



29 Sep 1983

## The Missouri Miner, September 29, 1983

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# MISSOURI MINER

For the students of UMR

Volume 72, Number 5

Thursday, September 29, 1983

Sixteen Pages

V.H. McNutt Hall

## Mineral Building to be named

OPI

Rolla, Mo. --The University of Missouri-Rolla's planned Mineral Engineering Building will be designated as Vachel H. McNutt Hall in a ceremony at 11 a.m. Tuesday, Oct. 4, at the future site of the building on the northwest edge of the campus.

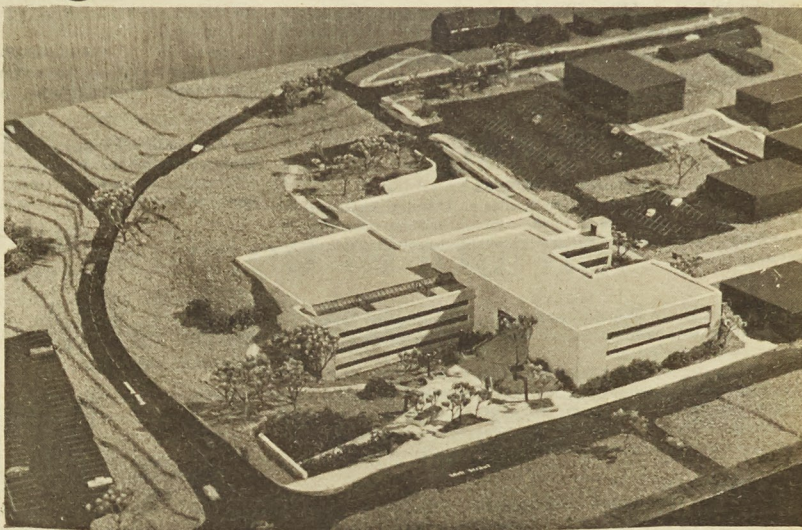
Among those taking part will be Amy Shelton McNutt, San Antonio, Tex., widow of Vachel Harry McNutt for whom the building is to be named. McNutt, a UMR alumnus and former geology instructor, was a pioneer economic geologist who discovered numerous oil and gas deposits and the first commercial deposits of potash in the Western Hemisphere. Others

on the program will include UM President James C. Olson, UM-Rolla Chancellor Joseph M. Marchello, and Dean Don L. Warner of the UMR School of Mines and Metallurgy.

The name of the building, which was recommended by the UMR campus and its School of Mines and Metallurgy, was approved by the University of Missouri Board of Curators in May. It will house classrooms, teaching and research laboratories and faculty offices for the School's six mineral engineering and earth science departments: geology and geophysics, and ceramic, geological, mining, metallurgical and petroleum engineering, plus offices for the School of Mines and Metallurgy.

The building and equipment are expected to cost about \$18.5 million, with private contributions to make up 20 percent of the total. In June UMR's goal of \$3,775,000 in private contributions was surpassed with a gift of \$2 million from the V.H. McNutt Foundation for equipping the building. The state portion of the funds, \$14,680,000 was authorized by the Missouri Senate in the second session of the 81st General Assembly.

The V.H. McNutt Memorial Foundation was established at UMR in 1961 by Mrs. McNutt in memory of her late husband. More than 500 students have been helped by see McNutt Hall page 12



Eric Gieseke

## Elevators installed for Physics, EE

BY PAUL McLAUGHLIN

There have been a few improvement projects on campus of late that have been hard not to notice. Some of the projects are routine maintenance, but others involve major additions or repairs, say the various people in charge.

The major additions or repairs are: elevators for the Physics and Electrical Engineering Buildings, division of the University Center-West's lounge to make office space, and major roof repairs on Thomas Jefferson Hall.

John Vaughn, Director of Resource Management and Administrative Planning, says that the purpose of the elevators is "to make our accessibility for the handicapped meet State standards."

Bob Marlow, director of Plant Facilities, adds that the access will serve other purposes. "Not only is [the present situation] inconvenient for people, but it is also inconvenient for moving equipment."

The cost of the two elevators is placed by John Vaughn at \$370,000 combined.

So far, most of the work has been concentrated on building the ramps up to the building to bypass the outside steps.

Marlow points out that an interesting feature of these ramps will be that they will have heating elements built into the concrete. These will be used to keep them ice-free in the winter.

The roof maintenance on the library falls into the cate-

gory of major repairs, said Marlow, and the contract for replacing the entire roof is \$80,000.

Another feature that will be added to most of the UMR buildings is fire alarms for the hearing impaired. Marlow says that these will give a visual signal in addition to an audio. They should be in all the student used buildings within two or three weeks he adds.

The lounge of the University Center-West is being partitioned off into two offices and one slightly smaller lounge, says Jess Zink, Director of Auxiliary Services.

The two offices will house Kathie Laue and Frank Haston. Laue is in charge of the reservations for the University

Center and will operate her computer from this new office. Haston works half time in Mines and Metallurgy and as Coordinator of Educational Programs and Activities.

The lounge will still provide seats. A wall rail will be installed with the idea of protecting art exhibits from rough handling, adds Zink. Also, the

entrance to the lounge is having a wall and lockable door put in with the idea of locking up after hours to protect art-work.

The repairs on TJ involve major roof work and some "routine" upkeep of other parts. These other parts are, namely, the parking lot, which needed resealing and painting

[this has already been done]; the rails on the balconies on the North Tower, which needed painting [done]; a vinyl wall covering for the first floor; ceiling tile upkeep; and floor covering for the basement. The public restrooms also need to be upgraded for the handicapped.

The roof work will have to

be done as a larger project, says Zink, because more than upkeep is required. There have been reports of water leaks. Thus, a contractor is being brought in to put a whole new roof on. This is expected to run well over \$100,000, and, therefore, approval for the project has had to come from the Board of Curators.

## Women's Council activated

BY PHYLLIS HARSTER

The UMR Women's Council has been activated again this year. They have an exciting series of programs planned for the Fall Semester. The programs will deal with services for women

at UMR and in the community.

Women's Council will be meeting every Monday at 4:30 p.m., in Library Conference Room 202. The public is encouraged to attend.

Their first program will be presented by Kate Hayles on

October 3, and is entitled "Study Programs for Women at UMR."

Women's Council officers are: Betsy Revard, Rita Gautrey, Jenny Brand, Phyllis Harster, and Vicki Joslin. Their faculty advisor is Dr. Liz Cogell, of the English Department.

On October 10, Coach Cindy

Maulin will present, "Physical Fitness for Women."

The following programs will be: Oct. 24—"Women and Good Health," Nov. 7—"Political Opportunities for Women," Nov. 14—"Educational and Financial Opportunities for Women," and Nov. 21—"Mental Health Services for Women."

## ChE Prof. visits from Ireland

Rolla, Mo. —Although chemical engineering education is different from country to country, the core course content is much the same, according to Professor J.P. O'Donnell, professor and chairman, chemical engineering department, University College Dublin, Ireland.

O'Donnell lectured on "Chemical Engineering Education in Europe" Sept. 19 at the University of Missouri-Rolla under a Smurfit-Alton Packaging Fellowship.

"The core curricula for chemical engineers in most countries call for courses in basic sciences, applied sciences, and design and related subjects. The differences are largely in the amount of time allotted for a degree course, teaching methods and examination procedures, and amount of time devoted to laboratory and design work," he said.

see Curriculum page 4





# 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 Sunday at 8 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 Sunday at 8 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

### GDI - INDEPENDENTS

There will be a General Membership Meeting on Thursday, September 29th. The meeting will be held at 7 p.m. in the CE Building, room 114. Memberships, Door Prizes, and refreshments will be available. Everyone is welcome to attend.

### M-CLUB

M-Club meeting at 7 p.m. on September 29 in the CE Auditorium. Homecoming Buttons are to be distributed — bring a bag to carry them in.

### MSM CLIMBING CLUB

The MSM climbing club will meet tonight at 6:30 p.m. in room 305 of Norwood Hall. Twentieth Anniversary shirt orders will be taken — bring your checkbook. The trip to Columbia on Saturday will be planned. There will also be a presentation on ice climbing with slides. Everyone is welcome to attend.

### PHYSICS COLLOQUIUM

"Electrical Signals in Biological Tissues," Wendell S. Williams, University of Illinois, Urbana-Champaign, 4 p.m., 104 Physics. Free.

### PSYCHOLOGY CLUB

Psi Chi Psychology Club would like to invite everyone to hear guest speaker Brian Walner discuss the subject of "Your Ideal Relationship: Realistic or Unrealistic?" Brian will speak on September 29, at 6 p.m. in room 101 H-SS building. Psychology Club meeting will follow the discussion for those interested in our club.

### UMR FILM SERIES

"Missing," starring Jack Lemmon and Sissy Spacek, 7:30 p.m., Miles Auditorium, Mechanical Engineering Building. Season ticket or \$2.50 at the door.

### WARGAMER'S ASSOCIATION OF ROLLA

A discussion of the new fantasy role-playing game "Space Opera" will be held. The meeting is at 8 p.m., room 206 Math building. All interested parties may attend.

## FRIDAY

### PHYSICS COLLOQUIUM

"The Current Crisis in Science Education," Wendell S. Williams, 4 p.m., 104 Physics. Free.

## Missouri Miner

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

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**THE MISSOURI MINER**  
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University of Missouri-Rolla  
Rolla, MO 65401  
(314) 341-4312

### S.A.E.

The Society of Automotive Engineers will hold its annual membership picnic from 1-4:30 p.m. on Friday, September 30 at the Tech-Engine Club across the street from the EE building. Hamburgers, hotdogs, and refreshments will be served to members only. Memberships will be taken before and during the picnic.

## SATURDAY

### WARGAMER'S ASSOCIATION OF ROLLA

The Wargamer's Assoc. will be holding a "Car Wars" tournament this Saturday. It will be held in room 139 of the Ch E Bldg. Anyone who wants to participate needs to attend the meeting Thursday night or call Tom (364-0676).

### SIGMA GAMMA EPSILON

Sigma Gamma Epsilon, the Earth Science Honor Society, will be holding its next meeting Tuesday, Oct. 4 at 7 p.m. in Norwood 305.

### TAU BETA PI

Ray Reichenbach will be the speaker at Tuesday night's Tau Beta Pi meeting. Mr. Reichenbach is the automation manager at IBM's Lexington site.

The meeting will be held at 7:30 p.m. in Miles Auditorium (ME 104). It is open to all, and refreshments will be provided.

## SUNDAY

### ARMY ROTC

On Sunday, Oct. 2, 1983 there will be a field training exercise at Fr. Wood. We will be qualifying on the M-16 rifle. Cost is \$2.50. Open to all military science students. Sign-up at Bldg. T-2.

## TUESDAY

### RETIREMENT RECEPTION

Friends of Dr. and Mrs. Charles Hatfield are invited to attend a retirement reception in their honor from 3:30 to 5 p.m. Tuesday, Oct. 4, in the Miner Lounge, University Center-East, University of Missouri-Rolla.

Hatfield, professor emeritus of mathematics, recently retired after 19 years on the UMR faculty.

For details concerning the event, contact Dr. Selden Trimble, 341-4913.

## Day named director of Materials Research

Rolla, Mo. — Dr. Delbert Day, University of Missouri-Rolla Curators' Professor of ceramic engineering, has been appointed acting director of UMR's Graduate Center for Materials Research. The appointment is a half-time position and will enable Day to continue to teach and conduct research.

Day joined the UMR faculty in 1961 and was named a Curators' Professor in 1981. He received a B.S. degree in ceramic engineering from UMR-Rolla in 1958 and M.S. and Ph.D. degrees in ceramic technology from The Pennsylvania State University in 1960 and 1961, respectively.

## Personal development programs offered

BY PHYLLIS J. HARSTER

The Office of Personnel Services is offering a series this year called "Training and Development Programs." If you are interested in any of the topics, you can acquire more information by stopping by 106 Rolla Bldg. or by calling 341-4211. Some of the programs being offered are:

Oct. 3, 3:30-4:30, Ozark Room, "Causes of Test Anxiety"  
Oct. 12, 3:30-4:30, Ozark Room, "Test-Taking Strategies"

Oct. 26, 3:30-4:30, Ozark Room, "Increasing Academic Motivation"

Dec. 7, 3:30-4:30, Ozark Room, "Stress Management"

They are also giving two programs which require preregistration by stopping by 106 Rolla Bldg. They are "Relaxation Training" and "Test Anxiety Workshops." The former is held on three consecutive Mondays, Oct. 31, Nov. 7, and Nov. 14, from 3:30-4:30. The latter is held on Nov. 14, Nov. 21 and Nov. 28 from 2:30-3:30.

### TELLE ROTOCRAFT

Experimental rotor-blades (10' long, 7" chord, aluminum, flush rivets) for gyrocopters. Rotorblade info pack \$3.00 (overseas \$4.00). Offset Gimbals head plans \$8.00 (overseas \$10.00). Ferrous metals magna-fluxed.



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## WEDNESDAY

### ART EXHIBIT

Art exhibit, Jackie Wynn, Univ. Center-West Lounge, 8 a.m.-5 p.m.

### LIFE IN THE SPIRIT SEMINAR

Newman Center hosts a "Life in the Spirit" seminar on Wed. evenings continuing through Nov., 1983. The seminar focuses on the Charismatic Renewal in the Catholic Church. The meetings are held in St. Joe's Hall immediately behind the Newman Center, located at 10th and Park Streets, Rolla, Missouri, from 9:45 to 10 p.m.

### SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS

The Society of Hispanic Professional Engineers will have a general meeting at 6:30 p.m. in the Walnut Room, University Center-West. The details of this semester's recruitment plans and annual banquet will be discussed.

### U.S. AIR FORCE BAND

An Air Force country Rock band from Scott Air Force Base will perform in concert at 7 p.m. Wed., Oct. 5, in Centennial Hall, University Center-East, at UMR.

The concert is free and open to the public. It is being sponsored by the UMR-Rolla Air Force ROTC.

### WESLEY HOUSE

Wesley holds a general meeting every Wed. evening at 6 p.m. at the Wesley House, 403 W. 8th St. On Oct. 5, Dr. Charles Johnson will present a slide show on Scandinavia. Everyone is invited, and refreshments will be served.

## THURSDAY

### BROWN BAG LUNCHEON FILM PRESENTATION

The film "The Bushveld Igneous Complex" will be shown Thursday, Oct. 6, at 12:30 p.m. in Norwood 305. Everyone is invited to bring a lunch and enjoy this interesting film. Sponsored by Sigma Gamma Epsilon, the Earth Science Honor Society.

### PHI ETA SIGMA SMOKER

All freshmen with 3.5 GPA or better and 14 or more credits are invited to the Phi Eta Sigma honorary society smoker. It's at 7:30 p.m., Oct. 6 in room G3 Chemistry Bldg.

### PHYSICS COLLOQUIUM

"Supernovae: Observations and Models," David R. Branch, Univ. of Oklahoma, 4 p.m., 104 Physics. Free.

### UMR FILM SERIES

"Circle of Deceit," 7:30 p.m., Miles Auditorium, ME Bldg. Season ticket or \$2.50 at the door.

## NODAY

### KME MATH HELP SESSIONS

KME offers free tutoring in algebra, trig, calculus, and diff. eq. Help sessions are held every Monday and Thursday evening from 6:30-8 p.m. in MCS 202.



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## TUTORING

### ALPHA CHI SIGMA

Freshman and Analytical Chemistry  
7:00 - 9:00 p.m. Tuesday and Thursday  
Room 126 Chemistry Building

### Society of Physics

Physics 21-25 & 107  
7:30 - 9:00 p.m. each Tuesday  
Room 130 Physics Building

### KAPPA MU EPSILON

Trig, Algebra and Calculus  
Monday and Thursday 6:30 - 8:00  
Room 209 Math-Computer Science Building  
Minority & Women Eng. Program

Areas covered: Physics, Math, EE, ChE, E.M., Chemistry, English and Computer Science  
A complete schedule of times and dates is available in Room 302 Rolla Building.



## UMR hosting ACU conference

OPI

Rolla, Mo. — The staff of the University of Missouri-Rolla will host the annual conference of Region II of the Association of College Unions International (ACU-I) Sept. 29-Oct. 1. The theme of the Con-

ference is "The ACU-I Odyssey: Engineering Leadership Modes Through the College Union."

"We're very excited about hosting this year's conference," said Jess Zink, UMR director of Auxiliary Services. "Everyone at UMR has worked

hard to help make the conference a success and we're looking forward to it.

"The conference will give us an opportunity to introduce the participants, who will come from Missouri, Nebraska, Kansas and Oklahoma, to UMR and what it has to offer," he continued. "We're looking forward to getting to know the participants on both a personal and a professional level."

Registration for the conference will be from noon-2 p.m.

in the University Center-West lounge on Sept. 29. Conference sessions include: Elementary Program Engineering, Engineering Leadership Modes, Advanced Programming Technology, Dynamics of Intercampus Planning, of Management, Engineering Multi-Dimensional Growth and Engineering Union Formulas: Maximizing Results/Minimizing Efforts.

The public is invited to view the various company exhibits

in the Miner Lounge, University Center-East. There is no charge.

The keynote address will be delivered at the Thursday evening banquet by James H. Tangeman, president of Colby Community College, Colby, Kan. His topic will be "Odyssey — Real or Fantasy." UMR Chancellor Joseph M. Marchello will welcome the conference participants to UMR. In addition, Dale

McHenry president of the ACU-I, will present a "Learning Resource Network Workshop."

The fee for the conference is \$55 and includes the banquet, lunch and Ozark-style dinner in Friday and the closing luncheon on Saturday. For more information on the conference phone 341-4295.

The ACU-I is made up of 16 regions. Region II includes Missouri, Nebraska, Oklahoma and Kansas.

## UMR students must buy city stickers

BY PHYLLIS HARSTER

The City of Rolla Police Department says that all UMR students must have Rolla City Stickers on their cars. Even if your car is registered in another city, if you reside within the city limits of Rolla at any time, you must have a Rolla City Sticker on your car. You

can purchase the stickers at the Rolla City Hall, 901 Elm Street.

If you are ticketed for not having a sticker, you will have to pay a fine of \$10 plus court costs each time.

The stickers cost \$1.75 at City Hall until January 1. They will cost \$3.50 for the 1984 year.

## Geonetta appointed to journal

OPI

Rolla, Mo. — Dr. Sam Geonetta, Associate professor of speech and media studies at the University of Missouri-Rolla, has been appointed assistant editor of "The Technical Writing Teacher," a jour-

nal devoted to the teaching and study of technical communication.

As assistant editor, Geonetta will review articles submitted by scholars in the field of technical communication. He will be responsible for articles in the areas of oral technical communication, business and professional communication in the classroom and technology

of communication.

Geonetta has taught courses in technical communication at UMR since joining the faculty here in 1977. In addition, he has made a number of presentations and published several articles on the subject.

He is active in the Association of Teachers of Technical Communication, the Speech Communication Association,

the Central States Speech Association and the Council for Programs in Technical and Scientific Communication, for which he serves on the National Executive Committee.

He holds a B.A. degree from the University of Southern Colorado and M.A. and Ph.D. degrees from the University of Indiana.

## Munger assumes National Council Presidency

OPI

Rolla, Mo. — Dr. Paul Munger, professor of civil engineering at the University of Missouri-Rolla, was installed as president of the National Council of Engineering Examiners at the council's annual meeting in Albany, N.Y.

The council is the agency through which state and U.S. territory licensing and registration boards act together to

carry out responsibilities in regulating the practice of engineering and land surveying as it relates to the welfare of the public in safeguarding life, health and property.

According to Munger, the council also is responsible for preparing the Fundamentals of Engineering Exam and the Fundamentals of Land Surveying Exam, as well as keeping the country's 54 licensing jurisdictions up-to-date on the

progress of a model law to govern the practice of engineering and land surveying.

Munger, who also is the director of UM-Rolla's Institute of River Studies, is the chairman of the Missouri Board for Architects, Professional Engineers and Land Surveyors. He has been a member of that board since 1974 and is a registered professional engineer in Missouri, Arkansas and Illinois.



Nancy Winkler

There was a large turnout of students for Missouri Industry Day on Tuesday. Above, one of the more popular booths of the day.

## ELECTRICAL ENGINEERS MECHANICAL ENGINEERS CHEMICAL ENGINEERS PHYSICISTS

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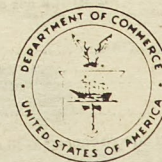
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# European curriculum differs from U.S.

from page 1

"The structure of chemical engineering education in England, Ireland and the United States is broadly similar," O'Donnell added.

In continental Europe, the structure tends to be different.

"In West Germany and Holland, engineering students take a five-to-seven-year course to earn the initial degree, a diploma that is roughly the equivalent of a master's degree. In these countries, however, the governments are proposing a shortening of the

system, since we already have a four-year bachelor of engineering degree course," O'Donnell said.

"If the proposed recommendations are followed in England, Holland and West Germany, it will result in fairly comprehensive changes for the teaching of all engineering disciplines, including chemical engineering," he said. "However, academia moves fairly cautiously, and it would be some time before these would be implemented."

collaboration between schools, universities and industry.

"As industry's needs change, the curricula must be changed to try to match these needs," O'Donnell said. "That kind of continuous inquiry was what led to the establishment of the Working Party."

He sees the response to changing technology as one of the major problems facing chemical engineering education today. These include such things as fitting biotechnology into the curriculum and the

use of computer-aided and computer-monitored instruction. He feels that response to change is the continuing responsibility of chemical engineering educators, a challenge they will continue to meet.

While at UMR, O'Donnell also spoke on "Equilibrium of the  $\text{NH}_3\text{-CO}_2\text{-H}_2\text{O-Urea}$  System," "Problems in the Start-up of a Large Ammonia Plant" and "Urea Reactor Design."

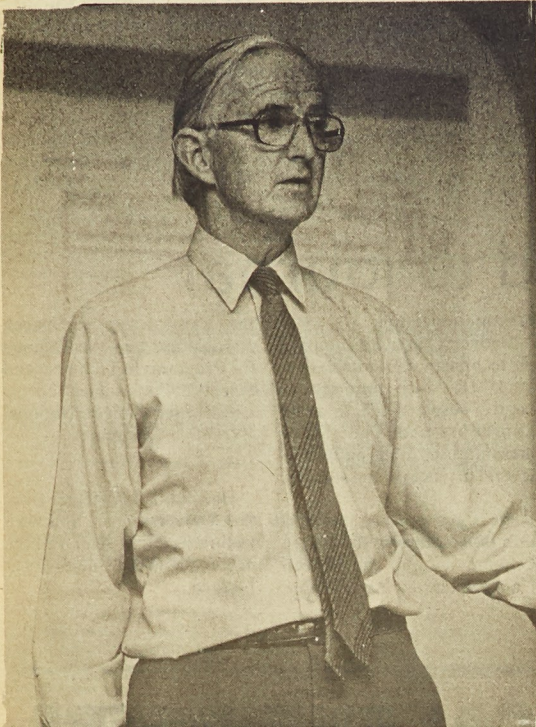
O'Donnell graduated from the University College Dublin in 1943 in mechanical and electrical engineering, and

received his master's degree in process engineering in 1948. He also has studied at the Massachusetts Institute of Technology; at Cambridge University, England; and at the Atomic Energy Research Establishment, Harwell, England.

From 1970 until 1981, he was chairman of Nitrogen Eireann Teo (NET), a state-owned fertilizer manufacturing company. He has been a member of the board of SynTex Ireland Ltd. since 1974 and was a member of the

board of the Institute for Industrial Research and Standards from 1963-1982. He is former chairman of the Irish Branch of the Institute of Chemical Engineers and of the Irish Branch, Society of Chemical Industry. He also has served as a council member for the Institution of Engineers of Ireland; the Institution of Chemical Engineers, London; and the Society of Chemical Industry, London.

O'Donnell is a member of the Education Committee and the Institution of Chemical Engineers, London.



courses to four years which would bring the course nearer to a bachelor's degree," he reported.

In England, there is ongoing debate over recommendations made by the Finiston Commission, a government-appointed commission on engineering education in general. Among recommendations was one to make the three-year program, which now earns a bachelor of science degree, an "enhanced" program in which graduates would earn the bachelor of engineering degree. Between 10-20 percent of the most able students would be channeled into an "extended" course, a four-year degree program in which students would earn a master of engineering degree.

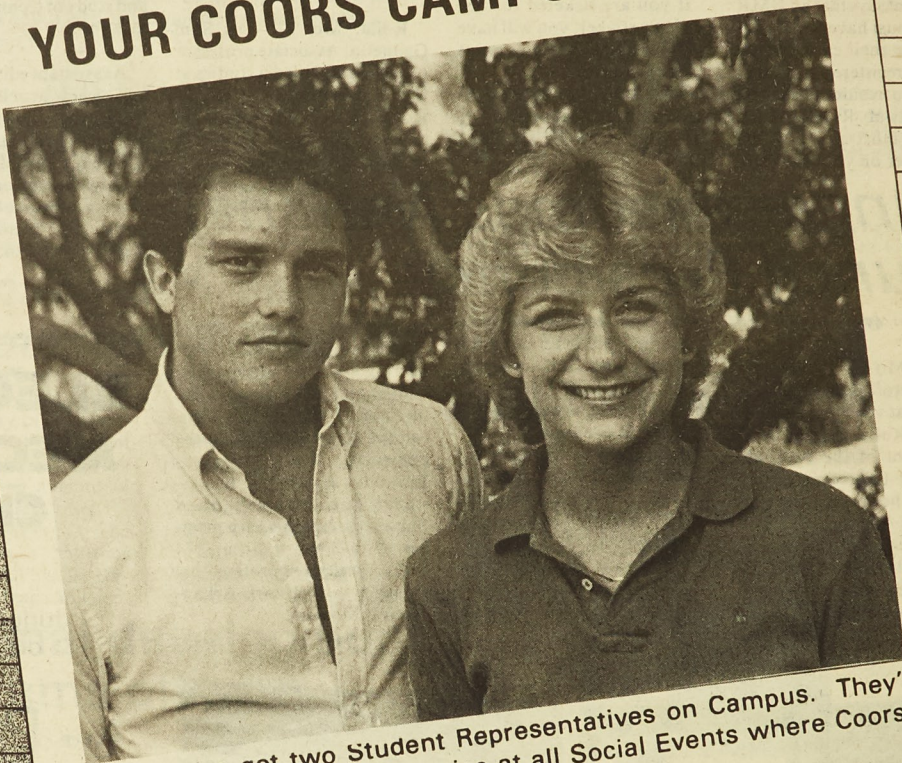
"Although Irish and British engineering institutions are closely linked, changes will have little effect on the Irish

O'Donnell pointed out that Switzerland initiated the four-year program in 1969 at the Federal Technical University in Zurich.

