview MAY 1983 grads with BS/Mechanical Engineering, Electrical Engineering for Design Engineer, Research & Development Div. US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Newton, IA  
Interviewer: Bob Stanley  
Interview date: February 14, 1983  
Priority sign-up: January 28, 1983  
Regular sign-up: January 31, 1983

**OLIN CORPORATION, East Alton, IL**  
Will interview MAY 1983 grads with BS/Metallurgical Engineering for Met Engr/Marketing, dealing with purchasing, design and manufacturing problems and personnel at customer's plants; BS/Computer Science for Programming Analyst position. Must be interested in pursuing MBA at a later time.  
Will interview MAY 1983 GRADS ONLY (previous grads, sign on back-up list) with BS/Mechanical Engineering for Process Engineering/Engineering Staff.  
US CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Interviewer: B. Miller  
Location: East Alton, IL  
Interview date: February 14, 1983  
Priority sign-up: January 28, 1983  
Regular sign-up: January 31, 1983

**PRATT & WHITNEY AIRCRAFT, East Hartford, CT**  
Will interview MAY 1983 GRADS (December 1982 grads may sign on back-up list if top 1/2 of class) with BS/MS/Aerospace, Mechanical, Metallurgical Engineering for Government Products Division; BS/MS/Aerospace, Mechanical, Metallurgical, Electrical Engineering, Applied Math, Comp Science for Commercial Engineering.  
US CITIZENSHIP ONLY.  
Location: West Palm Beach, FL  
Interviewer: unknown at this time  
Interview date: February 14, 1983  
Priority sign-up: January 28, 1983  
Regular sign-up: January 31, 1983

**AMERICAN ELECTRIC POWER COMPANY, Columbus, OH**  
Will interview MAY, JULY 1983 GRADS ONLY (previous grads, sign on back-up list) with BS/MS/Electrical Engineering for Development of Computer Applications for control and monitoring of power systems; BS/MS/Mechanical Engineering for Development of power plant systems (piping, HVAC, fire protection) etc. Performing stress analysis for piping systems, using computer programs and manual methods; BS/MS/Nuclear Engineering for Nuclear Safety and Licensing, Nuclear Materials and Fuel Management, Nuclear Operations Support, and Radiological Support. US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Columbus, OH  
Interviewer: unknown at this time  
Interview date: February 14, 1983  
Priority sign-up: January 28, 1983  
Regular sign-up: January 31, 1983

**DARCOM (U.S. Army Materiel Development & Readiness Command, Davenport, IA)**  
Will interview MAY 1983 grads (December 1982 grads with 2.9 or above GPA may leave resume with Placement Office - sign back-up list) with BS/Electrical, Mechanical Engineering for CIVILIAN ENGINEERING. Training will be for one year at the Intern Training Center, Red River Army Depot, Texarkana, TX, with subsequent assignment to a permanent duty location. Training will be in Product/Production, Safety, Maintainability, or Quality & Reliability Engineering.  
US CITIZENSHIP REQUIRED.  
Location: Nationwide  
Interviewer: Robert Porter  
Interview date: February 14, 1983  
Priority sign-up: January 28, 1983  
Regular sign-up: January 31, 1983

**JOHNSON MADOX SCHLUMBERGER, Sugarland, TX**  
Will interview MAY, JULY 1983 grads; December 1982 grads ONLY. Must have BS/Chemical, Mechanical, Mining, Civil, Electrical Engineering, Engineering Management, Math for Junior Service Engineer. Substantial amount of work time will be required at oil & gas field well locations. US CITIZENSHIP REQUIRED BY COMPANY.  
Location: throughout U.S. except Northeast  
Interviewer: Jacques Morin  
Interview date: February 14, 1983  
Priority sign-up: January 28, 1983  
Regular sign-up: January 31, 1983  
NOTE: INTERVIEWS WILL BE 20 MINUTES EACH.

**QUAKER OATS COMPANY, Chicago, IL**  
Will interview MAY 1983 GRADS (25% OF SCHEDULE WILL BE ALLOTTED TO DECEMBER 1982 GRADS) with BS/Chemical, Mechanical Engineering for Project Engineer.  
US CITIZENSHIP REQUIRED BY COMPANY.  
Location: Midwest  
Interviewer: unknown at this time  
Interview date: February 14, 1983  
Priority sign-up: January 28, 1983  
Regular sign-up: January 31, 1983

**COMOCO, INC., Ponca City, OK (Computer and Telecommunications Services Dept.)**  
Will interview MAY, JULY 1983 GRADS ONLY (Previous grads, sign on back-up list) with BS/Computer Science ONLY for Computer and Telecommunications Services Dept. PERMANENT INTERVIEWS FOR THIS SCHEDULE WILL BE AM ONLY (AM SIGNUPS ONLY). US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Ponca City, OK  
Interviewer: Terry Whiteside  
Interview date: February 15, 1983  
Priority sign-up: January 31, 1983  
Regular sign-up: February 1, 1983

**COMOCO - Computer and Telecommunications Services Department - (cont'd from page 1)**  
Will interview MAY, JULY 1983 GRADS ONLY with BS/MS/Computer Science (with an operations research option), math, and statistics for Operations Research Analyst. US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Houston, Texas; Ponca City, Oklahoma  
Interviewer: Craig Bowen  
Interview date: February 16, 1983  
Priority sign-up: February 1, 1983  
Regular sign-up: February 2, 1983

**DOW CHEMICAL USA, Freeport, TX**  
Will interview MAY, JULY 1983 GRADS with BS/MS/PhD Chemistry for entry level positions of responsibility in research & development, process development, product development, and production manufacturing operations, technical service and development; BS/MS/Mechanical Engineering for entry level positions in maintenance support, project engineering, engineering services, process control, instrumentation, power generation & distribution, and chemical production operations; BS/MS/Electrical Engineering for entry level positions in maintenance support, engineering services, process control, instrumentation, computer systems, power generation & distribution and project engineering.  
Location: Freeport, TX; Oyster Creek Div. Louisiana Div.; Midland, MI; Western Div.; Pittsburg, CA  
Interviewer: unknown at this time  
Interview date: February 15, 1983  
Priority sign-up: January 31, 1983  
Regular sign-up: February 1, 1983

**GAS SERVICE COMPANY, Kansas City, MO (CANCELLED AS OF 1-19-83)**  
Will interview MAY 1983 GRADS ONLY (previous grads, sign on back-up list) with BS/Civil, Electrical, Mechanical Engineering, Engineering Management. First 12 months would include K.C. location with 3 stage E.I.T. program. Work consist of light design and public service of natural gas. Could relocate in Midwest after E.I.T. program.  
Location: Midwest; MO, KS, NE, OK  
Interviewer: Barry Jackson  
Interview date: February 15, 1983  
Priority sign-up: January 31, 1983  
Regular sign-up: February 1, 1983

**INTERNATIONAL PAPER COMPANY, Mobile, AL**  
Will interview MAY, JULY 1983 grads with BS/Electrical Engineering for areas of plant engineering design engineering and construction.  
(NOTE: If you interviewed with International Paper in the fall, please do not sign for a spring interview). US CITIZENSHIP REQUIRED.  
Location: Southwest, Southeast, Northeast, Nationwide  
Interviewers: B.D. Dean and B.M. Ingram  
Interview date: February 15, 1983  
Priority sign-up: January 31, 1983  
Regular sign-up: February 1, 1983

Note: Interviews for February 15 will be afternoon only; interviews for February 16 will be for morning only.

**KANSAS GAS & ELECTRIC COMPANY, Wichita, KS**  
Will interview MAY 1983 grads with BS/Mechanical, Electrical, Nuclear Engineering for plant engineering, operating, quality assurance, and nuclear services in Nuclear Department. US CITIZENSHIP REQUIRED BY COMPANY.  
Location: positions based in Wichita, Kansas and the Wolf Creek Generating Station near Burlington, KS.  
Interviewer: Rob Southern  
Interview date: February 16, 1983  
Priority sign-up: February 1, 1983  
Regular sign-up: February 2, 1983

**PURITAN BENNETT CORPORATION, Kansas City, MO**  
Will interview December 1982, May, July 1983 grads with BS/MS/Mechanical Engineering for Project Engineer; manufacturing in Puritan Medical Div. US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Lenexa, KS (suburb of KC, MO)  
Interviewer: Nancy Campbell  
Interview date: February 15, 1983  
Priority sign-up: January 31, 1983  
Regular sign-up: February 1, 1983

**ANALOG DEVICES SEMICONDUCTOR, Wilmington, MA**  
Will interview MAY 1983 grads (Will collect resumes from previous grads) with BS/MS/Electrical Engineering, Semi Physics; Chemical Engineering, Electrical Engineering/Computer Science, EE, Semi Physics; Product/Test Development Eng.; Electrical Engineering; Design; Electrical Engineering, Physics, Chemical Eng.; Quality Assurance, Reliability, Process Sustaining Eng., Process Development Eng.; Electrical Eng. w/Comp Science; Characterization/CAD Eng.; Electrical Eng. (BS); Product Marketing Eng. US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Wilmington, Mass. (15 mi north of Boston)  
Interviewers: Deborah Sorenson, Tremont Miao, Bruce Amazeen, Bruce Hammond  
Interview date: February 15, 1983  
Priority sign-up: January 31, 1983  
Regular sign-up: February 1, 1983

**MCGRAW EDISON, Roeland Park, KS**  
Will interview MAY grads with BS/Electrical Engineering - potential field sales engineers. US CITIZENSHIP REQUIRED.  
Location: Roeland Park, KS  
Interviewer: Jim Fleege  
Interview date: February 15, 16, 1983  
Priority sign-up: January 31, 1983  
Regular sign-up: February 1, 1983

**MCDONNELL DOUGLAS CORPORATION, St. Louis, MO**  
Will interview MAY, JULY 1983 GRADS ONLY ON ALL SCHEDULES. US CITIZENSHIP REQUIRED ON ALL SCHEDULES.

