



22 Sep 1977

The Missouri Miner, September 22, 1977

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The Missouri Miner

Official Publication of the Students of the

University of Missouri at Rolla



Thursday, September 22, 1977

Volume 64, Number 5

12 Pages

Six Others Injured

Explosion Kills UMR Student

SOURCE: OPI

One student was killed and six others were injured Tuesday evening when a cannon exploded on the Kappa Alpha Fraternity lawn at the University of Missouri-Rolla.

Randall L. Crustals, suffering from severe head injuries, was taken to the Phelps County Hospital then transferred to St. John's Hospital in St. Louis. He was pronounced dead at St. John's at 11:25 p.m. He was a 20-year-old senior majoring in mining engineering, the son of Mr. and Mrs. Edward Crustals of 10642 Hallwood, Florissant.

The other injured students were Susan E. Diehl, 18, of Branson; Gerlad M. Tarr, 19, of Raytown; Mark A. Winnett, 20, of Ellisville; Karen L. Burnham, 20, of Joplin; Kenneth L. Miller, 19, of Chesterfield; and Michael S. Ferguson, 20, of Blackjack. Ms. Diehl, Tarr and Ferguson were listed in

satisfactory condition at the hospital this morning (Sept. 21). Miller was listed in satisfactory condition at the UMR infirmary this morning.

Ms. Diehl underwent surgery Tuesday night for a broken right ankle and back lacerations. Tarr underwent surgery on his right leg. Miller and Ferguson were treated for groin injuries. Winnett was treated at the UMR infirmary for a bruised foot and released and Ms. Burnham was treated at the infirmary for a small stomach cut and released.

The accident occurred at 8:30 p.m. Tuesday at the Kappa Alpha Fraternity on Nagogami Road, just northwest of the main campus. The 77 member fraternity had just completed pledging ceremonies for 10 new members of the Daughters of Lee, the fraternities' Little Sisters organization. (Little Sisters are affiliated groups of

young women which most campus fraternities have to assist with social functions such as parties, homecoming events, etc.)

The pledging ceremony was conducted at the First Methodist Church in Rolla. The members and pledges had just returned to the fraternity house for a small celebration when the accident occurred.

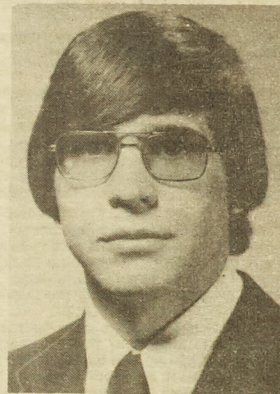
The cannon is traditionally fired at the pledging of this class. It is also fired at numerous other occasions and was fired recently without incident. Tuesday the first loading misfired. The cannon was then recharged and fired when it exploded.

The cannon stands on the lawn of the fraternity. It is a simulated civil war cannon which was cast in a foundry by one of the members' father about 12 years ago. It stands about four foot high and has a

three foot barrel.

When the cannon was fired the barrel split and metal fragments scattered over a large area. Crustals was about 50 feet from the cannon at the time of the accident while other students, who were standing much closer to the cannon, were unharmed.

Ms. Diehl is a freshman majoring in chemical engineering, the daughter of Mr. and Mrs. George Diehl of Star Route, Branson. Tarr is a sophomore majoring in metallurgical engineering, the son of Mr. and Mrs. Clarence M. Tarr of 10621 E. 65th, Raytown. Winnett is a junior majoring in mechanical engineering, the son of Mr. and Mrs. David M. Winnett of Ellisville. Burnham is a junior majoring in computer science, the daughter of Mr. and Mrs. Arlan C. Burnham of 3401 Moffet, Joplin. Miller is sophomore majoring in ceramic



RANDALL CRUSTALS

engineering, the son of Mr. and Mrs. Leon Miller of 4 Youngstown Ct., Chesterfield. Ferguson is a junior majoring in electrical engineering, the son of Mr. and Mrs. Robert L. Ferguson of 5276 Cheltenham Road, Blackjack.