O'Donnell is a member of the Working Party on Chemical Engineering Education established by the European Federation of Chemical Engineering. This group is made up of representatives from national institutions of chemical engineers. Some of these institutions are the accrediting agencies for chemical engineering curricula in their countries.

Among topics set out for study by the Working Party are: development of undergraduate teaching to adjust to changing demands; participation of universities in new technological developments; development of continuing education in the light of changing demands; and educational

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# Friedman Essay Contest open

Buena Park, CA. . . Thesecond and annual Milton Friedman National student Essay Contest sponsored by the Americanism Educational League is now underway. It is open to college students studying the 'Free To Choose' film series. The subject is 'Free Trade or Fair Trade'. Cash prizes totaling \$15,000 plus \$1,000 for each of the top three students' instructors.

First place winner receives \$5,000, second place \$3,500,

third place \$2,500, fourth place \$1,500, fifth place \$1,000 and sixth through eighth place \$500 each.

The top three winners and their instructors will be brought to Los Angeles, all expenses paid, for the award banquet at the Los Angeles Marriott Hotel on Monday night, April 30, 1984.

Deadline for mailing the entries is March 10, 1984.

Entry forms have been sent to the economics/business in-

structors at the local college, which is one of over 350 colleges or universities at which the 'Free to Choose' films have been part of the curriculum.

A blue ribbon panel of judges will score the entries and Dr. Friedman will rank-order the top eight and personally present the awards to the first three winners.

A senior research fellow of

the Hoover Institution at Stanford University, Dr. Friedman is a world-renowned economist and was awarded the Nobel Memorial Prize in Economic Science in 1976.

Spring 1983 winners were (1) Deborah Garrett--\$5,000, Harding University; (2) Kelly Smidt--\$3,500, Millikin University; (3) Lynn Du Bose--\$2,500, College of the South-west; (4) David Price--\$1,000 College of William and Mary;

(5) Dwight Jackson, Jr.--\$1,000 West Texas State University. The following received \$500 each--Katherine Trull, Georgia College; Ken Wickliffe, Ball State University; David Waage, California Lutheran College; Bradley Conway, Southern Oregon State College; Nelda Middleswarth, University of Wyoming; and Marcia Musgrave, Ithaca College.

The Americanism Educa-

tional League is a non-profit Foundation established in 1927 to enhance public education about constitutional Free Enterprise system. Among its various projects, it lends the series of Friedman films, 'Free To Choose', without charge, to colleges and universities for classroom study.

## Lists

from page 5

4. EE 511—Electrocution Theory: Not recommended to anyone with future plans of any sort.

5 Ways to get your professor's attention:

1. Scream at the top of your lungs.
2. Froth at the mouth.
3. Throw small appliances.

4. Set his or her pants on fire.

5. Toss a few grenades.

4 Things that Rolla "Really Needs" more of:

1. Video arcades
2. Fast-food joints
3. Tiny little parks
4. Car dealers.

## Lectures

from page 5

tries—it stays in the hands of corrupt government officials. We would make a lot of friends this way and isolate the Soviet Union, he believes. They would no longer have a reason to attack us.

What many of the audience wanted to know was, "What can we as college students do about all this? We have no voice." Mr. James says that the government has made it hard for us to get financial aids to go to school and then has made it hard to find once we're out of school. But they have made it easy for us to join the military to get a job. They are militarizing us.

What we need to do is get good grades, good jobs, and begin to peacefully demonstrate. He believes they will eventually

listen to us if we do it peacefully. The students of the '60s went about it the wrong way, but they did bring a halt to the war in Vietnam. And we can do the same—but peacefully. He especially believes we need less "professional" politicians. We need more people with our technical backgrounds in Washington, who can understand the technological background of the military bills Congress tries to boondoggle us with. At present only about five percent of our politicians in Congress have technical backgrounds, while our counterparts in the Politburo have about 50 percent with technical backgrounds. We just haven't been organized before to get the politician's attention.

## HOMECOMING 83 TENTATIVE SCHEDULE

Oct. 5, 7-9 p.m., Queen's Tea at Sigma Nu.

Oct. 9, 9 a.m.-4 p.m., Queen Candidates Interviews at Univ. Center East.

Oct. 18-20, 9:30 a.m.-3 p.m., Campus vote for Homecoming Queen at Lobby Univ. Center-West.

Oct. 21, 9 p.m.-1 a.m., Homecoming Dance at Cent. Hall.

Oct. 22, \*Half-time, Announce 1st, 2nd, and 3rd Runners-up, Coronation of Queen at Jackling Field.

Oct. 22, 8 p.m., Concert at M-P Gym.

\*Half-time ceremonies coordinated with and directed by Dr. Oakley.



BEST PIZZA  
IN TOWN

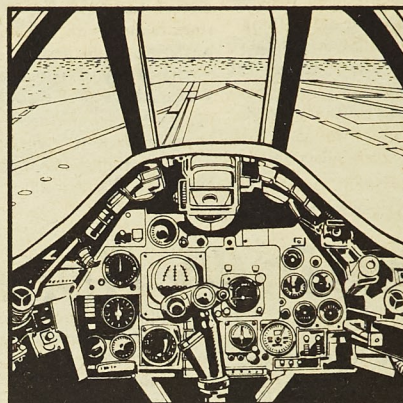
featuring  
beer garden in rear for outdoor  
dining pleasure

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is available

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Rolla, MO.

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Some desk jobs are more exciting than others.

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Your path to leadership starts with officer training that's among the most demanding in the military. It's intensive leadership and professional schooling combined with rigorous Navy flight training. And it's all geared to prepare you and other college

graduates for the unique challenge of Navy aviation. The program is tough but rewarding.

One important reward for Navy officers is decision-

making authority. In the air, and on the ground, you have management responsibility from the beginning. And your responsibility grows as you gain experience.

No company can give you this kind of leadership responsibility this fast. And nothing beats the sheer excitement of Navy flying.

The salary is exciting, too. Right away, you'll earn about \$18,300 a year. That's better than the average corporation will pay you just out of college. And with regular Navy promotions and other pay increases, your annual salary will soar to \$31,100 after four years. That's on top of a full package of benefits and privileges.

Before you settle down to an earth-bound desk job, reach for the sky. Reach for the coupon. Find out what it takes to be part of the Naval Aviation Team. You could have a desk that flies at twice the speed of sound.

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☐ Please send me more information about becoming a member of the Naval Aviation Team. (QA)

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Address \_\_\_\_\_ Apt. # \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

†College/University \_\_\_\_\_

Age \_\_\_\_\_ ‡Year in College \_\_\_\_\_ ♦GPA \_\_\_\_\_

▲Major/Minor \_\_\_\_\_

Phone Number \_\_\_\_\_ (Area Code) \_\_\_\_\_ Best Time to Call \_\_\_\_\_

This is for general recruitment information. You do not have to furnish any of the information requested. Of course, the more we know, the more we can help to determine the kinds of Navy positions for which you qualify.

## Navy Officers Get Responsibility Fast.



# Students share pastimes

BY JOHN ROBERTS

By now the new freshmen know, like the rest of us, how exciting it is to live here in Rolla. I say new freshmen because there are some students who have been here as many as four years and are still in Math 8. Anyway, college life here in Rolla isn't exactly what many students expect, but this is only natural. After all, aren't college towns supposed to have bars and dances for every night of the week? And what about sports? Isn't there supposed to be an exciting sports atmosphere with an enveloping competitive spirit shared by the whole town, you know, where everyone waits with anticipation for the next big game? Personally, I like watching the Miners as much as anyone, but the people as a whole here don't have the enthusiasm you would find at most college towns.

Now don't get me wrong, UMR is the best place to be for an education, but the social life is another story. It's always

interesting to find out what students do here in their spare time so once again I talked to some about it.

Following is part of a conversation I had with a group of students concerning their extracurricular activities. Their names have been omitted to avoid any embarrassment, and "student 1," "student 2," etc. have been substituted in.

J.R.: Student 1, what is your favorite pastime?

Student 1: My favorite pastime is to drink a whole case of BLATZ beer in less than an hour and then throw up out my window. You see, I live in the new wing at TJ pretty high up so I can watch it fall a long way. The only trouble is sometimes I pass out before...

J.R.: That sounds very... uh... exciting. Student 2, what about you?

Student 2: I don't do any of that gross stuff, man. I'm into yoga. You would be amazed at what it can do for your outlook on life, man. With just a few easy

positions you can clear your mind of all your troubles, man, watch this.

J.R.: That's OK. It's not really necessary to stand on your head.

Student 2: Come on, man, try it.

J.R.: No, I don't... Let go of my leg!

Student 2: OK, OK, just tryin' to help, man.

J.R.: I'm fine, OK?... man? Student 2: Right on.

J.R.: Let's see, Student 3, what are your pastimes?

Student 3 (brushing her hair): Well, like I like to listen to good music, ya know, like the tubes and stuff. I mean, wow like, and Rick Springfield is IT fur shur.

J.R.: Would you mind clapping your nails in the other direction please?

Student 3: Oh wow, like sorry.

J.R.: Fur shur... Student 4, how about you?

Student 4: Well, my homework is my favorite pastime.

J.R.: Oh, right. I bet you're a real mover too, huh?

Student 4: No, actually, I never

lift anything heavier than two sevenths of my body weight, it can be very hazardous to one's skeletal and muscular systems. You see the normal human's body is...

J.R.: Thanks, Student 4. That's

Student 4: I'm not through.

J.R.: You can finish in a minute.

Student 4: I want to finish now. I was saying...

Student 1: We don't want to hear it, so shut up, you nerd.

Student 2: Right on, you're invading my space, man.

Student 3 (polishing her nails): Like true and your breath is awesome, too.

Student 4 (stomping away): That's it, I'm leaving!

J.R.: He'll be back.

Student 1 (opening a BLATZ): How do you know?

J.R.: He forgot his calculator.

Student 1 (throwing calculator then belching): I'll save him a trip. Hey Wimp! Here!

Student 4 (screaming as calculator shatters on side-

walk): No! No!

Student 2: Hey man, I hope he's not mad.

Student 3: OMAGOD! Like look at his eyes!

Student 1: He's coming back. Is that a knife?

J.R.: I think we should probably finish this interview some other t... (ZZZZING!!)

Our little rap session came to a sudden halt when the knife that Student 4 threw stuck in the tree between Student 1's and Student 2's heads. I plan to get the group back together sometime to finish our talk. Student 4, however, quit school, but maybe we can get someone else to take his place.

Groundwaves...

## KMNR features the Dead

Music, either to dance to or to listen to, is (most may agree) one of the essential parts to a well-rounded party. Keeping these two points in mind, the radio station KMNR is prepared to make equipment, music, and disc jockeys available for those party organizers who want them. For information about the type of equipment, music, and compensation you may contact Marshall Rice at the

radio station (341-4272). Please make the arrangement with the radio station about one week before the scheduled event. If Marshall Rice is not available when you call, leave a message and he will contact you.

On October 3, from 7:00 to 9:00 p.m., the Monday Night Artist Feature will be presented by Andy Tatkov. The artist featured will be the

Grateful Dead who have apparently created mixed emotions in the student body as well as in the radio station staff. On one hand, some folks have said that the music of the Grateful Dead is over-played at the radio station. On the other hand, some folks, even after traveling thousands of miles to see a concert by the Dead, can't absorb enough of the Dead's recorded music. If you've been an avid listener,

you might agree that time has seemed to manage the musical direction of the station in that the Grateful Dead is no longer over-played and perhaps is even under-played. In any case, we hope that we'll be tuned with you at 89.7FM.

## Save the reds!

Life just hasn't been the same for the last seven years. Everything has taken a turn for the worse. I, personally, can no longer sleep at night without having horrible nightmares about dark brown M&M's rolling over and crushing my car as I make the Sunday drive back to Rolla. Right around seven o'clock every night, my stomach attacks my body in an attempt to once again digest that ever-essential part of human life - the red M&M.

Just look what's happened to the nation's economy since the red M&M's became extinct in 1976. Unemployment has skyrocketed and so has inflation. To bring back the red M&M is to combat these awful unpleasanties. Do what any red-blooded American would do... join in the fight to bring back the illustrious red M&M! All letters to this effect and contributions will be accepted! Send them to: Red M&M Crusade, Rm. 758 T. J. Hall (Any cor-

responding mail will be forwarded to M&M/Mars Co. but PLEASE use your real name). Do your duty as an

American citizen and show how much the red M&M means to you!

## St. Pat's facts

It's here—Green for St. Pat's '84. Campus sales begin Monday Oct. 3 at the Hockey Puck. This year's line features a large number of new items: sweatpants (\$10.00), youth T-shirts (\$5.00), bar glasses (\$2.00), can wrappers (\$2.50), and Engineer's caps (\$3.75), as well as sweatshirts (\$9.00), Hi-ball glasses (\$2.50), base-

ball caps (\$3.50). So everyone get psyched to buy the best green ever.