**MCDONNELL DOUGLAS AIRCRAFT COMPANY/MCDONNELL DOUGLAS AERONAUTICS DIV.**  
Will interview MAY 1983 grads with BS/MS/Electrical Engineering for design, research, development, analysis, testing, computer aided design and software development, for aircraft, missile, electronic and spacecraft systems. Location: St. Louis

**MCDONNELL DOUGLAS AUTOMATION COMPANY**  
Will interview MAY 1983 grads with BS/MS/Computer Science for systems design and analysis, consulting, user support, application processing, teleprocessing, programming, training, data conversion and implementation; business applications programming, scientific applications programming, systems programming, CAD/CAM - Robotics.  
Location: St. Louis

**MCDONNELL DOUGLAS AIRCRAFT COMPANY/MCDONNELL DOUGLAS AERONAUTICS**  
Will interview BS/MS/Mechanical, Aerospace Engineering for engineering design, research, development, analysis, testing, computer aided design and software development, for aircraft, missile, electronic and spacecraft systems.  
Location: St. Louis

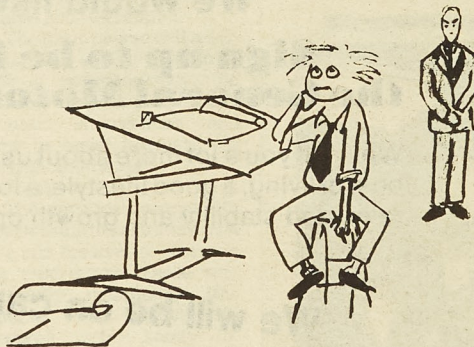
**MCDONNELL DOUGLAS AIRCRAFT COMPANY**  
Will interview BS/MS/Aerospace, Electrical, Mechanical Engineering, Computer Science (tech. software) for areas of acoustics, aerodynamics, airport/aircraft, compatibility, avionics design support, electrical, environmental, flight and lab testing, interiors, material and processes, power plant, structures, structural mechanics, reliability and safety, technical information systems, systems analysis, weights and mechanical engineering. Location: Long Beach, California

**MCDONNELL DOUGLAS ELECTRONICS COMPANY**  
Will interview BS/MS/Electrical Engineering, Computer Science (tech. software) for digital systems architecture, logic design and software/firmware development in addition to analog and digital circuit design. Location: St. Charles, MO  
Interviewers: unknown at this time  
Interview date: February 16, 17, 1983  
Priority sign-up: February 1, 1983  
Regular sign-up: February 2, 1983

**BLACK & VEATCH, Kansas City, MO**  
Will interview MAY, JULY 1983 GRADS ONLY (previous grads, sign on back-up list) with BS/MS/Mechanical, Electrical, Chemical Engineering for Design Engineers. (See company literature). US CITIZENSHIP REQUIRED BY COMPANY.  
Location: Kansas City, MO or Overland Park, KS  
Interviewer: unknown at this time  
Interview date: February 17, 1983  
Priority sign-up: February 2, 1983  
Regular sign-up: February 3, 1983

# 1985 GRADUATE: Is There A Job For You??

Let's face it, the science, engineering and technical job markets are NOT what they once were. Even the positions of disciplines in high demand (electrical, mechanical, aerospace, etc.) are NOT being filled due to the shaky economy! We've seen it in black and white, on the news; we hear the tales of seniors searching high and low for that job they've spent 4.5 years of hard work to secure. Not very promising.



What about you? Are you an honor student? Or do you think a 2.0-2.5 GPA is high enough to get your foot into the door of some industrial concern? And what would they offer you? A drafting table in back of some room, working as a junior engineer, precariously waiting for enough seniority years to move ahead, or feel secure?

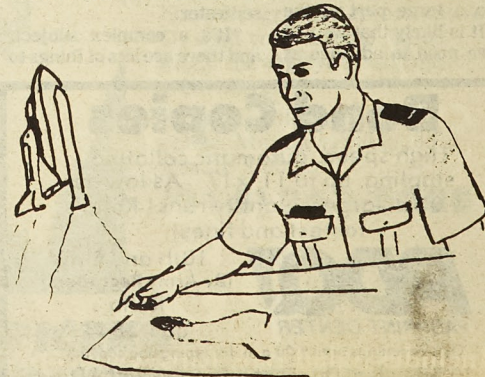
## THE AIR FORCE CAN GUARANTEE YOUR JOB TWO YEARS BEFORE GRADUATION!

But what kind of job? First and foremost the Air Force needs engineers. The engineers, for the most part, are given complete project responsibility, quite early in their careers, usually within the first four years. The Projects? With the formation of the new Space Command in Colorado (1985-86), and with the growth and expansion of the Air Force Systems Command, the Air Force has opened a door to new and exciting job opportunities for scientists, engineers and technicians.

The job, the benefits, the security — these can mean a lot to someone contemplating the job world in two years.

Air Force ROTC can give you more information on these diverse opportunities, as well as tailor a program for you, the 1985 graduate! Interviews will be held the month of February. Interested? Call or stop by:

**Air Force ROTC**  
Bldg. T-7  
341-4932 or 4925



**AIR FORCE ROTC**  
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# Summer

**DYNATICS, INC., Huntsville, AL**  
Will interview MAY 1983 grads with BS/MS/PhD in Electrical Engineering for research, engineering, and analysis of tactical and strategic weapon system and components including radars, optical subsystems, guidance and control systems, and advanced technology assessments. MUST BE IN TOP QUARTER OF CLASS.  
U.S. CITIZENSHIP REQUIRED BY COMPANY.  
Location: Huntsville, AL & Ft. Walton Beach, FL  
Interviewer: Dr. Hays  
Interview date: February 18, 1983  
Priority sign-up: February 3, 1983  
Regular sign-up: February 4, 1983

**FRITO LAY, INC., Dallas, TX**  
Will interview MAY 1983 grads (December 1982 grads may sign, but employment not guaranteed immediately) with BS/Civil, Electrical, Mechanical Engineering for engineering and technology. US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Dallas HQ  
Interviewers: unknown at this time  
Interview date: February 18, 1983  
Priority sign-up: February 3, 1983  
Regular sign-up: February 4, 1983

**JOHNSON CONTROLS, INC., SYSTEMS & SERVICES DIVISION, Milwaukee, WI**  
Will interview MAY 1983 grads (previous grads, should sign on back-up list) with BS/Electrical, Mechanical Engineering for Sales, Application Engineer. Job descriptions will be attached to sign-up sheet. US CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Kansas City, St. Louis and 120 branch locations nation-wide  
Interviewer: Jo Persons  
Interview date: February 18, 1983  
Priority sign-up: February 3, 1983  
Regular sign-up: February 4, 1983

**MARATHON PIPELINE COMPANY, Martinsville, IL**  
Will interview MAY, JULY 1983 GRADS ONLY (previous grads, sign on back-up list) with BS/MS/Electrical, Mechanical, Civil Engineering for Pipeline Engrs.  
NOTE: ONLY 2 INTERVIEWS ALLOTTED TO CIVIL ENGRS FOR AM; 2 INTERVIEWS ALLOTTED IN PM FOR CIVIL ENGRS. PERMANENT VISA REQUIRED.  
Location: Martinsville, IL  
Interviewer: Larry McDaniel  
Interview date: February 18, 1983  
Priority sign-up: February 3, 1983  
Regular sign-up: February 4, 1983

**PUBLIC SERVICE COMPANY OF COLORADO, Denver, CO**  
Will interview MAY 1983 grads with BS/Electrical Engineering for Electric Div.; BS/Civil, Mechanical Engineering for Gas & Fuel Supply Operations Division - NOTE: SCHEDULE WILL BE 50% CIVIL, 50% OF SCHEDULE WILL BE FOR ME'S -  
Will interview BS/Electrical, Mechanical Engineering for Marketing & Energy Utilization Div. (Details posted with signups). PERMANENT VISA REQUIRED.  
Location: Denver, CO  
Interviewer: unknown at this time  
Interview date: February 18, 1983  
Priority sign-up: February 3, 1983  
Regular sign-up: February 4, 1983

ADDITION TO SCHEDULES FOR WEEK OF February 14-18, 1983

**HANSCOM AFB, Massachusetts**  
Will interview MAY, JULY 1983 grads with BS/Ceramic Engineering. This position requires specialized knowledge of glass technology, as it pertains to bulk glasses and fiber optic waveguides, their optical, mechanical, physical and chemical characteristics. Position is Federal Civil Service and requires US Citizenship.  
Location: Bedford, MA  
Interviewer: unknown at this time  
Interview date: February 17, 1983  
Priority sign-up: February 2, 1983  
Regular sign-up: February 3, 1983

CANCELLATION: Norfolk Southern Corporation (February 10)

**INFORMATION MEETING:** Hewlett Packard will hold an information meeting in the Civil Engineering Auditorium on February 10, 1983, 5:30-10:00 PM.