Pogue Speaks At Parent's Day

By Renny Eisele

On Saturday, September 17, the visiting parents to UMR were welcomed to the campus by Interim Chancellor James C. Pogue. The address was given in Centennial Hall in the new student union. In the hall, representatives of the major departments of the university were stationed to answer the questions of the parents.

Interim Chancellor Pogue introduced the various deans of the school that were present. He also said that this was the largest group of parents in the last four years to attend Parents' Day. The faculty representing the departments

were mentioned before the close of the short welcome address.

There were 1174 pre-registered persons for Parents' Day. Tours of the campus were given by the students for the parents. The members of the Student Union Board Hospitality Committee served as assistants at Parents' Day registration and reception and the Intercollegiate Knights and Alpha Chi Sigma provided the tours.

On the mezzanine of the library, an arts and crafts display was held by the KUMR Gallery. The display was open to the public from 10:15 a.m. to 5 p.m. the day of Parents' Day.

Several different mediums were exhibited at the show. The paintings were either in oil or watercolor and there was a display of pottery and many other crafts such as stone carving.

The artists and craftsmen were mostly people of the local area around Rolla, if not they were from the midwest area. Many of these people were at the exhibit to discuss their work and answer any questions. The exhibit was well received which was evident by the amount of people who went to view it. Many of the visiting parents went and saw the display, as well as students.



Nearly 1400 parents, guests, and relatives registered and participated in some portion of the Parent's Day program. As a part of this program, parents were permitted to use the observatory. With the use of a little special equipment, the parent shown above was able to view the sun.

(photo by H. Burford)

Search Committee Positions Announced

By ED LATIMER

During his visit to the UMR campus, Dr. James C. Olson, president of the University of Missouri school system, announced plans for reconstituting the chancellor's search committee.

The previous committee did not produce a chancellor selection, and so Dr. Olson took this new action to find one. Dr. Jim C. Pogue has been acting as interim chancellor since Jan. 1, following the resignation of Chancellor Bisplinghoff.

Although the committee has

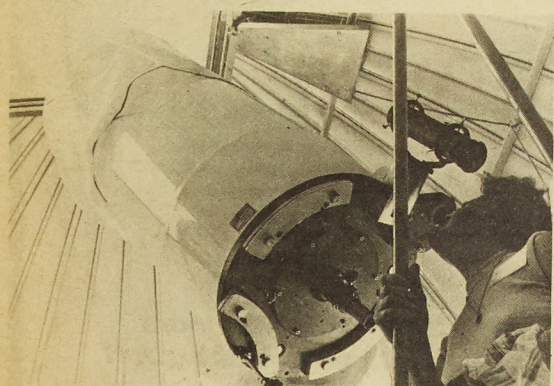
not yet been fully formed, it will consist basically of twelve members. Of this twelve, six will be elected as representatives of the faculty. Of these six two will come from the School of Engineering, two from the School of Mines and Metallurgy, and two from the College of Arts and Sciences. Each school and college is responsible for the election.

Of the remaining six, two will be campus administrative representatives (recommended by the Chancellor's Council),

two students (one undergraduate and one graduate), one member of the MSM-UMR Alumni Association (selected by the association), and one member of the central administration (selected by President Olson).

Dr. Olson also requested that the committee include representation by women and minorities.

Dr. Pogue expects to give the list of members to President Olson late this week or early next week.



These excellent pieces of pottery are just one of the many exhibits that were displayed in the library on Parent's Day. The craft show was sponsored by KUMR radio.

(photo by Burford)

Bullboard

Notices to appear in the Bullboard section should be typed and deposited in the north door of the Miner office by 9:00 p.m. Monday. This will assure publication in the next edition

MISSOURI MINER

Thursday, September 22, 1977

Page 2

SUB COFFEEHOUSE

Friday, September 23, at 8:00 p.m. the Student Union Board will present the folk songs of Arne Brav in the Old Student Union Snack Bar. Every one is invited to listen to the pleasurable sounds until 10:00 p.m.

THETA TAU OMEGA

Theta Tau Omega, Professional Engineering Fraternity, is now accepting applications for membership. Applications are available at the candy counter in the Student Union and should be returned to the candy counter or to a Theta Tau member by Friday, September 23.