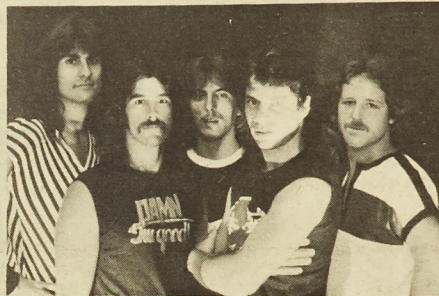
This week also features the first benefit movie of the year—the rowdy, wild "Por-ky's" on Thursday, Oct. 6 at 7 and 9:30 p.m. Tickets are only \$1.00, making it the best, most psyched, entertainment around... 168 Days

**Nobuko's HAIR BOUTIQ**  
for GUYS and GIRLS  
341-3800  
OPEN MON.-SAT. 9-5  
1720 N. BISHOP  
ACROSS FROM THE  
THOMAS JEFFERSON RESIDENCE HALL

## The Beat

PRESENTS

### Sweet Revenge



Fri.9/30 & Sat.10/1 No Cover Charge

Ricky and the Richardos

Fri.10/6 & Sat.10/7 No Cover Charge

Hours: 6:00pm to 1:30pm

Pitchers \$2.40 14 oz. draw 75¢

Location-505 B. Hwy 72, beside Aldi's  
For more information call 364-5065

Get in on 'Fantastic Football'!

Major League players can be on your team!

## Johnny's Smoke Stak

Hwy. 72 & Rolla Street  
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Ribs  
Chicken  
Shrimp  
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Sandwiches  
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## Try Our Suday Buffet

Ribs—Chicken—Ham  
Sausage—Burnt Ends  
Bar-B-Que Beans—Hot Rolls  
Ranch Fries—Corn On The Cob

Salad Bar  
all you can eat — \$5.95  
Open 11:00 am.



# ★ Classifieds ★ ★ Classifieds

## To the hatless Board Rep...

I had been looking for a Coors hat just like yours. Then when I stumbled upon you and your hat at Traigle's Street Dance that Friday night, I couldn't resist the temptation. You put up a good chase, and I must tip my hat to you.

Thanks,  
The Mat Hatter

Lost: Gold high school ring. If found, please call Jim at 364-2673. Reward.

## To the cookie thief in Farrar Hall:

You're a real CRUMB! Kroger is open 24 hours... BUY YOUR OWN!  
Grandma

**Reward:** For the return of an HP-34C lost at the Placement Office. If found, call 364-8685.

**Electric Bass Player** needed real bad!! The Rythm Section of the UMR Jazz Band is pleading with you! Come help us please! Call the Music Office (341-4185) and say, "I WANT TO HELP. I WANT TO PLAY IN THE UMR JAZZ BAND!!!"

**Will Rogers** once said, "I never met a man I didn't like, but then again I never met a graduate of Elmhurst College."

**For Sale:** '76 OPEL, runs great, new radials and Keystone wheels, Interior good, some rust. Must sell, \$700. Dennis, 364-5226.

## Dear Scruffy:

Coming together is a beginning;  
Keeping together is progress;  
Working together is success;  
Let's hear it for success!

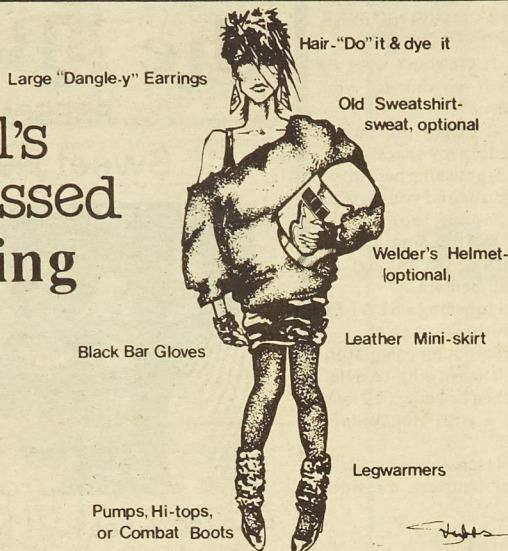
Signed, L. Puppy

## The Challenge:

We, the men of THE Annex, challenge the women of THE Frat to a game of skill, endurance, and intelligence. Obviously, since you lack all three, please fulfill our bet early by bringing our favorite refreshment to the football game on Friday afternoon, Oct. 7.

We don't hate you, we pity you.  
The men of THE Annex

## This Fall's Well-Dressed Engineering Major



**TACO HUT** invites all  
students of UMR to enjoy our  
fine Mexican food!

*Dine in or Carry Out.*

Present your student I.D.

1 meal per I.D.

and receive a **15% Discount** on all items.

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## What can AIR FORCE Offer a Woman? A LOT

Women start out on the same footing as men in the Air Force ROTC. Women wear the same insignia and hold the same cadet positions in AFROTC, just as they later on as Air Force officers.



**AIR FORCE**

**ROTC**

Gateway to a great way of life.

**SCHOLARSHIPS** The same Air Force ROTC scholarship can be yours as a woman. If you qualify, you can have your tuition, book costs and lab fees paid by the Air Force, and receive \$100 a month for other expenses. It helps free you to concentrate on your education. And that's important.

**OPPORTUNITIES** As an Air Force officer, you'll be expected to use your training and education, and be a leader, managing people and complex systems. You'll be handed executive responsibility starting with your first assignment.

It's a great way to be equal, and a great way to serve your country. Check into the Air Force ROTC program, the scholarships and the opportunities. You may be helping yourself earn an exciting new lifestyle.

**Air Force ROTC**

University of Missouri-Rolla

Bldg T-7 (across from St. Patrick's school)

**341-4925 or 4932**



Is it a mistake?

# Lebanon

BY LARRY BECK

There's a big joke being played on us, and I think that you should know about it. You turn on the TV news and what's the lead story every night? Lebanon. "The war in Lebanon." "Two Marines killed in Lebanon." "Cease-fire breaks down in Lebanon."

Look at a map of the Middle East. Sure enough, right there on the Mediterranean, between Syria and Israel, is a little strip of land labeled "Lebanon." That's where the war is, you think.

You're wrong; it's all part of the joke. There is no Lebanon. Honestly, there's no such place. There hasn't been for years. In 1975 Lebanon ceased to exist.

What happened to it? It's been subdivided. Some was annexed by Syria. Some was annexed by Israel. Some went to the Palestine Liberation Organization. Most of it stayed in the same hands. The long-standing owners of what had once been Lebanon simply changed the way they considered their locations. No longer parts of Lebanon, these

locations became little nations unto themselves: "Druse strongholds," "Sunni villages," "Phalangist enclaves," "Amal controlled areas."

And all of these little nations are busy fighting each other. For the time being, the Druse, the Sunnis, the Syrians, the PLO, and other Moslem groups are together fighting the Phalangists, the Amal, and the other Christian groups. Just as often, though, the Moslems and the Christians are fighting among themselves.

Now, this is a pretty good joke all by itself: claiming that a little piece of land being fought over by more than forty separate armies and militias is a single nation. But wait, I've saved the best part for last. There's a government of Lebanon! Do you know what the government of Lebanon does? You're going to love this. The government of Lebanon controls part, not all, of one bombed-out city in the entire mythical country of Lebanon. Is that funny, or what?

I let you in on all of this for a reason. I don't know why,

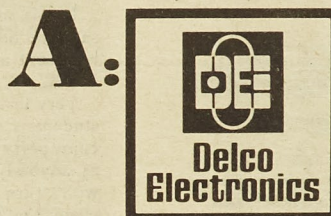
but somebody's playing this joke on us just to make us look stupid. They've got our nation's leaders, guys like President Reagan, Senate Majority Leader Baker, and House Speaker O'Neill, playing straight men. These poor men are running around saying that the U.S. Navy and the Marines have to help the imitation Lebanese government "regain" control of the nonexistent nation of Lebanon. I just think that it's embarrassing to have somebody making our country's leaders look so foolish.

Besides, these men are so taken in that they want our armed forces to stay over there in the midst of all of this fighting for eighteen more months, now that's not funny. Four Marines have already been killed, and a bunch have been wounded.

I like a good joke as much as the next person, but you can push one too far. People are getting hurt. I say that it's time to call the whole thing off.



**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.

If you would like to gain experience in the design and learn about the manufacture of...

- Microprocessors and Single Chip Microcomputers
- Linear Compatible I<sup>2</sup>L ICs
- Linear and Digital Bipolar ICs
- EPROMs, E<sup>2</sup>PROMs

We would like to talk to you.

**Sign up to be interviewed by the General Motors recruiting team.**

We'll tell you a lot more about us and our home town. We offer a low cost of living, a good lifestyle, a low crime rate, good schools, low tax rates and stability and growth opportunities to match.

**We will be on campus October 13.**

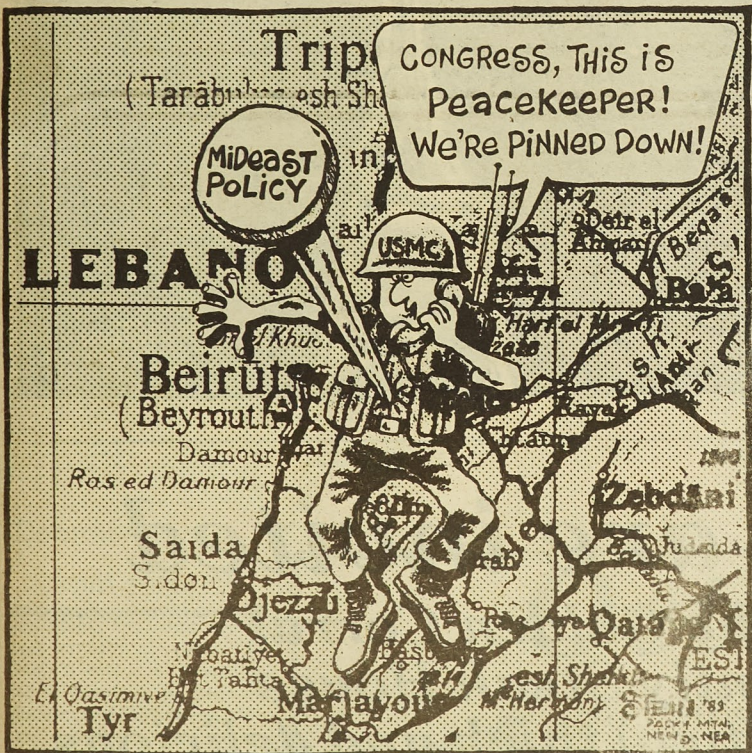
If you are not available for an interview, send your resumé to:

Dick Davis  
Delco Electronics  
Division General Motors  
700 East Firmin Street  
Kokomo, Indiana 46901



**Delco Electronics**

An Equal Opportunity Employer



## RollaMo Comments

Dearest Administration,  
I found in the Rollamo that there are many organizations on this campus that are discriminatory to white people. Why are these organizations allowed to flourish when all-white organizations are prohibited by law? Integration of the races starts with interaction of the races. May I suggest you discontinue allowing these organizations to exist under discriminatory

names that include nationality in conjunction with America. Are they not proud to be Americans?

Standing by the Stars and Stripes,

T. Parlor

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We give the look you want

We teach you how to style & groom your hair in between visits so you always look great, try us and you be the judge.

**Forum II Hairstyling**

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# Placement Office Permanent

SPECIAL NOTICE

Campus interviewing for week of October 17-21, 1983

**ARKANSAS BEST CORPORATION, Ft. Smith, AR**  
Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/Computer Science for Systems Analyst/Programmer. Candidate should be in upper third of class.  
U.S. CITIZENSHIP REQUIRED BY COMPANY. GRADS PREVIOUS TO DEC. 83, SIGN ON BACK-UP LIST.  
Location: Ft. Smith, AR  
Interviewer: Richard Crew  
Interview dates: October 17, 18, 1983  
Number of schedules: 1 ea day  
Priority sign-up: September 30, 1983  
Regular sign-up: October 3, 1983

**AIR CONDITIONING GROUP; BORG WARNER CORPORATION, Maryland Heights, MO**  
Will interview DECEMBER 1983 GRADS ONLY with BS/Mechanical Engineering or BS/MS/Engineering Management with ME OPTION ONLY for Systems Sales. Engineered Sales: Engineered Machinery Air Conditioning. Details will be posted with signups. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST. MUST HAVE THERMODYNAMICS; MUST BE WILLING TO RELOCATE TO MAJOR U.S. CITY; PREFER 2.95 OR ABOVE; PREFER DEMONSTRATED LEADERSHIP SKILLS. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: nationwide  
Interviewer: Jack Detzold and another  
Interview date: October 17, 1983  
Number of schedules: 2  
Priority sign-up: September 30, 1983  
Regular sign-up: October 3, 1983

**FIDELITY UNION LIFE, Rolla, MO**  
Will interview ALL GRADS, ALL MAJORS for career in Financial Planning.  
Location: all states except NY.  
Interviewer: unknown  
Interview date: October 17, 1983  
Number of schedules: 1  
Priority sign-up: September 30, 1983  
Regular sign-up: October 3, 1983

**BLACK & VEATCH ENGINEERS-ARCHITECTS, Kansas City, MO**  
Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/MS/EE, ChE, ME, Civil Engineering for Design Engineers-Architects in Power Division, Civil Environmental Industrial/Special Projects, Management Services, International Divisions. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Kansas City, MO or Overland Park, KS  
Interviewers: unknown  
GRADS PREVIOUS TO DEC. 1983 MUST SIGN ON BACK-UP LIST.  
Interview date: October 18, 1983  
Number of schedules: 1  
1 - EE, ChE  
1 - ME  
1 - CE  
Priority sign-up: October 3, 1983  
Regular sign-up: October 4, 1983

**DATA GENERAL CORPORATION, Westboro, MA**  
Will interview DECEMBER 1983 GRADS with BS/MS/Computer Science, Electrical, Mechanical Engineering for Hardware/Software R&D. Positions available in Microprocessor base terminals & graphics hardware & software. U.S. CITIZENSHIP OR PERMANENT VISA ONLY. GRADS PREVIOUS TO DEC. 1983, SIGN ON BACK-UP LIST.  
Location: Austin, TX  
Interviewer: unknown  
Interview date: October 18, 1983  
Number of schedules: 1  
Priority sign-up: October 3, 1983  
Regular sign-up: October 4, 1983