Following is a list of companies that will be interviewing during the week of February 21-25, 1983. (List subject to change)

**FEBRUARY 21**  
Aeronautical Systems - Wright Patterson AFB  
Analytical Sciences (TASK)  
Chevron  
Dept. of Defense  
Hallmark Cards  
Houston Lighting & Power  
Shell Oil Information Svcs.  
Texas Instruments-Semiconductor  
U.S. Naval Weapons-Fleet Analysis

**FEBRUARY 22**  
A.B. Chance  
Bendix  
Central Illinois Light  
Chevron  
Ralston Purina  
Shell Oil Information Svcs.  
Standard Oil of Tulsa  
Texas Instruments  
Tinker Air Force Base

**FEBRUARY 23**  
A.B. Chance  
Alcoa  
Bendix  
Coles Moultrie  
Kansas City Power & Light  
Smith & Loveless  
Texas Instruments

**FEBRUARY 24**  
Bendix  
E-Systems  
Kaiser Aluminum  
Kansas City Power & Light  
3M St. Paul, MN  
US Naval Weapons-China Lake  
**FEBRUARY 25**  
Bechtel  
Data General  
M.W. Kellogg, Inc.  
Stone & Webster  
U.S. Naval Weapons-China Lake

Signups for the following companies will be held on Tuesday, February 1, 1983, University Center West. Signups for morning interviews will be held from 8:30-11:30; signups for afternoon interviews will be held from 1:00-3:30 ONLY.

**PETRO-LEWIS CORPORATION, Denver, CO**  
Will interview SOPHOMORES in Petroleum Engineering for Roustabout positions in OKC, Lubbock, TX; Houston, TX; Billings, MT; Bakersfield, CA. US CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Interviewers: Tom Schroeder, Rene Dalgre  
Interview date: February 17, 1983

**CONOCO, INC., Ponca City, OK (Computer Services Department)**  
Will interview students who have completed their junior year in Computer Science for summer positions. Areas will include generation and maintenance of operating systems, consulting on languages, software packages and installation standards; hardware evaluation; performance measurement; forecasting; and budgeting.  
Location: Ponca City, OK  
Interviewer: Terry Whiteside  
Interview date: February 15, 1983  
INTERVIEWS WILL BE HELD IN THE AFTERNOON ONLY; AFTERNOON SIGNUPS ONLY.

**PUBLIC SERVICE COMPANY OF COLORADO, Denver, CO**  
Will interview students seeking BS/Electrical, Mechanical Engineering who will graduate in December 1983 or June 1984 for summer student engineer.  
Location: Denver, CO  
Interviewer: unknown  
Interview date: February 18, 1983

THE FOLLOWING COMPANIES WILL COLLECT RESUMES ONLY:

**ANALOG DEVICES SEMICONDUCTOR, Wilmington, MA**  
Will collect resumes from students in Electrical Engineering, Semi Physics, Physics, Chemical Engineering, Computer Science. Turn in on Tuesday, February 1, University Center West, during summer sign-up hours.

(SUMMER EMPLOYMENT SCHEDULE)  
page 2 - week of February 14-18

**STATE EMERGENCY MANAGEMENT AGENCY, Jefferson City, MO**  
Will collect resumes only from students who have completed one year of recognized engineering or architectural curriculum. 2.0 or better GPA required. Will survey commercial buildings for emergency shelter. Requires completion of home study course provided by Federal Emergency Management Agency. MUST BE MISSOURI RESIDENT. WILL ACCEPT ONLY 40 RESUMES. May be turned in on Tuesday, February 1, University Center West, during summer sign-up hours.

NOTE: Please fill out APPLICATION FOR THE FEMA SUMMER SHELTER SURVEY PROGRAM at time of signing back-up list.

**CONOCO, INC. (Natural Gas Products Div.), Houston, TX**  
Will collect resumes from students who have completed their sophomore year or above in Chemical, Mechanical Engineering for summer jobs in Texas, Oklahoma, Louisiana, New Mexico. May be turned in on Tuesday, February 1, University Center West, during summer sign-up hours.

PLEASE NOTE: CAREER DEVELOPMENT OFFICE WILL NOT HONOR HANDWRITTEN (OR OTHER) LISTS SETTING LINE SEQUENCE FOR SIGNUPS. THIS APPLIES TO BOTH MORNING AND AFTERNOON SIGNUPS. ORDER OF SIGNUPS WILL BE FIRST COME, FIRST SERVED.

## Calendar of Events

### SOUTHWINDS

Southwinds, the UMR Literary Magazine, will meet Wednesday, Feb. 2 in G-4 of H-SS. Meeting at 7 p.m. All interested people are invited.

## NODAY

### EIT

If you are a student graduating from an accredited engineering curriculum during the spring, summer, or fall, 1983, you are eligible

to apply for enrollment as an Engineer in Training. The Fundamentals of Engineering Examination will be given on Saturday, April 16, 1983, from 8 a.m. - 5 p.m. at UMR.  
The deadline for applications is March 2, 1983. Transcripts of grades need not be sent until after graduation.

### REGISTRATIONS

To register for interviewing for co-op positions for the spring, 1983 semester, the deadline date for registering will be Feb. 11, 1983. There will be no exceptions.

**70560**  
minutes till the **75<sup>th</sup>**  
**Best**  
**Euer**

## The Sewing Room Clothing Alterations

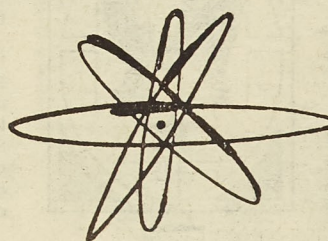
207 W. 11th St. Rolla 364-3922

8:00 a.m.-5:00 p.m.

Mon.-Fri.

9:00 a.m.-4:00 p.m.

Saturday



## Engineers: Find out about the Nuclear Navy.

If you think you have the ability and desire to master nuclear engineering, the Navy's Nuclear Propulsion Program has openings for about 200 outstanding college graduates. There's a Navy Recruiting Officer ready to give you all the details on how you can become someone special in the new Navy.

For more information call your Navy Programs Representative at (314) 263-5000. Call collect Monday-Friday from 8 a.m.-2 p.m.

## Johnny's Smoke Stak

Hwy. 72 & Rolla St. — Rolla, MO

Get Away From the Every Day  
With Our Great

All You Can Eat  
SUNDAY BUFFET

**\$5.95**

Includes Salad Bar, Ribs, Chicken, Ham, Burnt Ends,  
Corn on the Cob, Bread and That Ain't All!!



## Little known Rolla pastimes

By CHRIS DeGONIA

Are you just dying to know what exactly there is to do in Rolla for \$200 a day? "Who cares?" you say. There may be a few of you who do, but as far as the rest of us, we can just fantasize about

### Blue Key

## 50 years of service

By ROSS WARNER

Eight years after the creation of a national honor fraternity and service organization called the Blue Key, UMR started its own chapter. Fifty years later, many changes have taken place at UMR, but the Blue Key remains one of the most active groups on campus.

The Blue Key provides many beneficial services for students at UMR. The most popular one has to be the student directory, which lists local and home phone numbers and addresses of all students. Also included are listings of professors' offices and phone numbers. The directory is provided free of charge to all students, compliments of the advertisers. According to the organization's president, Barb Weiland, putting the directory together is a year-round job. However, she feels that most students would agree that the directory is very worthwhile.

Leadership forums for freshmen and sophomores are also provided by the Blue Key. Each campus organization, according to size, is allowed two-four people to attend discussions on various leadership topics. Students are chosen on their leadership abilities and taught how to use them for campus and eventually community leadership.