ROLLAMO

The 1977 Rollamo Yearbook will be distributed beginning Monday, Sept. 19, and lasting until Friday Sept. 23. Bring your valid UMR I.D. to the Rollamo office (G-1 Rolla Building) between the hours of 9:30 a.m. and 4:30 p.m. to pick up your yearbook.

ANNUAL CHARITY SOFTBALL TOURNAMENT

Kappa Alpha will again sponsor a slow-pitch softball tournament on September, 23-25 at Ber Juan Park. Entry fee will be \$30 per team. All proceeds will go to Muscular Dystrophy.

Any interested party may contact either Mark Winnett or Bob Boon at 364-4841.

AICHe

The next meeting of AICHe will occur at 7:00 on September 28, 1977 in Room G-6 of the Old Chemistry building. Mr. Dale Faerber, a UMR alumnus from the Baytown, Refinery, Exxon Company, will be the guest speaker. His dissertation will cover refinery operations. Memberships will again be offered after the meeting. Soda and donuts will be served after the meeting.

AICHe OUTING CHANGED

The AICHe semester outing, previously scheduled for September 24, has been changed to Saturday, October 1. The outing will be at Lions Club Park, Pavilion No. 2, and will start at about 11 a.m.-noon. All students and faculty are urged to come for this free picnic.

TOEFL

International students and their advisers may be interested to know that TOEFL (Test of English as a Foreign Language) will be offered on campus Monday, Nov. 7. To take it, a student must register in the office of Barbara Epstein, 229 Humanities-Social Sciences, no later than Friday, Sept. 30. The fee is \$12 per student and must be paid at the time of registration. Students will be notified of time and location of the test.

GDI MEETING

There will be a GDI meeting this Thursday at 7:00 p.m. in the Civil Engineering Auditorium, room 114. Memberships will be available, and refreshments will be served after the meeting. All independents are encouraged to attend.

AIAA

The UMR Student Branch of the American Institute of Aeronautics and Astronautics will have its next meeting October 5, in G-5 H-55 at 7 o'clock. Mr. Joseph Seidel of McDonnell Douglas will speak on the history and future of the US space program. Refreshments will be served after the meeting in the AE-ME lab. All are invited to attend.

SUB MOVIE ON SUNDAY

On Sunday, September 25th, the student union board will show the film classic, "Lawrence of Arabia." The movie, starring Peter O'Toole and Omar Sharif, will be shown at 4:00 and 6:30 p.m. in Centennial Hall. Admission is FREE with a valid UMR ID.

SMOKER

Proctor and Gamble Paper Products (formerly Charmin) presents an informal smoker on Monday, September 26th, 1977 at 4:30 p.m. in the St. Pat's Ballroom. This smoker is opened to all U.M.R. students. Those interested in the management field are especially urged to attend.

JOINT OUTING

The A.C.M., K.M.E., and U.P.E. Fall outing will be at Lane Spring Saturday September 24 from 1:00 til 4:00 p.m. Sign up at Programme Distribution by Friday.

AEG

There will be a general membership meeting of Association of Engineering Geologists on Thursday September 22 at 7:00 p.m. in Mining 107. There will be a speaker and refreshments served afterwards. All G.E.'s are encouraged to attend.

KME ACTIVE REQUIREMENTS

All KME activities are required to attend one help session this semester, and three help sessions are required of pledges. Actives and pledges alike should contact Cliff Klein at 364-9947 to sign up for help sessions if they have not yet done so.

IK

There will be a meeting of the Intercollegiate Knights on Thursday, September 22, 1977 in Room 119 M.E. at 6:30 p.m.

A.S.M.E.

The UMR chapter of the American Society of Mechanical Engineers will be hosting Mr. John Harder of Black & Veatch at its meeting Wednesday, September 28. The topic of discussion will be "Solar Energy". The meeting will be in the M.E. auditorium at 7:00 p.m. Everybody is welcome to attend. Memberships will be taken and refreshments will be served.

N.S.P.E.