**EASTMAN KODAK COMPANY, Rochester, NY**  
Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/Electrical, Mechanical Engineering, Computer Science for Research, Design & Development, Software Engineering, Service/Field Engineering. Details will be posted with signups.  
PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO DEC. 1983, SIGN ON BACK-UP LIST.  
Location: Rochester, NY  
Interviewer: unknown  
Interview date: October 18, 1983  
Number of schedules: 1  
Priority sign-up: October 3, 1983  
Regular sign-up: October 4, 1983

**ILLINOIS DEPARTMENT OF TRANSPORTATION, Springfield, IL**  
Will interview DECEMBER 1983 GRADS ONLY with BS/Civil Engineering for Structural Design, Highway Construction, Highway Design & Planning, and Hydraulics & Hydrology. Details will be posted with signups. MUST HAVE PERMANENT RESIDENCY.  
Location: Division of Highways (Statewide); Division of Water Resources (Springfield)  
Interviewer: unknown  
Interview date: October 18, 1983  
Number of schedules: 1  
GRADS PREVIOUS TO DECEMBER 1983, SIGN ON BACK-UP LIST.  
Priority sign-up: October 3, 1983  
Regular sign-up: October 4, 1983

**NASA-Johnson Space Center, Houston, TX**  
Will interview MAY 1984, JULY 1984 GRADS ONLY with BS/MS/Aerospace, Electrical, Mechanical Engineering, Computer Science for positions entitled Aerospace Technologist (AST). Available areas will be listed with signups. U.S. CITIZENSHIP IS REQUIRED FOR EMPLOYMENT. GRADS PREVIOUS TO MAY 1984 MUST SIGN ON BACK-UP LIST.  
Location: Houston, TX; Interviewer: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 1 ea day  
Priority sign-up: October 3, 1983  
Regular sign-up: October 4, 1983

**KIEWIT MINING ENGINEERING, Omaha, NE**  
Will interview MAY, JULY 1984 GRADS ONLY with BS/Mining, Civil, Mechanical, Metallurgical Engineering for entry level engineering positions related to development and operations of new and existing open pit mines; mechanical engineering positions involved in maintenance operations. GRADS PREVIOUS TO MAY 1984 MUST SIGN ON BACK-UP LIST. PERMANENT LEGAL RESIDENTS WILL BE ACCEPTED.  
Location: Wyoming/Montana  
Interviewer: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 1 ea day  
Priority sign-up: October 3, 1983  
Regular sign-up: October 4, 1983

## A Career For You . . . ILLINOIS POWER COMPANY

ON CAMPUS INTERVIEWS

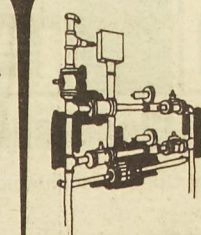
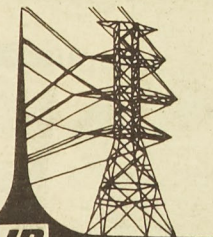
OCTOBER 4, 1983

For the following degrees:

ELECTRICAL ENGINEERING  
MECHANICAL ENGINEERING

ILLINOIS POWER COMPANY

An Equal Opportunity Employer - Male/Female



## RollaMo Comments

I have just picked up my copy of the 1983 Rollamo, and I have to say that as a UMR student I'm embarrassed.

In his message the editor says the book is intended to represent a student's stay at UMR.

Very little of my time as a student is spent partying. I enjoy party weekends as much as anybody, and I certainly won't turn down a cold one when I'm thirsty. But this yearbook devotes a full page of pictures to almost every party held this past year, and there are too many of them where only the face is different and the same hand is holding up the same can of beer. The yearbook virtually ignores the fact that this is an engineering school, located in a uniquely beautiful part of the country.

My time, and that of most other students, is spent mostly in class, in the library, in various special interest groups

see page 11

### SIGN-UP INFORMATION FOR McDONNELL DOUGLAS PERMANENT INTERVIEWS

WHEN: MONDAY, OCTOBER 3, 1983: Priority signups  
TUESDAY, OCTOBER 4, 1983: Regular signups

WHERE: LOBBY AREA OF UNIVERSITY CENTER WEST

TIMES: FOR MORNING SIGN-UPS -- 8:30 a.m. - 11:00 a.m.  
FOR AFTERNOON SIGN-UPS -- 1:00-3:30 p.m.

INTERVIEWING: see page 4 for complete details

INTERVIEW DATES: October 18, 19, 1983

see page 11

Do you want to make  
**money!**  
The  
**UMR Miner News Paper**  
wants **You!**

Call Karen Penney about an  
Advertising Layout Position.  
**364-3561** after 8 p.m.

A LONG TIME FROM NOW  
IN AN eCONOMY FaR, FaR aWay...

## REAGANOMICS RETURN OF THE JOBS



Stein '83  
ROCKY MOUNTAIN  
NEWS-NEA

**You are invited**  
to the **Golden Corral**  
**Family Steak House**  
to enjoy 2(two) thick and delicious  
**Chicken Fried Steak dinners for the**  
**very special price of \$5.99**

Each dinner includes our large Idaho baked potato  
or fresh-eat french fries and Texas toast.

offer expires October 31, 1983



1049 Kings Hwy  
Rolla, MO  
341-3909



McDONNELL DOUGLAS CORPORATION

Will interview for the fall...  
will be October 3, 1983; re...  
McDONNELL AIRCRAFT COMPANY  
Will interview DECEMBER 1983  
Mechanical Engineering, Design  
Engineering design, research, de...  
software development for all...  
MUST BE U.S. CITIZEN. GRADS  
ONLY.  
Location: St. Louis  
Interview dates: October 1...  
Number of schedules: 1 ea

McDONNELL DOUGLAS AUTOMOTIVE  
Will interview MAY 1984  
design & analysis, consulting  
sing programming, training  
Business Applic. Prog.,  
MUST BE U.S. CITIZEN. GRADS  
MUST SIGN ON BACK-UP LIST.  
Location: St. Louis  
Interview dates: October 1...  
Number of schedules: 1 ea

McDONNELL AIRCRAFT COMPANY

Will interview DECEMBER 1983  
design & analysis, consulting  
sing programming, training  
Business Applic. Prog.,  
MUST BE U.S. CITIZEN. GRADS  
MUST SIGN ON BACK-UP LIST.  
Location: St. Louis  
Interview dates: October 1...  
Number of schedules: 2 ea

McDONNELL DOUGLAS ELECTRONICS  
Will interview DECEMBER 1983  
Computer Science - manufact...  
aerospace industry. MUST  
SIGN ON BACK-UP LIST ONLY.  
Location: St. Charles, MO  
Interview dates: October 1...  
Number of schedules: 1

ROCK ISLAND ASSEMBLY, Rock...  
Will interview DECEMBER 1983  
Mechanical, Chemical Engi...  
U.S. CITIZENSHIP REQUIRED  
ONLY.  
Location: Rock Island, IL  
Interviewer: Mr. Siegrist  
Interview date: October  
Number of schedules: 1 ea

SHELL OIL COMPANY, Houston...  
Will interview DECEMBER 1983  
Electrical, Geological, Job...  
signs MS/Physics. Job...  
TO DECEMBER 1983 MUST SIGN  
ON BACK-UP LIST.  
Location: various  
Interview dates: October  
Number of schedules: 1 ea

DOW CHEMICAL USA, Freeport...  
Will interview DECEMBER 1983  
Engineering, BS/MS/PhD O...  
will be posted with signups  
SIGN ON BACK-UP LIST. U...  
Location: Freeport, TX  
Interview dates: October  
Number of schedules: 2

UNION PACIFIC SYSTEMS (P)...  
Will interview DECEMBER 1983  
Engineering Management for...  
ARE TO SIGN ON BACK-UP L...  
Location: Omaha and thre...  
Interviewer: unknown  
Interview dates: October  
Number of schedules: 1-1...  
1-1...  
1-1...

Comment  
from p...

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available.  
I think the y...  
poorly planned.  
Sincerely,



## Permanent

from page 10

## McDONNELL DOUGLAS CORPORATION, McDonnell Douglas Company, St. Louis, MO

Will interview for the following divisions: Priority signups for all divisions will be October 3, 1983; regular signups will be October 4, 1983 (see page 3)

**McDONNELL AIRCRAFT COMPANY/McDONNELL DOUGLAS AERONAUTICS**  
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS ONLY with BS/MS/Aerospace, Mechanical Engineering, Engineering Management, Engineering Mechanics for engineering design, research, development, analysis, testing, computer aided design & software development for aircraft, missiles, electronic & spacecraft systems. MUST BE U.S. CITIZEN. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: St. Louis  
Interviewers: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 1 ea day

**McDONNELL DOUGLAS AUTOMATION COMPANY**  
Will interview MAY 1984 GRADS ONLY with BS/MS/Computer Science for systems design & analysis, consulting, user support, application processing, teleprocessing programming, training, data conversion and implementation; types of work: Business Applic. Prog., Scientific Applic. Prog., Systems Planning, CAD/CAM - Robotics. MUST BE U.S. CITIZEN OR PERMANENT RESIDENT. GRADS PREVIOUS TO MAY 1984 MUST SIGN ON BACK-UP LIST ONLY.  
Location: St. Louis  
Interviewers: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 1 ea day

**McDONNELL DOUGLAS ELECTRONICS COMPANY**  
Will interview DECEMBER 1983 GRADS ONLY with BS/MS/PhD in Electrical Engineering Computer Science - manufacturer of electronic & electromechanical devices for the aerospace industry. MUST BE U.S. CITIZEN. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: St. Louis  
Interviewers: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 2 ea day

**McDONNELL DOUGLAS ELECTRONICS COMPANY**  
Will interview DECEMBER 1983 GRADS ONLY with BS/MS/PhD in Electrical Engineering Computer Science - manufacturer of electronic & electromechanical devices for the aerospace industry. MUST BE U.S. CITIZEN. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: St. Louis  
Interviewers: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 1

## DOUGLAS AIRCRAFT COMPANY, Long Beach, CA -- INTERVIEWS HAVE BEEN CANCELLED

**McDONNELL AIRCRAFT COMPANY/McDONNELL DOUGLAS AERONAUTICS**  
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS ONLY with BS/MS/Electrical Engineering for engineering design, research, development, analysis, testing, computer aided design & software development for aircraft, missiles, electronic and spacecraft systems. MUST BE U.S. CITIZEN. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: St. Louis  
Interviewers: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 2 ea day

**McDONNELL DOUGLAS ELECTRONICS COMPANY**  
Will interview DECEMBER 1983 GRADS ONLY with BS/MS/PhD in Electrical Engineering Computer Science - manufacturer of electronic & electromechanical devices for the aerospace industry. MUST BE U.S. CITIZEN. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: St. Louis  
Interviewers: unknown  
Interview dates: October 18, 1983  
Number of schedules: 1

## ROCK ISLAND ARSENAL, Rock Island, IL

Will interview DECEMBER 1983 grads with BS/Engineering Management, Electrical, Mechanical, Chemical Engineering for engineering positions (civil service). U.S. CITIZENSHIP REQUIRED. GRADS PREVIOUS TO DECEMBER 1983, SIGN ON BACK-UP LIST ONLY.  
Location: Rock Island, IL  
Interviewer: Mr. Siegfried or Mr. Stovall  
Interview dates: October 18, 19, 1983  
Number of schedules: 1 each day  
Priority signup: October 3, 1983  
Regular signup: October 4, 1983

## SHELL OIL COMPANY, Houston, TX

Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/MS/Mechanical, Chemical, Electrical, Geological, Mining, Petroleum Engineering, Computer Science, Data Processing, MS/Physics. Job descriptions will be posted with signups. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Various  
Interviewers: unknown  
Interview dates: October 18, 19, 20, 1983  
Number of schedules: 1 morning schedule - Oct. 18, 19; 1 afternoon schedule - Oct. 20 for CHE; 1 1/2 schedules each day for EE, GE, Min E, PE, ME, Physics & Computer Science  
Priority signup: October 3, 1983  
Regular signup: October 4, 1983

## DOW CHEMICAL USA, Freeport, TX

Will interview DECEMBER 1983, MAY, JULY 1984 GRADS with BS/MS/Chemical, Mechanical Engineering, BS/MS/PhD Chemistry, BS/MS/Metallurgical Engineering -- job descriptions will be posted with signups for Dow Chemical USA. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Freeport, TX, Oyster Creek Div., Louisiana Div., Baton Rouge, LA, Div.; Michigan Div., Midland, MI Div.; Western Div., Pittsburg, CA  
Interviewers: unknown  
Interview dates: October 18, 1983  
Number of schedules: 2  
Priority signup: October 3, 1983  
Regular signup: October 4, 1983

NOTE: 1/2 of ALL DOW CHEMICAL SCHEDULES REQUIRE GPA GREATER THAN 3.0/4.0.