A resume service is another project undertaken

taking part in these breathtaking events.

—For starters, buy your textbooks for the semester. (A possible one-three days' allowance.)

—Then as soon as possible, play quarters at your favorite bar for 12 hours (or

until the first person falls off his or her bar stool.)

—Buy one of each item in every size offered this year by the St. Pat's Board.

—Take your fraternity brothers, sorority sisters, your dorm house or floor, your calculus class, or the

football team for dinner and drinks at Zeno's. (This will be a week's allowance so you must live frugally for the rest of the week.)

—Order a large pizza from each pizza place in town.

—Commute from Kansas City.

—Pay your share of the

month's rent if you live in one of the apartments or houses near campus.

—Take a carload of friends on a champagne flight to Laclede's Landing in St. Louis.

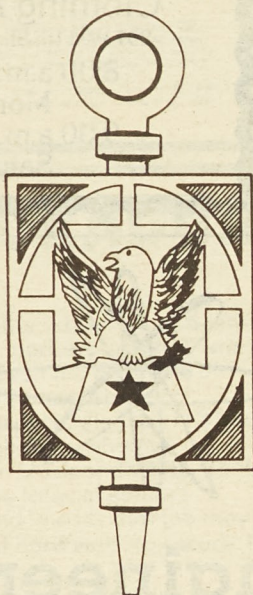
—Throw a Rolla-size US Festival.

—Reproduce all the dif-

ferent ways the dorms fix the infamous All-Purpose-Patty.

Here are a few of my ideas, but if any of these don't appeal to you, you'll just have to come up with your own. Either that or resort to that other well-known UMR pastime — studying!

by the Blue Key each year. When companies notify the school that they are hiring, the Blue Key sends resumes on all graduating seniors in that particular field. This service is provided to the company for a small fee, which has helped finance the organization for years. Vice President Darrell Moore feels that this is an excellent service, since it distributes resumes to hiring companies that students might not have been aware of.



Blue Key chooses the "Miner of the Month" from recommendations made by various organizations. Winners are chosen on the

basis of their assistance to the organization and UMR during the month. This is just another way for the Blue Key to recognize outstanding leadership on campus.

According to the Blue Key handbook, "Members are selected for this honor because they have shown character, outstanding ability, and recognized potential as future citizens and deserve the special attention of the faculty." Furthermore, a person must earn 40 "Blue Key points" to be considered for membership. This is accomplished by accounting membership and positions held in different organizations. A grade point of 2.75 is required with at least 60 hours of credit. Membership is not limited to any particular field of study. However, due to its charter, this fraternity is limited to 40 members.

Barb Weiland said that she is really proud of the Blue Key. She feels that the organization accomplishes a lot for the students of UMR. She concluded, "The main purpose of the Blue Key is campus service. I think we do a pretty good job of that."

The Blue Key is planning a celebration for its 50th anniversary. The current plans include an alumni banquet and possibly a campuswide party around Homecoming next year. Coordinator Sheila McDonnell said, "We are planning things, but nothing is definite right now."



Bruce West

First step in the campus pavement project. No more dirt paths in front of the Chem. Engineering Building!

### Theta Tau Omega to

## Hold interviews

Theta Tau Omega honorary fraternity will hold this semester's interviews for new members on Wednesday, Feb. 9, at TKE. On Saturday, Feb. 5, a smoker will take place at Kappa Sig where interested students will have an opportunity to meet Theta Tau's members.

Applications can be picked up at the candy counter in the University Center-East and can be turned in there or at the smoker. Applicants should have completed at least 50 credit hours.

Theta Tau Omega is a charitable as well as social organization and contributes

over \$5,000 annually to local Rolla charities. Its events include Casino Night, Hoedown, Pizza Night, an annual calendar of campus events, Homecoming Mums "Freshman of the Year" award and the sponsorship of the Theta Tau Omega Ugly Man contest each year.

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20 Video to choose from  
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27 Models in All!





Mark Vollmer

There are five animals hidden somewhere in this picture. Can you find them? Answers will be published next week.

SUB's Coffeehouse

# John Biggs

By JANET JANSEN

John Biggs, a guitar and banjo picker, singer, songwriter and humorist, will be the featured entertainer at the Student Union Board Social Committee's Coffeehouse at 8 p.m. Friday, Jan. 28, in Centennial Hall. John's act centers on folk, contemporary folk, country and bluegrass music. He says he "stole some of it ... and wrote the rest."

He is an accomplished guitarist. He also picks a pretty fair five-string banjo

— but his first love is singing and in that respect he is gifted with a strong, clear, yet warm voice.

Something special about John's show is what he does between songs. He's got a long repertoire of stories and yarns that will entertain and enchant all evening — and he relates so well to the audience that it might as well be on stage with him.

Friday night's show will be no exception. After past performances at UMR comments such as these were made: "Whether he is

singing a touching love ballad or telling a story, he holds the audience's attention and drives them to tears, laughter and applause. He has that rare quality that enables him to sincerely smile and joke with any audience."

Welcome John Biggs to Rolla once again for his entertainment is very much on the side of an enjoyable evening. Start it early and go to the Student Union Board Smoker at Sig Nu at 6. Refreshments will be served.

# Groundwaves

By GRIMICE

We join our Adventurer as he is about to begin his journey. A journey that will take him beyond the mundane and commonplace into a realm where all his senses are sharpened, but none more than the ability to hear and understand.

He pauses uncertain by the entrance; afraid and yet eager. He doesn't understand how, but he knows inside himself that he will not be the same at the end as he is now at the beginning.

The Adventurer finds himself opening the door. With the first step he realizes that some energy is drawing him in, not forcibly, for he

knows he can turn and leave if he chooses.

He walks down the corridor hearing music and voices grow louder as he continues. He comes to another door and pauses. The commotion he hears is of many people; each performing a job that seems unrelated to the next. Yet he senses the purpose behind their work, an energy that draws those of different backgrounds together.

He listens closer. There is arguing; personalities rubbing together like two pieces of sandpaper. But it is fleeting and is gone, replaced by the much more common sound of laughter.

Expecting stares from

those who are at home here, he opens the door and steps in. He is nervous, but that too is fleeting. He realizes that these people don't perceive him as an outsider, but rather as simply a new face. With this knowledge, he allows himself to relax a bit.

The walls now catch his attention. The creativity of what he sees refreshes him and he relaxes more. Now he hears the music. Music that is at times gentle and contemplative and at others is rough and energetic.

Understanding dawns in his mind and he sees. The energy that draws these people together is the music. And the music IS KMNR.

# Sweepstakes

Thousands of students throughout the country received a rare offer in the mail last spring. Seniors and recent college graduates could enter a sweepstakes with \$125,000 worth of prizes and have a chance to get a prestigious charge card.

The American Express "GIVE YOUR CAREER A CHARGE" sweepstakes was held twice this year. Entries for the fall sweepstakes are being tabulated now and winners will be selected by Jan. 28, 1983.

Over 900 prizes, carefully chosen to meet the needs of the career-minded graduate are available, include personal computers, \$2,000 wardrobes, designer attache cases and telephone answering machines.

The sweepstakes is designed to call attention to a unique program that enables graduates to get a head start on establishing themselves in the real world. In addition to sweepstakes

entry forms, mailing recipients will also get an American Express card application. Those who have begun or are about to begin a career-oriented job with a yearly salary of \$10,000 or more, have an excellent chance of being accepted for American Express card membership.

This opportunity to acquire financial recognition and establish a credit history early on is a welcome one according to past sweepstakes winners. Diane Gallo, University of Wisconsin, 1982, said, "I'd heard that you had to make over \$25,000

before you could be accepted by American Express." Diane, like many sweepstakes entrants, was delighted to discover that at least one financial institution considered her fiscally responsible even though she is right out of school.

DID YOU KNOW THAT...

According to some of our customers, we serve the most of the best for the least.

**LA POSADA**  
Hwy. 63 S. Rolla

# St. Pat's Facts

By MIKE SIMMS

Any organization that plans to nominate a student Knight to have a date with Alice should turn in entries on or before Monday, Feb. 14. Each entry should be accompanied by a 2-by-3-inch black and white photograph, a serious article of 25 words or less and a humorous one-liner to be used during the ceremony. Entries can be turned in to any St. Pat's Board rep or to Chris Woods, TKE, 1107 State St., 364-8115.

Don't forget, St. Pat's Queen entries are due no later than Feb. 10. If you have any questions, contact Gary Monroig at 364-0508.

The St. Pat's Participation Point totals from last semester are in. These point totals are based on St. Pat's Green Sales totals. If your organization is doing poorly, it isn't time to give up, it's time to get psyched and buy lots of Green. Any Green that is purchased from your organization's board rep boosts your organization's participation points and helps us put on the best St. Pat's ever.