Dr. James E. Halligan, Dean of the School of Engineering, will be the featured speaker at the first meeting of the National Society of Professional Engineers. Dean Halligan will speak on the "Value of an Engineering Education" and will answer questions on just about anything that might be concerned with N.S.P.E. The first meeting will be on Tuesday, September 27 at 7:00 p.m. in the M.E. Auditorium. We encourage all engineering students to join.

TAU BETA PI SMOKER

Tau Beta Pi will hold a smoker for prospective members on Tuesday, September 27, at 7:00 p.m. in St. Pat's Ballroom. Refreshments will be served.

ASSOCIATION OF ENGINEERING GEOLOGISTS

The next AEG meeting will be held tonight, Thursday, September 22, at 7:00 p.m. in Mining 107. Dr. T.R. Beveridge will speak on "Theoretical and Applied Rhabdomy." Memberships are still being accepted.

STUCO FUND APPROPRIATION

Every year student council is charged with the task of appropriating student funds to various campus organizations. The purpose of these funds is to:

- 1) Help new organizations get started.
- 2) Lend help to organizations which have declined, and
- 3) Assist organizations which are inherently unable to support themselves.

Any organization requesting funds should pick up the proper form at the student council office. These forms should be completed and returned with all proper information before October 7.

Mozart's Opera to be Held

SOURCE: OPI

A limited number of tickets is available for the Kansas City Lyric Theater production of Mozart's opera, "Marriage of Figaro," to be presented Sunday, Nov. 6, at the Rolla High School Gymnasium, 8 p.m.

The performance, sponsored by the music section of the University of Missouri-Rolla's College of Arts and Sciences, will be in English with full orchestra.

Orders for tickets may be mailed to Berna Harvey,

Student Union Program Office, University of Missouri-Rolla, Rolla, Mo. 65401 (be sure to include self-addressed stamped envelope). To purchase tickets in person, come by the program office, 218 University Center

West (hours 8 a.m. to noon and 2-5 p.m.). All checks should be made out to University of Missouri-Rolla.

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Concert Assoc. Campaign

SOURCE: OPI

The Rolla Community Concert Association will be conducting its annual membership campaign next week, Sept. 26-Oct. 1. Memberships for the upcoming season of four concerts may be purchased at that time at Scott's Book Store or from any Community Concert Campaign

worker. A special rate is offered for students.

The local association is affiliated with Columbia Artists Management of New York City. Through this affiliation the local group is able to bring first-rate performers to the community at a reasonable cost to the public.

This year's program will include David Bar-Illan (pianist), C.C. Ryder (troubadour), the Seovernian Singers of Yugoslavia, and the New York Pro Arte Orchestra. Admission is by membership only. Further information may be obtained from Carolyn Krebs, 222 Physics (341-4347).

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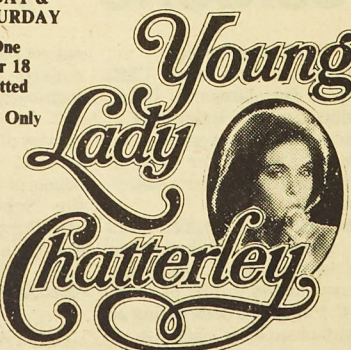
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A Pat On The Back....

The MISSOURI MINER encourages all campus organizations to submit typewritten articles concerning honors received, projects completed, or general recognition due for publication in this column. Articles submitted under auspices of the MISSOURI MINER.

Sig-Eps Named Outstanding Chapter

While attending their national conclave during Aug. 19-21 at Hot Springs, Arkansas, the Missouri-Gamma Chapter of Sigma Phi Epsilon was awarded the "Buchanan Outstanding Chapter Award" for their outstanding achievements in all areas of operation.

The Rolla Sig-Eps were one of

nineteen chapters to receive the award out of over 200 chapters throughout the nation.

The requirements for eligibility of the award is outstanding recognition in the areas of rush, finances, campus involvement, alumni relations, community service, scholarship, and athletics.

Noon-hour Presentation

By ROBERT BURCHETT

If your classes are starting to get rough, and you'd like to add some variety to those long hours over the books, you might check out the noon-hour lecture series sponsored by UMR's humanities, life sciences, and geology-geophysics departments.