## UNION PACIFIC SYSTEMS (FORMERLY MISSOURI PACIFIC RR), Omaha, NE

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/EE, PE, CE, Comp Science, Engineering Management for Operations Department. GRADS PREVIOUS TO DECEMBER 1983 ARE TO SIGN ON BACK-UP LIST. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Omaha and throughout system  
Interviewers: unknown  
Interview dates: October 18, 19, 1983  
Number of schedules: 1-Camp Sci (Oct. 18)  
1-EE, ME, CE, Eng. Mgt. (Oct. 18)  
1-Eng. Mgt. (Oct. 19)  
Priority signup: October 3, 1983  
Regular signup: October 4, 1983

## DIGITAL EQUIPMENT, St. Louis, MO

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/Electrical Engineering, Computer Science for software development; microcode and operating system design; hardware design for Software Services Central Engineering Div. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO DEC. 1983, SIGN ON BACK-UP LIST.  
Location: U.S. area  
Interviewer: Geoffrey K. Lockett  
Interview date: October 18, 19, 1983  
Number of schedules: 1 ea day  
Priority signup: October 3, 1983  
Regular signup: October 4, 1983

## OLIN CORPORATION, East Alton, IL

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Mechanical Engineering for Production Engineer, Process Engineer, Project Engineer, Maintenance (Midwest, South, Northeast); BS/Metallurgical Engineering for Production Eng., Process Eng., Project Eng. (East Alton, IL); BS/Electrical Engineering for Power Application, Power Automation & Control (Northeast, Midwest, South). U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO DEC. 1983, SIGN ON BACK-UP LIST.  
Location: listed above  
Interviewers: unknown at this time  
Interview date: October 19, 20, 1983  
Number of schedules: 1-Oct. 19, 20 - ME  
1-Oct. 19 - Met E  
1-Oct. 20 - EE (A.M.)  
1-Oct. 20 - MetE (P.M.)  
Priority signup: October 4, 1983  
Regular signup: October 5, 1983

## STONE &amp; WEBSTER ENGINEERING, Boston, MA

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Electrical, Mechanical Engineering for Field/Office Engineer - Construction Sites, Nationwide. GRADS PREVIOUS TO DEC. 1983, SIGN ON BACK-UP LIST. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
Location: Nationwide  
Interviewers: unknown  
Interview date: October 19, 1983  
Number of schedules: 2  
Priority signup: October 4, 1983  
Regular signup: October 5, 1983

## ALCOA, Pittsburgh, PA

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/Engineering Management for entry level opportunities in Industrial Engineering. Details will be posted with signups. GRADS PREVIOUS TO DECEMBER 1983, SIGN ON BACK-UP LIST. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Location: Nationwide  
Interviewer: unknown  
Interview date: October 20, 1983  
Number of schedules: 1  
Priority signup: October 5, 1983  
Regular signup: October 6, 1983

## BOEING COMPANY, Wichita, KS

Will interview DECEMBER 1983 GRADS with BS/MS/PhD in EE, ME, Computer Science for Systems Engineering, Flight Controls, Electrical Eng. Design, Avionics Technology, Software Development. U.S. CITIZENSHIP ONLY. GRADS PREVIOUS TO DECEMBER 1983, SIGN ON BACK-UP LIST ONLY.  
Location: Wichita, KS  
Interviewers: unknown  
Interview date: October 20, 1983  
Number of schedules: 1 Electrical Eng. ONLY  
2-EE, ME, Comp Sci  
Priority signup: October 5, 1983  
Regular signup: October 6, 1983

## BOEING COMPUTER SERVICES, Wichita, KS

Will interview MAY 1984 GRADS ONLY with BS/MS/PhD in Computer Science; BS/MS/Applied Math; BS/MS/PhD Electrical Engineering with Computer Science minor for Computer Programmer Analysis. U.S. CITIZENSHIP REQUIRED BY COMPANY. GRADS PREVIOUS TO MAY 1984 MUST SIGN ON BACK-UP LIST ONLY.  
Location: Wichita, KS  
Interviewer: unknown  
Interview date: October 20, 1983  
Number of schedules: 1  
Priority signup: October 5, 1983  
Regular signup: October 6, 1983

## CONTROL DATA CORPORATION, Minneapolis, MN

Will interview DECEMBER 1983 grads with BS/MS/Electrical, Mechanical Engineering, Computer Science, Math with Computer Science for positions as programmers, analysts, and engineers. Complete details will be posted with signups. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO DEC. 1983, SIGN BACK-UP LIST.  
Location: Midwest/Nationwide  
Interviewer: unknown  
Interview date: October 20, 1983  
Number of schedules: 1  
Priority signup: October 5, 1983  
Regular signup: October 6, 1983

## FORD MOTOR COMPANY, Dearborn, MI

Will interview DECEMBER 1983 GRADS with BS/Electrical, Mechanical Engineering for Plant Engineering Design Engineer, Process Engineer. Details will be posted with signups. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST.  
Location: Sandusky plant, Sandusky, OH  
Interviewer: unknown  
Interview date: October 20, 1983  
Number of schedules: 1  
Priority signup: October 5, 1983  
Regular signup: October 6, 1983

## KANSAS GAS &amp; ELECTRIC COMPANY, Wichita, KS

Will interview DECEMBER 1983 GRADS ONLY with BS/Mechanical, Electrical, Nuclear Engineering for Plant Engineering Operations, Quality Assurance, and Nuclear Services. U.S. CITIZENSHIP REQUIRED. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: Nuclear Department positions based in Wichita, KS and the Wolf Creek Generating Station near Burlington, KS  
Interviewers: unknown  
Interview date: October 19, 1983  
Number of schedules: 2  
(Note: Date changed from Oct. 20 to Oct. 19, 1983)  
Priority signup: October 4, 1983  
Regular signup: October 5, 1983

## COLES MOULTRE ELECTRIC COOP, Mattoon, IL

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Electrical Engineering for Electrical Engineer (power distribution). SCHEDULE WILL BE FOR AFTERNOON ONLY; SIGNUPS WILL BE FOR AFTERNOON ONLY. U.S. CITIZENSHIP REQUIRED BY COMPANY.  
Location: Mattoon, IL  
Interviewer: John Dooley  
Interview date: October 20, 1983  
Number of schedules: 1-PM ONLY  
Priority signup: October 5, 1983  
Regular signup: October 6, 1983

## DEPARTMENT OF THE NAVY, FLEET ANALYSIS CENTER, Corona, CA

Will interview DECEMBER 1983, MAY, JULY 1984 GRADS with BS/MS/Electrical, Mechanical Engineering, Engineering Management, Physics with concentration in engineering courses for engineering analysis of Naval weapons performance in the following divisions: Fleet Analysis Center, Naval Weapons Station, Navy Metrology Engineering Center, Naval Weapons Station, Fallbrook Annex. MUST HAVE U.S. CITIZENSHIP - PERSONNEL MANAGEMENT REGULATION. PLEASE NOTE: AFTERNOON INTERVIEWS WILL BE FOR ELECTRICAL ENGINEERS ONLY. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: Corona, Seal Beach, Pomona, Fallbrook, CA  
Interviewers: unknown  
Interview date: October 20, 1983  
Number of schedules: 1 (Morning portion - Mechanical, Engineering Management, Physics ONLY)  
(Afternoon portion for Electrical Engineers ONLY)  
Priority signup: October 5, 1983  
Regular signup: October 6, 1983

## AVX CORPORATION, Myrtle Beach, SC

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Ceramic, Electrical, Mechanical Engineering. U.S. CITIZENSHIP REQUIRED. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: Myrtle Beach, SC  
Interviewers: unknown  
Interview date: October 21, 1983  
Number of schedules: 2  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983

## U.S. ARMY MATERIEL DEVELOPMENT &amp; READINESS COMMAND (DARCOM), Davenport, IA

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Mechanical, Electrical Engineering for CIVILIAN POSITIONS. Training will be for one year at the Intern Training Center, Red River Army Depot, Texas. Training will be in Product/Production, Safety, Maintainability, or Quality & Reliability Engineering. PROGRAMS START IN JULY 1984 - FIRST PREFERENCE WILL BE GIVEN TO SPRING GRADUATES. FEDERAL PERSONNEL REGULATIONS REQUIRE U.S. CITIZENSHIP FOR SECURITY CLEARANCE. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST.  
Location: Nationwide  
Interviewer: unknown  
Interview date: October 21, 1983  
Number of schedules: 1  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983

## DYNATICS, INC., Huntsville, AL

Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/PhD in Electrical Engineering for research, engineering and analysis of tactical and strategic weapon systems and components including radars, optical subsystems guidance and control systems, and advanced technology assessments. U.S. CITIZENSHIP REQUIRED. MUST BE IN TOP 25% OF CLASS. GRADS PREVIOUS TO DEC. 1983 MAY SIGN ON SCHEDULE IF THEY MEET REQUIREMENTS.  
Location: Huntsville, AL; Ft. Walton Beach, FL  
Interviewer: unknown  
Interview date: October 21, 1983  
Number of schedules: 1  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983

see page 12

## Newman Community - UMR

## Catholic Campus Ministry

## MASS SCHEDULE

## SUNDAY

10:00 a.m. St. Patrick's Hall  
5:15 p.m. St. Patrick's Church

## WEDNESDAY

7:00 Newman Center

Fr. Steve Faletti

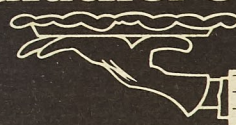
phone

Center -- 364-2133

Residence -- 364-1036

Newman Center 908 Main

## Godfather's Pizza



A pizza you can't refuse.

Forum Plaza Shopping Center 364-3214

## Comments

from page 10

and clubs, and some sports and outdoor activities. It doesn't seem appropriate to me to devote a full page of pictures to a Jello-eating contest and then crowd group photos of six special interest groups onto one.

Why not devote one picture to each party, and use the rest of that space to print larger group shots and show a few outdoor activities beyond varsity sports? It is almost impossible to identify any of the people in the pictures at the back of the book, not to mention that the borders make the group shots look like ads. Surely it is not necessary to use half a space to say there is no picture available.

I think the yearbook was poorly planned.  
Sincerely,

Tim



## Octoberfest '83

St. Patrick Parish  
Family Picnic

Rolla

Sunday, Oct 2

Family Style Dinner 12-7 p.m.

All you can eat

Roast Pork \* Bratwurst \* Sauerbraten  
Green Beans \* Mashed Potatoes & Gravy \* Sauerkraut  
\* Applesauce \* Dessert \*

Adults \$4.50 Children 12 & under \$2.50  
\$1.00 off with student I.D.

Games \* Crafts \* Beer Garden

FOR YOUR LISTENING ENJOYMENT

Terry Loehrig Family German Band 2-7 p.m.





## Permanent from page 11

**CENTURY ELECTRIC INC.** (no longer part of Gould) Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/Electrical, Mechanical Engineering, Engineering Management for entry-level engineer interested in Product Development, Engineering or Operations & Manufacturing; entry-level engineer interested in pursuing Sales or Marketing. Details will be posted with signups. MINIMUM OF 2.5/4.0 GPA REQUIRED. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.  
Location: Missouri, New York, Tennessee  
Interviewer: unknown  
Interview date: October 21, 1983  
Number of schedules: 1  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983

**MARATHON PIPELINE COMPANY**, Martinsville, IL Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/Civil, Mechanical, Electrical Engineering. CIVILS CAN SIGN ON AFTERNOON SCHEDULE ONLY (also open to EE, ME). U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO DECEMBER 1983 SIGN ON BACK-UP LIST ONLY.  
Location: Marathon Pipeline Co., Eastern Div.  
Interviewer: unknown  
Interview date: October 21, 1983  
Number of schedules: 1  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983  
NOTE: AFTERNOON ONLY SIGNUPS FOR CIVIL ENGINEERS!

**I-T-E ELECTRICAL PRODUCTS**, formerly the Distribution and Controls Division of Gould, HAS CANCELLED THEIR INTERVIEW DATE OF NOVEMBER 1, 1983. Interview date of February 2, 1984, is still confirmed at this time.

**SIFMENS-ALLIS**, Overland Park, KS Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Electrical, Mechanical Engineering, Engineering Management for Sales & Marketing, All Divisions. Represent companies (13) electrical equipment manufacturing divisions in direct sales to the utility, industrial and distributor market. Interface with engineer and purchasing function. Extensive factory and sales office training required. U.S. CITIZENSHIP REQUIRED. GRADS PREVIOUS TO DEC. 1983 MUST SIGN ON BACK-UP LIST.  
Location: unknown  
Interviewer: Richard T. T. Louis  
Interview date: October 21, 1983  
Number of schedules: 1  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983

**MEKOR-CLARK, INC.**, Hazelwood, MO Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Electrical, Mechanical Engineering for New Product Design. U.S. CITIZENSHIP ONLY. GRADS PREVIOUS TO DEC. 1983 MUST SIGN ON BACK-UP LIST.  
Location: St. Louis  
Interviewer: unknown  
Interview date: October 21, 1983  
Number of schedules: 1  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983

**HARRIS CORPORATION**, Melbourne, FL Will interview DECEMBER 1983 GRADS with BS/MS/Electrical Engineering to design digital or analog circuits, or high technology broadcast systems including audio, video, RF and antenna; BS/MS/Electrical Engineering for Broadcast Sales Specialist - technical sales support responsibilities while training for field sales.  
Location: Quincy, IL U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.  
Number of schedules: 1 - Broadcast Div. (Sales Dept.)  
1 - Broadcast Div.

Will interview DECEMBER 1983 GRADS with BS/MS/PhD in Electrical Engineering, Computer Science for Government Systems Sector (GSS). U.S. CITIZENSHIP REQUIRED BECAUSE OF WORK ON GOVERNMENT CONTRACTS. 3.0 OR HIGHER GPA PREFERRED.  
Location: Melbourne, FL  
Number of schedules: 1 ea for EE, Comp Sci  
Interview date: October 21, 1983 (ALL DIV. OF HARRIS CORP.)  
Priority signup: October 6, 1983  
Regular signup: October 7, 1983  
NOTE: GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST.