1983		
Organization	Points*	Place
Delta Tau	155.35	1
Acacia	124.07	2
Pi KA	123.00	3
Theta Xi	119.40	4
Sig Chi Mu	106.45	5
Pi Kappa Phi	97.93	6
Beta Sig	97.00	7
KA	89.10	8
Sig Pi	83.48	9
Phi Kap	83.08	10
Kappa Sig	80.50	11
AE Pi	78.50	12
Triangle	77.28	13
Sig Ep	71.63	14
Sig Nu	61.28	15
Delta Sig	56.70	16
TKE	47.83	17
Sig Tau	39.18	18
TEC	34.74	19
Lambda Chi	14.93	20
Campus Club	14.50	21
TJHA	13.00	22
RHA	8.53	23

Sororities		
Organization	Points*	Place
ZTA	42.88	1
KD	35.93	2
Chi O	28.28	3

\*All figures are preliminary and should be used for comparison purposes only. Actual places will not occur until St. Pat's. There are only 49 days left

until the 75th Annual Best Ever St. Pat's Celebration. It's time to start getting ready now for the No. 1 party of the year.

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9:30-6:30 p.m. M-S 364-5356

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In Town  
Nightly Specials  
Dancing &  
Live D.J.s  
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Experimental Rotabaldes (10' long, 7" chord, 6061 T6, flush rivets). For gyrocopters and helicopters. Rotor hubs and Rotor heads for gyrocopters. Rotabaldes info. pkg. \$3.00. Offset Gimble Head Plans \$8.00. Hwy. 63 N. Rolla, MO 65401

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## Oriental Exhibition

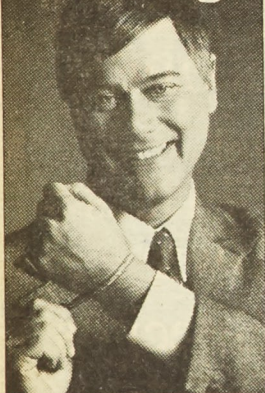
A special exhibition and sale of original Oriental art will be presented from 10 a.m.-5 p.m. Wednesday and Thursday, Jan. 26-27 at

UMR's University Center-West Lounge.

A representative from Marson Ltd., of Baltimore,

Md., will be on hand to answer questions about the collection of etchings, woodcuts, lithographs, serigraphs and paintings.

**"Snap out of smoking."**



"Whenever you feel like smokin' a cigarette, instead of strikin' up a match, strike up the band—the 'Larry Hagman Special Stop Smokin' Wrist Snappin' Red Rubber Band'. Get one free from your American Cancer Society."

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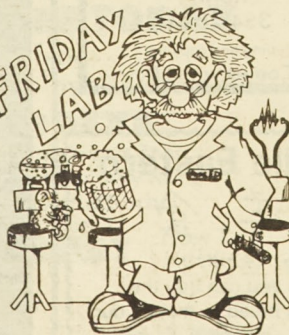
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FRIDAY  
LAB



TAVERN

Tough standards, but

# Students get in

NEW YORK, NY (CPS) — Despite increasingly tough admissions standards, most students who apply to college do get in. The reasons they choose to apply to certain colleges instead of others, however, have as much to do with their family backgrounds as with their academic skills, two recent studies by the College Board found.

Seventy-five percent of all freshmen applicants are accepted by the colleges they apply to, according to one of the studies which surveyed over 2,500 colleges and universities nationwide.

Two-year colleges admitted 95 percent of their freshmen applicants this fall, while four-year institutions admitted only 60 percent of all applicants.

But the study also found that half of all freshmen applicants this fall opted to attend two-year colleges, and that 90 percent of all freshmen at public institutions are in-state students.

Those figures support preliminary findings of

another College Board study which shows that, although it may be relatively easy for students to get into virtually any college they choose, most students psychologically restrict themselves to certain types of institutions.

Those results, study director Robert Zemsky says, "are significant as well as volatile."

People will be a little surprised and a little reluctant to accept the notion that educational accessibility is bound by social ordering," Zemsky says.

Students may have the opportunity to apply and gain acceptance at a wide range of institutions, he says, but

are in fact guided predominantly by their parents' income and educational background, and by the students' SAT (Scholastic Aptitude Test) scores.

Students whose families earned \$35,000 or more, whose parents both had bachelor's degrees, and who scored more than 1,000 on the SAT, will most likely apply to a nationally-known university, Zemsky reports.

On the other hand, students with lower family incomes, less-educated parents, and lower SAT scores will typically choose a college close to home and with a less exclusive reputation.

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Positions are also available in St. Louis.

Throughout our company, personal preference is matched with background and ability to provide challenging, interesting assignments. The group of professionals we hire today will have the opportunities to develop their careers based on an important team effort. We'll be on campus:

**Tuesday, February 8th  
Wednesday, February 9th (COOP)**

Stop by the campus placement office to sign up for an interview. If you are unable to meet with us, send your resume to: Ms. Susan M. Bornholdt, Employment Representative; UNION ELECTRIC COMPANY; P.O. Box 149; St. Louis, Missouri 63166; (314) 554-2579. An Equal Opportunity Employer M/F.

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# IEDS CLASSIFIEDS CLASS

There will be a meeting of the Hand-held Computer Club at 7 p.m. in 103 EE, Feb. 3. Nominations for officers will be made and a discussion about presently available Hand-helds will be started.

**FOR SALE:** Marantz 250 M power AMP 125 watts per channel. Mint condition. Call Art 364-8291.

**TYPING SERVICE:** Please see Charlotte at 108 Engineering Mechanics or call at 341-4581 before 4:30.

Come see the movie "Givers, Takers, and Other Kinds of Lovers." It will be shown at 7 p.m. Friday, Jan. 28. Admission is free. It will be in the Missouri Room of the Student Center.

Tommy K.,  
Happy Birthday, sweetheart!

Love,  
Kimberly

Dear D.O., T.H., T.C., L.C., T.L., J.M., A.H., We'll be interested in you. I hope you mommas are good cause we BAAAD!

Leroy, Tyrone, Lamont and the Rest  
Of All the Fourth Floor Brothers

P.S. Not too cool girls — we don't care how it's done.

**WHY ARE YOU JOBLESS?** Learn how to have an effective interview. "Interviewing Techniques," by R.D. Breedlove; interviewer for Missouri Pacific Railroad. A live interview will be demonstrated also. Wednesday, Feb. 2, 7 p.m. Room 114 Civil Engineering Building. Sponsored by the Institute of Transportation Engineers. Everyone welcome!

GDI is once again out to prove who the hardest partiers on campus are with our one and only Party, Party — Party. Stay up drunk or pass out on the floor we don't care. Just come on out to TEC Jan. 29, Saturday, at 7 p.m.-1:30 a.m. and have a real good time.

We would like to thank all the CHI OMEGAS for their loyal support of our basketball games. We are very proud to be a part of this sorority.

Poopsie and Stew

To the 3 "J's" (and I don't mean Jeanne, Jamie and Janet):

What's the deal with the Golden Arches? Do you own stock in the company or what? At least you didn't stop at the one in St. Robert too!

H.B.,  
Thanks for being you.

Love, HLK.

Congratulations to the new I's of Sigma Chi Mu.

Love,  
The Little Sigmas

Steve alias Big Red drove the porcelain bus Jan. 19, 1983. Your work has been enshrined.

Dear First-Floor TJ Girls,  
It's better than what on the bottom?

—Potential Consumers

Congratulations Cindy and Mark!!! It was hard to keep a special thing a secret. We hope that this leads to bigger and better things.  
"The Other Couple"

Dianne V.,  
I'm glad that you're back. Please smile and at least say Hi,  
A smile and words I do not lack,  
But I can be a little bit shy!

The Curious One,  
Boop De Button

**For Sale:** Audio Control D-10 Equalizer, 10 band octave equalizer, still under warranty, price \$150,000 or will trade for a SONY equalizer. Call Pat at 341-3926.

**WANTED:** Part-time office help (apprx. 10 hrs.) Call 341-3766.

JOY Lutheran students will be having a \$1 cost supper on Jan. 30 at 5 p.m. at the Lutheran Campus House. Following the supper, Rollamo pictures will be taken and there will be a meeting. Please attend.

Need ride to Kansas City (Independence) this weekend. Warrensburg is acceptable. Call 364-9796 and ask for Chuck, Room 109 (Kelly House B).

I have a full set of Beatles albums for sale. If interested, call Dave at 364-5165.

**ATTENTION:** Be sure and watch for Sigma Chi Mu's second Annual Air-Band contest.

Becky,  
Sorry, but Smurfy is in love with you.

Will the girl in the yellow Volkswagen who gave me a ride down to Villa Trailer Courts Sunday night, give Mark a call at 341-4894 after 6 p.m. I think I left my heart in your front seat.

To all UMR students and faculty,  
Happy Black History Month to you. In a country where my great-grandparents were born slaves and the rest of my ancestors are unknown to me, I am proud to be one of the few black faces on this campus. Progress is slow, but, like air we rise. We have endured over 200 years of slavery, and we will not endure one hour more. Never forget who you are. Rejoice, stand tall and be counted proud, black and beautifully.

C.K.

To the 1st Floor TJ Girls who placed the ad,  
A lot of talk, and no action. You were sincerely invited to our party, and not one of you showed up! You have no room for complaining!  
The Men of House A

R of R,  
Rastafarians of Rolla unite. We must no longer be subjected to the plasma fix of the highman in the clouds. Feel the pavement beat to our rhythm. Come to the R of R meeting in the hemp fields behind Parker Hall. Elections will be held for Master Herbsman, Supreme Brother and Head Mon. We must unite against the suppression and drink from The Rivers of Babylon.

Let Jah be praised

To the Rolla guys,  
You may think that guys out number girls at this school. But we have discovered that when including only nice guys, the girls out number the guys by at least 50 to 1.

Signed,  
Two girls that realize ANY girl who comes down to Rolla for her MRS is a fool.

## Party Line

The Missouri Miner will print free of charge any party announcement for campus organizations which are submitted before 9:00 p.m. Monday at the Miner box in the Rolla Building. Announcements should be submitted a week before. Hand in announcement in paragraph form with complete sentences (Read: no flyers). We cannot print prices for alcoholic beverages.

GDI  
GDI is having a Party, Party, Party, — Party at TEC Saturday, Jan. 29, from 7 p.m.-1:30 a.m. Come on out and show your party spirit.

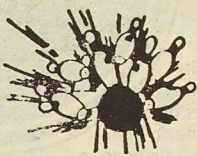
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**Colonial Lanes**

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**The Great Weekend Double Treat  
Enjoy Pizza & Bowling Two Ways...**

Go to Pizza Inn and enjoy a delicious hot pizza, and with the purchase of a medium or small pizza receive 1 free game of bowling at Colonial Lanes; with the purchase of a large Pizza Inn pizza, receive coupons for two free games of bowling.

OR

Go to Colonial Lanes and bowl three or more paid games (open play) and receive a coupon for \$1 off a medium or \$2 off a large Pizza Inn pizza.

Let the fun times roll this weekend with pizza and bowling compliments of Pizza Inn—Hwy. 63 N. & Pine  
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at these locations:**

**209 Tavern  
The Pub**

**Top Hat  
509 Package**

**Distributed by Fred Voss Enterprise.**



Stalking

# The Wild Job

By MIKE STRODER

We are in a period where jobs, even for engineers, are hard to come by. Some folks have little to worry about in this respect. I am, of course, speaking of those with 3.5 or better GPAs, glowing references from all directions and memberships in every honorary organization known to mankind. This article is not for them. This article is for folks, somewhat like yours truly, who suddenly realize that their GPAs can never rise above 2.6 even if they make straight A's and that their only honorary distinctions involve alcoholic beverages. The current job squeeze hits these people hard. Are they destined to work the night shift at the Taco Bell? If you are in this position, the trick is to "sell yourself" to potential employers.

First, you will need a resume. If your accomplishments could fill only a postage stamp, then you need some strong selling points. Drop names and hint of connections to corporation heads and high-ranking government officials. Inventing prestigious summer jobs may also help. You may find an interviewer who has to meet the crackpot who would list "Chairman of the Board, Mobil Oil Co." as a summer job on his resume.

Once you are armed with a list of your feeble accomplishments, the next hurdle is distribution. Your resume must be seen by as many people as possible. No method of distribution

should be overlooked. Go to parking lots and put a resume under the windshield wiper of big and important-looking cars. Leave them lying in elevators. Put one on the bulletin board at the laundromat. Mail them to corporate heads and write

"YOU MAY HAVE ALREADY WON \$100,000!"

on the envelope. Better yet, write "Office of Internal Revenue" on the envelope. The boss will be sure to open that!

Once they have allowed you to put your foot in the door, it is up to you to make the most of your interview. Research on the interviewing company is vital. Time spent searching through tax records, federal regulations, political and social affiliations, and even personal habits is time well spent if you discover that lever that allows you to pry your way into an office job raking in \$40,000 a year for making paper airplanes under the guise of "Aerodynamics Research." In case the search for dirt is futile, there are several modes of attack.

One of these is the "desperate man" approach. First, learn how to smile like Jack Nicholson in "The Shining." It can be an invaluable asset when your interviewer is trying to decide whether to give you a job for fear of his life or to notify the authorities. Make notches on your resume and tell your interviewer that

they represent the last few interviewers that, unfortunately for them, refused to hire you. Flash the smile again. Your interviewer should be sweating blood by now. A small froth in the corner of your mouth is a nice touch, but take care not to overdo it. Take hostages only as a last resort.

A second approach is the "You need ME" approach. Mention that you have access to documents of competitors and list your job preference as "Industrial Espionage." Act as if you are constantly checking for bugs. Mention your links with the FBI, CIA and IRS. Remember, there are plenty of R&D men, but few good spies.

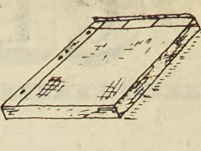
Just a few of the many helpful hints to a job are listed here, but these techniques are guaranteed to produce results. Either a cushy job or a stretch in the state pen can soon be yours. Good luck and remember:

Sell yourself, and the Taco Bell or the 7-11 need never know of your talents.


**EE FLIPPER'S**

**FAMOUS ART SCHOOL**

THIS WEEK:  
**HOW TO DRAW AN ENGINEER'S PAD**



**WRONG**

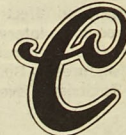


**RIGHT**

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valuable on-the-job business experience and earn a rewarding salary. And because the job hours are flexible, you can work around your class schedule. You'll also enjoy the extra bonus of meeting new people all over campus.



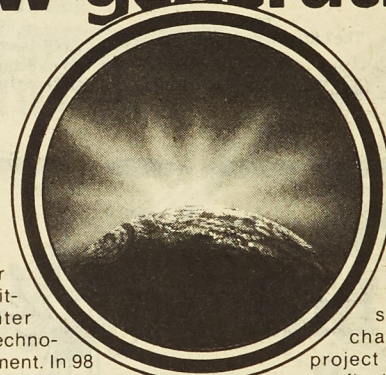
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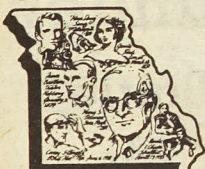
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# Letter to the Editor

Dear Editor,

I am a prisoner on death row at the Arizona State Prison and I was wondering if you would do me a favor. I have been here for quite awhile and I don't have any family or friends on the outside to write to so what I was wondering is if you could put an ad in your campus newspaper for me for correspondence. If not in your paper then maybe you have some kind of bulletin

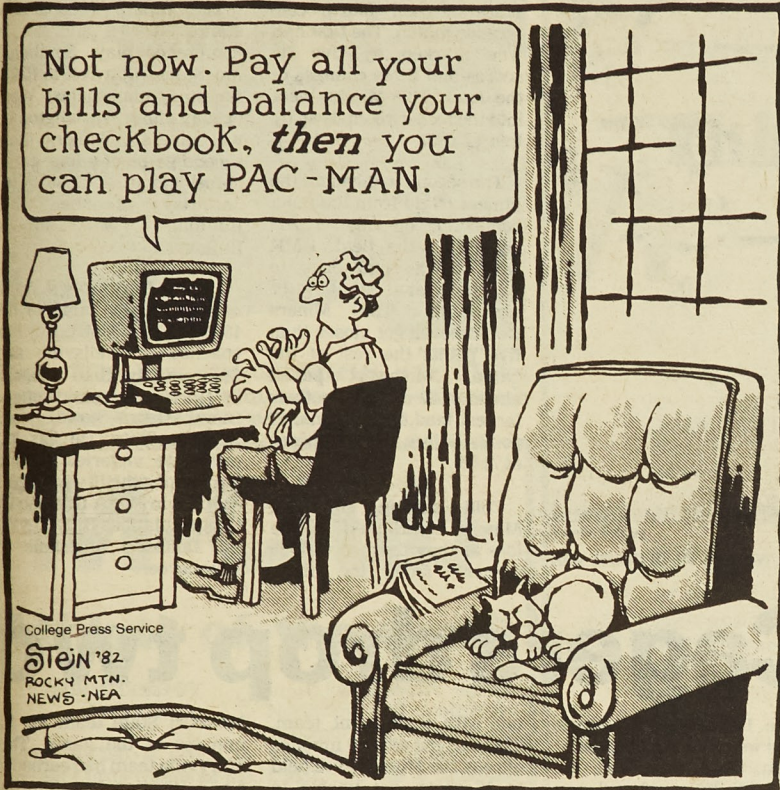
that you could put it in. I know that you are not a penpal club or anything like that, but I would really appreciate it if you could help me.