### PRE-RECRUITMENT MEETING:

**HARRIS CORPORATION** will hold a Pre-Recruitment Meeting on the evening of October 20, 1983, 7:00-10:00, UNIVERSITY CENTER WEST.

### CANCELLATIONS:

**KING RADIO** has cancelled their interview date of November 8, 1983.  
**TEXAS POWER & LIGHT COMPANY** has cancelled their interview date of Oct. 19, 1983.  
**TRG INDUSTRIES, INC.** has cancelled their interview dates of Oct. 25-26, 1983.

### ADDITIONS:

**RIEDEL TEXTILE**, Maryville, MO has added a schedule on October 26, 1983.  
**GEARHART INDUSTRIES**, Ok City, OK has added a schedule on October 24, 1983.  
**JOHN F. KENNEDY SPACE CENTER** has changed their interview date to October 26, 1983.  
**B-LINE SYSTEMS**, Highland, IL has added a schedule on October 27, 1983.  
**U.S. ARMY** has added a schedule on November 9, 1983.  
**VOUGHT CORP.** has added a schedule on November 10, 1983.

**GENERAL MOTORS CORP.** REQUESTS THAT STUDENTS WITH LESS THAN A 2.8 GPA SIGN ON BACK-UP LIST ONLY. Schedule reading: Chemistry, Chemical Engineering should now read: Chemistry, Chemical Engineering, Math, Physics; Metallurgical Engineering, Ceramic Engineering on Tuesday, Oct. 11. (Exact number of openings will be posted prior to signups). Company has also deleted portion of schedule reserved for Math/Physics on October 12.

## McNutt Hall from page 1

scholarships, fellowships or other aid from the foundation.

Ray Morgan, UMR emeritus professor of geology and geophysics who administers McNutt Foundation funds, said, "Mrs. McNutt's concern goes far beyond providing financial help to the scholarship recipients; she takes a great personal interest in the students. In addition, McNutt Foundation funds have been used for equipment for the department and professional development of the faculty."

According to Warner, it is fitting that UMR's new Mineral Engineering building be named to V.H. McNutt. "His achievements are a legend and have been a source of continuing credit to this institution. Mrs. McNutt, or 'Mamma Mac' as she is affectionately known, has long taken an active role in supporting mineral science and engineering on this campus, and the commemoration is a tribute to her as well as to V.H. McNutt," he said.

McNutt received a B.S. degree in mining engineering (1910), an M.S. (1912), and an engineer of mines degree (1915) from what was then the University of Missouri School of Mines and Metallurgy. While teaching geology at MSM, he developed the first course in petroleum geology taught in any institution west of the Allegheny Mountains.

In 1913, he took a leave of absence from MSM and set up a petroleum geology consulting office in Tulsa, the first in the mid-continent region. For the next 18 years, he and Mrs. McNutt traveled throughout the United States searching for oil and gas. Among their discoveries were the first commercial oil deposits in western Kansas and in New Mexico, and in 1925 they discovered the first commercial potash deposits in this hemisphere near Carlsbad, N.M. During the last years of McNutt's life when he was seriously ill, Mrs. McNutt took over much of the handling of the complex McNutt operations and carried on this work after his death in 1936.

In 1964, UMR awarded Mrs. McNutt the institution's first honorary doctor of humane letters degree. She is an honorary Knight of St. Patrick and a member of the Order of the Golden Shilleagh at UMR.

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BY CHRIS CO

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## Miners impressive at home

BY CHRIS COLONA

Are the 1983 Miners for real? After impressive wins in the past two weeks, the UMR football team is making believers out of their opponents.

The Miners found consistency in their offensive attack in taking a 17-14 decision from Pittsburgh State on September 17. The Miner rushing game, led by senior running back Randy Shed, rolled up 291 yards. UMR had 400 total yards on offense while holding Pittsburgh State, an impressive offensive team in its first two contests, to 213 yards in total offense. "We got a lot of consistency in our running game and mixed passes as well," head coach Charley Finley said. "The big problem was turnovers."

In fact, the only negative aspect the Miners showed during the contest was the turnovers—a total of four. Three fumbles and one pass interception helped keep the game close.

Running behind an offensive line that provided excellent

blocking, Randy shed romped for 154 yards on 24 carries and was honored as MIAA offensive player of the week. He was backed by freshman fullback James Hoy with 69 yards on 12 attempts.

The strong UMR defense was led by sophomore tackle Bob Gorham with 11 tackles. Defensive end Rickie Caruthers, past MIAA defensive player of the week, had nine tackles.

A couple of injuries hurt UMR during the game as starting fullback Mike Schafer fractured a rib and defensive back Bill Bohnhoff pulled a hamstring. Schafer might be back next week but Bohnhoff will be lost for four to six weeks.

The Miners hosted the University of Evansville Aces on September 24th at Jackling Field. The Miners were slow to get rolling, but on the strength of 27 second-half points, UMR rolled over the Aces 37-6.

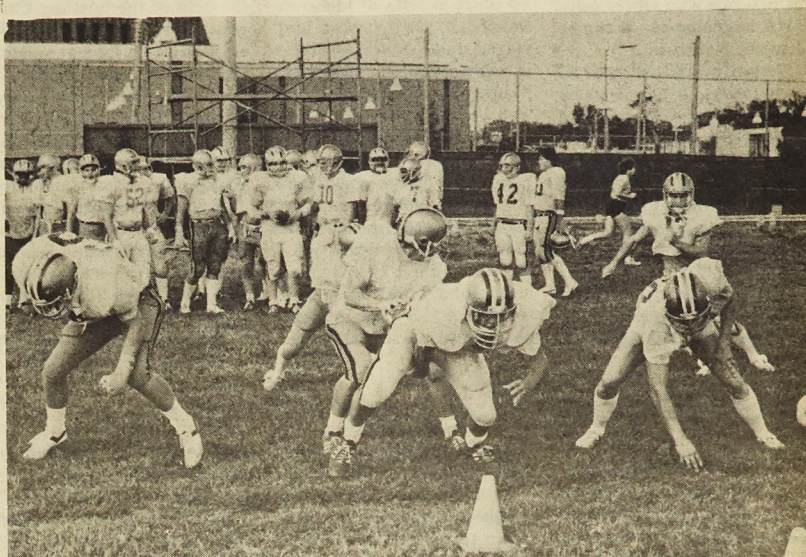
It was a game marked by turnovers—15 in all. The Aces

lost 6 fumbles, while the UMR secondary picked off 4 interceptions. The Miners were able to capitalize on turnovers, scoring four touchdowns after Evansville's fumbles put the Miners in good field position.

Again the Miner rushing attack was in top form, led by senior running back Randy Shed. Shed picked up 141 yards on 18 carries while the Miners rolled up 291 yards total rushing.

The Miner defense put the clamps on the Aces' ground game, holding the Aces to -42 yards total rushing offense. Evansville relied heavily on their passing attack while trying to play catch-up football all game long. The Aces attempted 52 passes, completing 22 for 290 total yards. Sophomore linebacker Glenn Wilhelm led the defense with 14 tackles.

The Miners will take their road show to Jefferson City this Saturday to do battle with MIAA opponent Lincoln University. Kickoff time is 1:30 p.m.



Constant repetition of plays is the only way to success. For the Miners, shown above in offensive drills, the practice paid off—291 rushing yards and 400 total yards resulted in last week's 17-14 win over Pittsburgh State.

## Men's cross country spell

# Double trouble

BY DAN LICHTENWALNER

The men's cross-country team divided the lettermen last weekend, sending seven runners to Southwest Baptist for the SWBU Invite, while the other runners ran on the home course against School of the Ozarks.

The runners at Southwest Baptist made a strong showing, coming in first with only 19

points. William Jewell finished in second place with 80 points, while Westminster finished in third with 93 points of the 10 schools that competed.

Due to the gusty winds and rough terrain, times were a bit slower than usual. The overall winner was Danny Bryant of Mo. Baptist, with a time of 25:48. Leading the Miner attack was Jim Bullard, finishing

second with a time of 26:03. Both of these runners broke the old course record of 26:19. Finishing fourth and fifth overall were Dan Marley (26:48) and Pete Lichtenwalner (26:57). Pete and Dan worked together for the majority of the race and helped each other along, holding off a Missouri Baptist runner who was the 1982 Mo. state high school champion.

Mark Stump stepped up in team ranking as he finished fourth for the team, and seventh overall in 27:40. Mark has been improving dramatically, as is John Borthwick, who finished eighth in a time of 27:48. John used his track instinct to unleash an awesome kick, blowing by two runners in the final straightaway. Curt Filmore was the next Miner

finisher, ciming in fourteenth place with a time of 28:17. Curt was a victim of the many ditches along the course, as he was tripped up midway into the race. Keith Smith also was plagued by hard luck, as illness caused him to pull out of the race early.

With this strong of a showing by the team, the Miner hopes are still high.

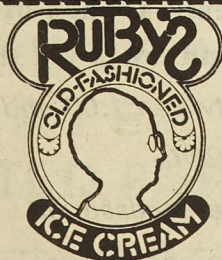
Back on the home front, things were looking just as well. The Miners defeated School of the Ozarks 27 to 30, keeping their undefeated streak at home. Paul Heuton of S. of O. was the overall winner in a time of 26:14. Bob Sauer came across first for the Miners,

finishing second in 26:28. Bob has definitely been one of our most improved runners, as his time was 50 seconds better than his previous best. Dan Ray, also continuing to improve, finished fourth overall with a 27:24. The next five UMR finishers were Joe Henze, 27:48 (6th); Scott Giltner, 28:18 (7th); Curt Macke, 28:08 (8th); Craig Scott, 28:18 (10th); and Jim Clossick, 28:25 (11th).

The Miners are looking forward to having next week off so they can prepare for the Miner Invitational on October 8 at 10:15 on the golf course. Look for more details in next week's Miner.

## Photographers Wanted!

The Miner staff needs a few hard-working, energetic photographers!



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# Two wins in overtime for men's soccer

BY CHRIS COLONA

In the men's soccer team's last two games the Miner's have been providing more suspense than an Alfred Hitchcock thriller. Taking both games into overtime, where the first one who scores wins, UMR has come out on top by identical 2-1 scores.

Getting a first-half goal by freshman Keith Vandersteen, the Miners got out to the lead against Northeastern Oklahoma State. That would be all UMR would get for a long time. The Oklahoma team came back to tie it and battled with the Miners all the way down to the wire. "To put it bluntly, I was shook," describes coach Paul McNally about how the game was going, "but we turned

it on in O.T." On assists from sophomores Jeff Smith and Steve McVey, Vandersteen scored the game winner with only 64 seconds left in the second overtime.

Only one night later the Miners faced Missouri Southern for another cliffhanger. To start it off, a Missouri Southern player who had played under coach McNally in high school put Missouri Southern up 1-0. Only playing well when they had to, UMR tied it up on a penalty kick. Two players from DeSmet High School accounted for UMR's first goal as freshmen Mike Lane got tripped inside the penalty area which gave the Miners a free kick. Sophomore John True's blast converted the free kick into the goal that would send the game

into overtime.

"We should've never went into overtime," said Andy Carpenter, another DeSmet alumnus, "but we're a young team that needs to play together more." Once into overtime, though, the Miners got things going and scored with the help of the bustling Carpenter. True beat two defenders down to the right side of the goal line and chipped it toward the far post where Carpenter was headed. Carpenter made a diving attempt to head it in, but the Southern goalie deflected it straight up. Jumping to his feet, Carpenter got the rebound while it was still in the air and headed back across to Rick Wilhelm, who finished it for the goal and the game.

With the two wins, the men's

record climbed to five wins and two losses. Before this writing is published, they will have had two more games, one against Rockhurst in Kansas City and one in Rolla versus Maryville College. The Rockhurst game should be a test of the Miners' strength as the team has never beaten a Rockhurst soccer team. As of this writing, UMR was ranked second in the NCAA Division II's Midwest Regional Poll, sponsored by the Intercollegiate Soccer Association of

America.

"We're always tough when we play our game," said the only senior of the ball club, captain Matt Budd. "We just need to settle down and play without starting so slow." The sluggish early play was also a concern of coach McNally, but he hoped the team wouldn't hit its peak until a little later in the season. With their success of the team so far, while admittedly not playing as well as they can, the season has to start looking like it can be a

very successful one for the Miners.

Of all the big games left, the three biggest have to be the conference matches against Northeast Missouri State, Southeast Missouri State, and UMSL, all of which will be played in Rolla. "If we play UMSL well, we should have a good chance to win our division," Carpenter reported. "Our team has no outstanding players to rely on but we've all been playing real good and have a lot of depth."

## Consolation win

BY TRACY BOLAND

The Lady Miners played three matches, this past weekend at the UMSL-Budweiser National Women's Soccer Tournament.

The outcome of these three matches was that UMR won the Consolation Bracket and finished fourth out of ten teams from around the nation. Tangible proof of the women's prowess will be on display in the UMR sports trophy case in the form of a lovely marble, wood and plastic trophy.

Now for some awe-inspiring details. The women's first game was against UWM on Friday night, and, sad to say, they were defeated by a score of 2-0. The game went against the Miners, in this reporter's opinion, due to a lack of concern for the safety of the UMR players on the part of the referees. It should be noted that the final foul tally for UWM was 25, as opposed to UMR's 7, and three of UWM's players had four fouls apiece. Not one warning was issued to that team by the referees.