Since I don't know if you have an actual newspaper, I will just make a small ad and then if you have to change it around or anything go ahead and do what you need to.

Death Row prisoner,

caucasian male, age 35, desires correspondence with either male or female college students. Wants to form some kind of friendly type relationship and more or less just exchange past experiences and ideas. Will answer all letters and exchange pictures. If interested write to Jim Jeffers, Box B-38604, Florence, AR 85232.

Sincerely yours,  
Jim Jeffers



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NEWS-NEA

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### UPCOMING STEAMERS' HOME GAMES

Date	Opponent	Time
Fri. Jan. 28	Buffalo Stallions	7:35 p.m.
Sun. Feb. 6	Los Angeles Lazers	2:05 p.m.
Wed. Feb. 9	Pittsburgh Spirit	7:35 p.m.
Fri. Feb. 18	Kansas City Comets	7:35 p.m.
Wed. Mar. 2	Phoenix Inferno	7:35 p.m.
Fri. Mar. 4	Buffalo Stallions	7:35 p.m.
Fri. Mar. 11	Golden Bay Earthquakes	7:35 p.m.
Wed. Mar. 16	Los Angeles Lazers	7:35 p.m.
Sun. Mar. 20	Chicago Sting	2:05 p.m.
Fri. Apr. 1	New York Arrows	7:35 p.m.
Fri. Apr. 8	San Diego Sockers	7:35 p.m.
Sun. Apr. 10	Kansas City Comets	2:05 p.m.
Sun. Apr. 16	Wichita Wings	7:35 p.m.

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### MINORITY AND WOMEN ENGINEERING PROGRAM TUTORIAL SERVICES Spring 1983

TUTORING IS AVAILABLE FREE OF CHARGE TO ALL STUDENTS

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Pat Kelly Physics, Math EE 281, 265, 267 302 Rolla Building	2:30 p.m. to 4:30 p.m.	3:30 p.m. to 5:30 p.m.	2:30 p.m. to 4:30 p.m.		
Lester Gregory EE 61, 63, 281, 265 302 Rolla Building	2:30 p.m. to 4:30 p.m.		2:30 p.m. to 4:30 p.m.		
Denise Rost Mathematics 302 Rolla Building	1:30 p.m. to 3:30 p.m.	2:30 p.m. to 4:30 p.m.		2:30 p.m. to 4:30 p.m.	
David Hendricks EM 50, EM 150, Math 302 Rolla Building	11:30 a.m. to 1:20 p.m.	11:00 a.m.- 12:20 p.m. & 1:30 p.m.- 3:30 p.m.	7:30 p.m. to 9:30 p.m.	11:00 a.m. to 12:20 p.m.	
Dale Abrahams Chemistry 1, 3 Chem Eng 20, 27, 141, 143, 253 302 Rolla Building	2:30 p.m. to 5:30 p.m.		2:30 p.m. to 5:30 p.m.	3:20 p.m. to 5:30 p.m.	
Chandrashekhar Bapat EM 50, 110 & 150 Math, Physics 302 Rolla Building	1:30 a.m. to 3:30 p.m.	6:00 p.m. to 8:30 p.m.	1:30 p.m. to 3:30 p.m.	3:30 p.m. - 4:20 p.m. & 6:00 p.m. - 8:00 p.m.	
Vincent Rogers Math 8, 21, 22, 204, Physics 23, 24 302 Rolla Building		11:00 a.m. to 12:30 p.m.		11:00 a.m. to 12:30 p.m.	
Larry Beck English 1 & 60 Economics 110 & 111		2:30 p.m. to 4:30 p.m.		9:00 a.m. to 11:00 a.m.	
Chemistry Society 127 Chem Eng		7:00 p.m. - 9:00 p.m.		7:00 p.m. - 9:00 p.m.	
KME Math Help Sessions Room 209 Math/CS	6:30 p.m. to 8:00 p.m.			6:30 p.m. to 8:00 p.m.	

NOTE: Students needing tutorial services in courses not listed above should contact Floyd, Al or Brenda at the Minority Engineering Program Office. For evening tutoring, please use the west door of the Rolla Building.

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## Miner upset gives Key 500th win

By SCOTT WHITE

Coach Billy Key notched his 500th career victory following UMR's impressive come-from-behind victory over UMSL Wednesday night at Rolla.

The Miners fought back from a 66-53 deficit after 10 minutes into the second quarter with 12 unanswered points to knot the score at 67-67 with five minutes left in the game. Curtis Gibson, who led the comeback with eight of the points, finished the rally with a stuff shot to tie the score.

Stan Shuemaker put the Miners ahead to stay, 75-74.

### Swimmers

## Fall to Drury

By GILL KAUFFMANN

Last Friday night the UMR swimmers traveled to Southwest Missouri State, where they fell to SMS by a score of 91-39. Saturday they traveled to Drury College where Drury avenged an earlier loss to UMR. They battled Rolla neck and neck the whole meet. Then it came down to the final race, the 400-yard freestyle relay, in which Drury defeated the Miners 58-46.

After a week of hard workouts of 12,000 yards or more of swimming each day the Miners faced a tough time as SMS provided rough competition by taking nine firsts and eight seconds out of 13 events. Dave Byers and Mike Abland each tallied up

with an 8-footer from the baseline with a minute left in the game. The Miners coasted in the last minute on a basket by Schuemaker and two free throws by Rickie Cannon to make the final score 79-76.

The Miners were led by the hot shooting of Rickie Cannon. Rickie converted 9-of-11 field goals and 7-of-7 from the free-throw line to finish with 25 points. Curtis Gibson followed with 20 points and eight rebounds. Todd Wentz finished with 16, Kris Stange with eight, Stan Schuemaker with six and Rob Goodenow with four to round out the Miners' scoring.

The Miners shot an impressive 60 percent from the

field and 74 percent from the line for the game. UMSL was

equal to the task finishing with 66 percent from the field and 60 percent from the line.

On Saturday UMR traveled to Maryville, Mo., to take on Northwest Mo. State in their fourth conference match. The first half was marked by five tie scores and three changes of the lead. The Miners went into the locker room down by four at 31-27.

The second half caught the Miners frigid from the field, connecting on only 36 percent from the field. UMR was able to pull back to within two at 41-39 with 14:02 remaining. The Miners would never get closer than five points the rest of the game. Northwest pulled ahead 67-52 at 1:39 for their largest lead of the game, 15 points before the final score of 71-58.

Cold shooting for the Miners contributed to the loss as they finished with 38 percent from the field.



Mark Vollmer

Kris Stange puts up two in last week's 79-76 upset win over UMSL.

## Lady Cagers drop two

By NANCY REITER

The Lady Miners, in action last week, dropped two games to pull back to a 7-6 record. In each of its recent contests, the team seems to have been actually playing in more of the game. Against Evangel UMR put in about 10 minutes of the 40-minute game, which turned out to be enough for a victory in that

case. In the following games they were not so fortunate.

On Wednesday, Jan. 19, the Lady Miners played very well and kept with a tough UMSL team all through the first half (20 minutes, this time). The halftime score was 30-29 UMSL, but the Miners had led most of the early game.

Again, after the half, Coach Cathie Schulte came

out with a different team. Through the next 20 minutes of play the Miners were held to 16 shots, yet unable to suppress the Riverwomen's offense. The final in the game was 67-46, UMSL. Miner top scorers were Terry Bond at 11 and Laurie Behm with 10.

On Saturday, Jan. 22, UMR was able to play right with a very good Northwest

usually solid performance with 26 points, 12 rebounds and three steals to lead the Miners. Todd Wentz was the only other Miner in double figures with 10 points.

The Miners' record now stands at 10-6 and 2-2 in conference play. Southeast Mo. State will travel to Rolla for an 8 p.m. contest Wednesday night. Washington U. will give the Miners their second game of a four-game home stand at 7:30 p.m. Saturday at the Gale Bullman Multi-Purpose Building.

Coach Billy Key's 500th career victory came in his 18th season at UMR. Key has coached at Wellsville and Monroe City High Schools, at Harris Teachers College (now Harris-Stowe) and Nicholls State. He has 332 collegiate victories placing him among the 10 winningest coaches in NCAA Division II. Congratulations Billy Key on the fantastic milestone in your career.

see Cagers

page 16

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# Inactivity slows Intramurals

## Men's

By PATRICK STUMPF

As a result of varsity play

in both basketball and wrestling, little action has taken place in intramural basketball.

Since there has been such inactivity on the courts, I will take this opportunity to provide some scouting reports on this year's basketball season. In Division I, League I, MHA East, Beta Sig and Wesley appear to be the teams to contend with. In League II, Pi KA has improved themselves, as have ABS, KA Psi and Sig Ep. Meanwhile in Division II, GDI

appears to be the power in League I. In League II, KA and MHA West seem to be the best in an otherwise lackluster bunch. I will provide playoff predictions in a later issue.

Venturing outside the bounds of intramural competition, I will make a prediction on this Sunday's Super Bowl. Miami has the best defense in the AFC and some fine coaching from

two-time Super Bowl winner Don Shula along with explosive offensive weapons in Duriel Harris and Andra Franklin. Washington, however, with strong play from both offensive and defensive lines and the excellent field leadership of Hollywood Joe Theismann, should be able to put enough points on the board to defeat the Dolphins. My pick: The fun bunch 'skins by 3.

## Women's

By NANCY REITER

The 1983 women's intramural season started Tuesday with the first basketball games. Last

see IM

page 16



Nancy Winkler

Coach Billy Key, athletic director and UMR's basketball coach of 18 years, collected his 500th career victory last Wednesday. (See story page 14.)

## M-Club

### Athlete of the week

SUBMITTED BY  
M-CLUB

The M-Club is proud to present Curtis Gibson of the Miner basketball squad as UMR's outstanding athlete of this week. Over the past week Curtis scored 26 points

in a losing effort against Northwest and contributed 20 points in the Miner come-from-behind victory over UMSL. He had a combined total of 12 rebounds and seven steals in the two games. Congratulations Curtis!

## Attention Varsity Golfers

By GIL KAUFFMANN  
For all those interested, there will be a varsity golf meeting Tuesday, Feb. 15, at 3:30 p.m. in Coach Mercier's

office, which is located in the basement of the Gale Bullman Multi-Purpose Building. All potential golfers should attend.

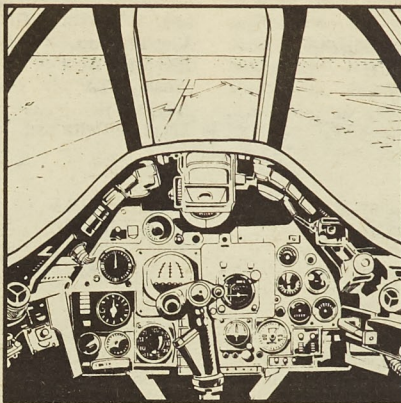
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# 1983 Intramural Basketball Schedule

	EAST	WEST		EAST	WEST
Jan. 27	6:15 Phi Kap-Acacia 7:15 MHA West-Theta Xi 8:15 Sig Pi-Delta Tau 9:15 CCH-BSU 10:15 GDI-Triangle	Wesley-Sig Nu ABS-Sig Ep MHA East-TKE Tech Eng-Lambda Chi KA-A E Pi	Feb. 10	7:00 Sig Nu-Beta Sig 8:00 Newman-Delta Sig 9:00 AWS-Stardusters* 10:00 Sig Pi-Acacia	Sig Ep-Pi KA KA Psi-Sig Tau TJHA-ZTA* CCH-Theta Xi
Jan. 31	7:45 Newman-Campus 8:45 TJHA-Wesley* 9:45 Pi Kap Phi-Acacia 10:45 Sig Chi-Theta Xi	KA Psi-Kappa Sig Stardusters-ZTA* TJHA-Sig Nu RHA-Sig Ep	Feb. 14	7:45 Triangle-Phi Kap 8:45 Campus-Delta Sig 9:45 Pi Kap Phi-Viet 10:45 GDI-Sig Pi	A E Pi-MHA West Kappa Sig-Sig Tau Sig Chi-ISC KA-CCH
Feb. 1	7:45 Viet-Delta Tau 8:45 Beta Sig-Wesley 9:45 Pi KA-ABS 10:45 ISC-BSU	Phi Kap-Sig Pi MHA West-CCH MHA East-Campus Tech Eng-Kappa Sig	Feb. 15	7:45 *White Stars-ABS 8:45 TKE-Newman 9:45 MHA East-Beta Sig 10:45 *Stardusters-Wesley	*RHA-KD Lambda Chi-KA Psi Tech Eng-Pi KA *ZTA-AWS
Feb. 3	6:15 White Star-Chi O* 7:15 Newman-Sig Nu 8:15 KA PSI-Sig Ep 9:15 Sig Tau-ABS 10:15 Delta Sig-Wesley	ABS-KD* TJHA-Beta Sig RHA-Pi KA GDI-Acacia KA-Theta Xi	Feb. 16	6:15 Wesley-TJHA 7:15 Acacia-Viet 8:15 Sig Nu-Delta Sig 9:15 Triangle-Pi Kap Phi 10:15 Campus-TKE	ABS-RHA Theta Xi-ISC Sig Ep-Sig Tau A E Pi-Sig Chi Kappa Sig-Lambda Chi
Feb. 7	6:15 Pi Kap Phi-Sig Pi 7:15 Sig Chi-CCH 8:15 TJHA-AWS* 9:15 Campus-Sig Nu 10:15 Kappa Sig-Sig Ep	Viet-Phi Kap ISC-MHA West Wesley-ZTA* A E Pi-BSU Triangle-Delta Tau	Feb. 17	6:15 BSU-Sig Chi 7:15 ABS-KA Psi 8:15 *TJHA-Stardusters 9:15 Sig Nu-TKE 10:15 *RHA-White Stars	Acacia-Triangle Delta Tau-Pi Kap Phi *AWS-Wesley Sig Ep-Lambda Chi *ABS-GDI
Feb. 8	7:45 TKE-Wesley 8:45 Lambda Chi-ABS 9:45 MHA East-Sig Nu 10:45 Newman-Beta Sig	Delta Sig-TJHA Sig Tau-RHA Tech Eng-Sig Ep KA Psi-Pi KA	Feb. 21	7:45 CCH-ISC 8:45 *Chi O-ABS 9:45 Phi Kap-Delta Tau	Wesley-Newman *GDI-White Star BSU-MHA West
Feb. 9	6:15 RHA-Chi O* 7:15 Campus-Beta Sig 8:15 GDI-Delta Tau 9:15 TKE-TJHA 10:15 MHA East-Wesley	GDI-KD* Kappa Sig-Pi KA KA-BSU Lambda Chi-RHA Tech Eng-ABS	Feb. 22	7:45 Pi KA-Sig Tau 8:45 KA-MHA West 9:45 *AWS-Stardusters	White Stars-ABS* TKE-Newman MHA East-Beta Sig

to be continued ...

## IM

from page 15

Thursday's games have been rescheduled during the latter part of the season. The basketball layup relay sponsored by McDonald's started at last night's varsity women's basketball game. Watch for the relay at the upcoming home games.

## Cagers

from page 14

game the Miners were just one point behind with a 52-51 score. "After that," Coach Schulte stated, "they just got cold." In the remaining time, the Miners were outscored 25-7 for a 77-58 final. High scorers for UMR were Stacey Stover (12), Laurie Behm (12) and Gail Halsey (10).

Schulte commented that her team was "getting closer to playing a complete game." She expected a tough contest Wednesday against Southeast. Cape lost to CMSU by a 92-85 margin in overtime. The CMSU team is ranked fifth in NCAA Division II. And so, conference play continues.

## GRADUATE ASSISTANTSHIPS AND COOPERATIVE EDUCATION POSITIONS

The University of Alabama in Huntsville is recognized as a quality institution closely related to the growth and development of high technology in North Alabama.

Teaching and research assistantships are available for the 1983-84 school year in the following areas of study:

Administrative Science	Engineering
Biological Sciences	History
Chemistry	Mathematics
Computer Science	Nursing
Developmental Learning	Operations Research
English	Physics

An assistant may pursue a master's degree in any of the above or the Ph.D. in computer science, engineering, or physics, and a cooperative Ph.D. in mathematics and chemistry. The number of assistantships in a program depends on the availability of funds.

In many curricula, an assistantship may be combined with the graduate level co-op program. Assistantship stipends start at \$5,000 per academic year plus tuition. Up to \$15,000 may be earned when the co-op is combined with an assistantship.

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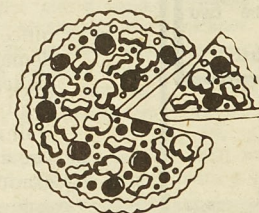


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# The Beat



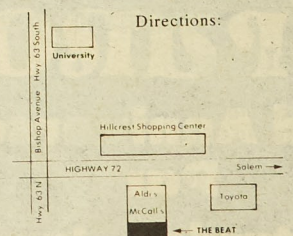
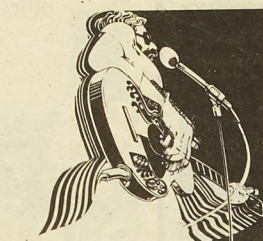
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