All of the bad news aside, the rest of the article can be devoted to praising the soccer abilities of the team members. Furthermore, let it not be said that these praises are just idle verbiage, for the women proved their soccer skills by defeating both Quincy and Metro college. Quincy was a last-minute face and fall before UMR on Saturday evening, and this they did by a score of 2-0. This score is significant because it is the second shut-out of the season for goalie Lisa Frumhoff. Her goals against average is less than one for four games to date.

This game was also important for Kris Brillhart, as she scored one goal, had one assist and five shots on goal, a record which helped her to win an individual trophy as a member of the All-Tournament Team. Brillhart's goal came twenty minutes into the first half, when she took a left-footed

shot that breezed past a falling Quincy goalie into the net.

A short time thereafter, Brillhart made a quick run down to the end of the field with the ball, and curled it back in front of the Quincy goal to a waiting Jan Wilkerson, who knocked it past the goalie with a picture-perfect head ball. That occasion marked the second time Wilkerson had performed such a maneuver against Quincy; some readers might remember the similar situation last year.

But perhaps the most morale-boosting game to date for the women came against Metro College on a wet, rainy Sunday afternoon. UMR trampled Metro 4-1 in a match which left players looking like actors in a Tide commercial. Midfielder Sue Shrum scored two goals, while Janet Stones and Val Schaffner both scored one apiece. Almost all the goals were characterized by a first shot bouncing off the Metro goalie, who was having trouble keeping control of the ball, and then being pelted back in by a determined UMR

team. Assists for the game go to Janet Stones, Gina Tonsi, Carolyn Baker and Eve Watkins.

It is this reporter's belief that the Miners would not have enjoyed such success this past weekend were it not for members of the team who play the usually unrecognized defensive positions. I would like to take this opportunity to acknowledge players like Joan Gleich, Angie McEntire, Laura Douglas, Sandy Hall, and Janet Waeckerle, who had the unenviable responsibilities of supporting the UMR offense when they had possession, and then having to race back to defensive positions to shut down counterattacks by the opposition upon UMR's loss of the ball.

The Lady Miners presently have a 3-1 record which they will have, hopefully, upped to 4-1 against Maryville on Wednesday. For those sports fans missing the home opener, the women will next be playing in Rolla on October 4, against SIU-Edwardsville. This will undoubtedly be one heck of a match.

## Women's cross country runs

### Best times of year

BY TRACY BOLAND

This past Saturday, the UMR women's cross-country team hosted the School of the Ozarks here in Rolla. Even though three of the five UMR runners had the best times of the lives (running, that is), the Lady Miners fell to the opposition by a mere three points. On a 5000 meter course, the School of the Ozarks' Becky George led the women with a time of 19:24, and Jill Cameron placed second for UMR at 20:29. Cameron, Gail Halsey, and Amy Noel all managed to nick precious seconds off their times during the meet to run the best times of their lives. The other two UMR runners, Karen Penney and Karen Olsen, ran times that were their best for the year.

Coach Sarah Preston was very pleased with the team's performance and cited their times as a "tremendous improvement." She appeared to

have high hopes for the team's finish when they go up against nine other colleges in the UMR invitational on October 8.

## Wet weekend

BY ANNE WERNER

The Bud Light Invitational Waterpolo tournament is the only tournament during the season that the team plays at home. Some of the best teams in the United States will be on hand at the tournament. The games begin Friday evening and end with the championship game Saturday evening at the Multipurpose Building Swimming Pool.

Last weekend the waterpolo

team enjoyed their one weekend off during the season. They spent their free time in preparation for this weekend's tournament.

Admission to the tournament is free for UMR students. If you are looking for something to do this weekend, the swimming pool will be the place to be for excitement and great waterpolo. Of course, there is always the waterpolo party at Tech Engine Club after the tournament on Saturday night.

The M-Club is present this award to Shed of the Miner team for his outstanding performance in the d

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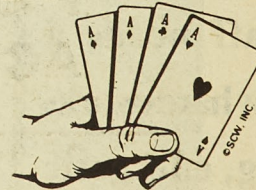
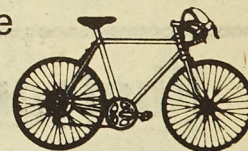
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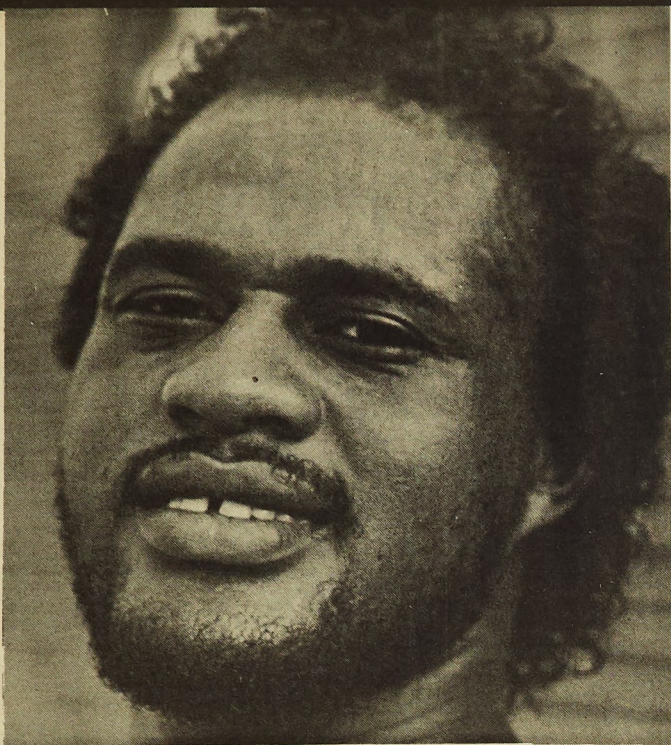
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Eric Gieseke

## M-CLUB Athlete of the Week

The M-Club is proud to present this award to Randy Shed of the Miner football team for his outstanding performance in the defeat of

Pittsburgh State. Randy showed his speed and agility by rushing for a total of 154 yards, and making 3 pass receptions, including a 21 yard

touchdown pass. Randy was voted the MIAA offensive player of the week as a result of his effort. Congratulations, Randy!

## IM football

### Chi O, Sig Nu still hot

By: BOB GAYNOR

After two days of action last week, three women's teams and eight men's teams remain undefeated in IM football action. Thanks to a forfeit by TJ last week, Chi Omega's perfect record in women's football remains intact. GDI raised their record to 2-1 after a 6-0 shutout over Kappa Delta, who has yet to win a game. The Stardusters are still in a 3-way tie for first after an overtime closest-to-goal victory over AWS, whose record dropped to 1-1. The only other undefeated team in the women's division is the White Stars, who were idle last week.

Two 0-1 teams got together on the men's side last week. Triangle and Kappa Sigma battled to a 21-21 tie. If ties are like kissing your sister, one player will probably have to wait for a while. The first injury of the season left an unidentified player with a broken tooth. He may not be happy, but his dentist surely didn't shed a tear.

In other action, the Vets dropped Kappa Alpha Psi from the ranks of the undefeated with a hard-fought 14-8 victory. The Vets are now at 1-1. A.E. Pi raised their record to 2-1 with a 10-7 win over a winless TJ.

Sigma Pi fought hard, but pre-season favorite Sigma Nu kept their record perfect with a 16-6 victory, as Sigma Pi saw their totals fall to 1-2. Tech became Dennis' choice to face Sigma Nu in the finals after a 28-7 romp over previously undefeated Sigma Phi Epsilon. Sigma Tau Gamma hasn't lost, either, but hasn't had much in the way of competition, as they trounced a winless Theta Xi, 32-6. However, Sigma Tau is sure to be near the top as the

season nears its end. The Tekes upped their record to 2-1 after a 21-0 whitewash of Delta Sigma. Finally, BSU got their first win with an overtime 1-0 win, giving RHA their first loss.

There's a full schedule planned for tonight. The games to watch are: Sigma Pi (2-1) against an undefeated Phi Kappa Alpha (2-0), and two winless teams try to break their streaks (Theta Xi vs. TJ). Both of these games are at 6:30. Other games tonight are:

	East	West
7:45	Sig Ep vs. Kap Sig	BSU vs. Vets
9:00	Delta Sig vs. Beta Sig	Acacia vs. AEPi

#### Next week's games are:

##### Monday:

6:30	Tech vs. Kap Sig	Sig Chi vs. KAPsi
7:45	Campus vs. KA	AF vs. GDI
9:00	Delta Tau vs. Lam Chi	RHA vs. KD

##### Tuesday:

6:30	RHA vs. Vets	ABS vs. AEPi
7:45	TKE vs. D Sig	CCH vs. KAPsi
9:00	Pi KA vs. Triangle	Theta Xi vs. GDI

ROLLA

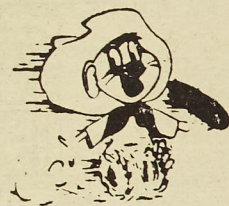
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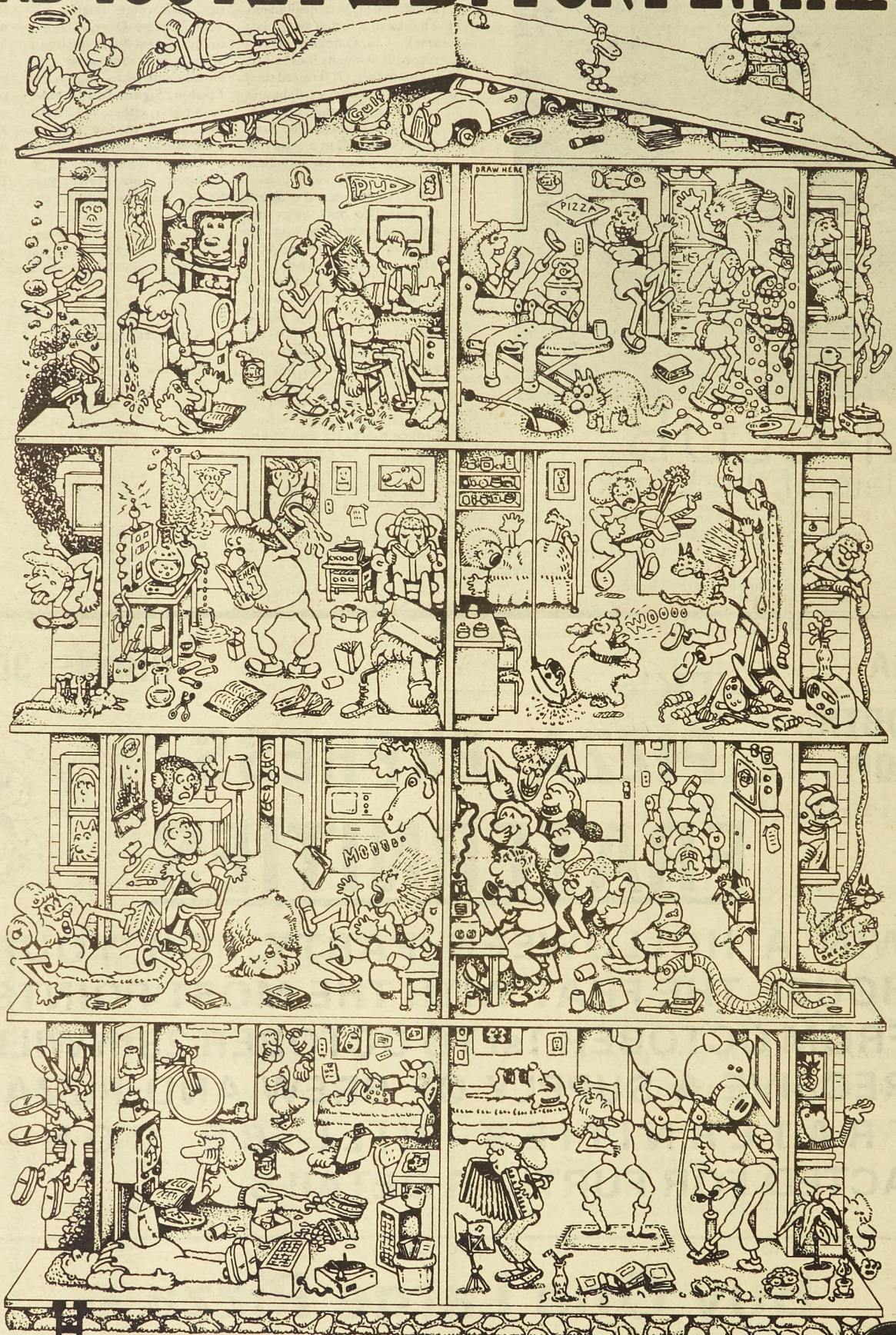
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## Balloons the s

BY PHYLLIS

Friday night, were startled to see a balloon floating at the tops of Rolla. The balloon was named China, and that's the word for the field between the Rolla and the Rolla. Steve Morose, of St. Louis, was the presence of races in town.

There were 3 races at Lions' Club Park on Saturday, 5 p.m. and 8 a.m. Sunday. There were to be Hare races. In a Hare race, there is a lead the hare—which is 20 minutes ahead. The lead balloon is the Chariot of Fire Balloonport. The balloons, in this case, off and try to follow as close as they can. You have no way to pull the balloon! But by vertical pull rope, the parachute valve

## Bike

BY PHYLLIS

There is a problem with students parking their bicycles illegally, causing a real problem on campus. Bikes which are parked to handrails, handrails and shrubby carous and can cause a problem. Dr. Charles D. Parking Security Committee, really want to have to take measures against the matter of ignoring