The lectures are held in room G-4 of the library on Wednesday and Thursdays of each week, starting at 12 and lasting about one hour. They are presented on taped color television programs, followed by discussion led by Dr. Nord Gale, Dr. Gerald Rupert, and Dr. W. Nicholas Knight.

The Wednesday lecture series is entitled "Life and Man," and

is divided into three sections — human biology, ecology, and microbes and man.

On Thursdays the general topic is "Man and His Earth." This includes such diverse topics as the earth's origin, evolution, the ecology of various habitats, and the "Music of the American Highlands."

If it is possible to judge from one example, the quality of the lectures is excellent. In "The Restless Earth," presented on September 15, a large amount of information was integrated into an interesting and informative program.

The program covered the processes which are still shaping the crust of the earth, the methods by which these processes are examined, and the people who study them.

lecture schedule

Oct. 5, "Pasteur-Anthrax;" Oct. 12, "Pasteur and Rabies Vaccine;" Oct. 19, "Life of Semmelweis" — Pasteur's contemporary; Oct. 26, "A Community Called Earth;" Nov. 2, "Inside the Shark;" Nov. 9, "Wonderful Kangaroo" — narrated by Peter Ustinov; Nov. 16, "Eagle Come Home;" Nov. 30, "Death Trap;" — study of carnivorous plants narrated by Vincent Price; Dec. 7, "San Francisco Bay Ecology;" study of two estuaries, and Dec. 14, "Lure of the Dolphins."

Thursday noons —

Oct. 6, "Adaptations to Oceanic Environment;" Oct. 13, "San Francisco Bay Ecology;" Oct. 20, "The Everglades" (Part I); Oct. 27, "The Everglades" (Part II); Nov. 3, "What is Ecology?"; Nov. 10, "The Renewable Tree;" Nov. 17, "The Deciduous Forest;" Dec. 1, "The New Found Land;" Dec. 8, "Music of the American Highlands;" and Dec. 15, "Limit to Growth."

Missouri Miner Staff

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

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Articles and photos for publication in the MINER must be in by 9 p.m. on the Monday before printing on Thursday. Subscriptions are available to the general readership at a rate of \$3.00 per semester.

THE MISSOURI MINER
T-1
University of Missouri-Rolla
Rolla, MO 65401



Just as in high school days gone by, UMR students flock to get their yearbooks. The Rollamo has once again come out as a publication future alumni will be proud to keep. Is autographing still big?

(photo by Burford)

Rollamos Now Available

By ROBIN BECHTOLD

It's that time of year again for UMR students to enjoy looking back on memories, for the Rollamo is now being distributed. The yearbook can be picked up all this week from 9:30 a.m. to 4:30 p.m., in the Rollamo office, Room G-1 of the Rolla building. A valid UMR ID must be presented.

Each undergraduate student automatically pays a seven dollar fee for the yearbook, which is included in his fall semester bill. UMR graduate students must make special

arrangements to pay for theirs. A mailing list is composed of 1976 graduates who desire a Rollamo. Those on CO-OP this semester may pay for theirs in

the spring.

The Rollamo is looking for staff recruits for this year. Next year's editor is Russ Brazeal. If interested, now is a good time to become involved; those interested in editorship must have a year of Rollamo experience behind them. Congratulations to Glenn Johney, 1977 Editor of the Rollamo, and his staff for a great job!

Miner News

Industry Day Coming -Up

By MARILYN KOLBET

Approximately 60 Missouri industries will display projects and literature in the Missouri Industry Day program Tuesday, September 27.

Companies will set up their displays in individual booths in the Multi-Purpose Building. It will be open to the public from 10 a.m. to 5 p.m.

Some of the larger participating companies are McDonnell-Douglas Corporation, Caterpillar, the Bell System, Monsanto, Union Carbide, Union Electric, Farmland Industries, Black and Veatch, US Geological Survey, and Olin Corporation.

Missouri Industry Day is organized by the Placement Office, Chancellor's office, Development Office, and other departments.

Larry Nuss of the Placement Office explained, "Most companies use their booths as pictorial backgrounds of

company activities and literature."

Proctor and Gamble, he added, usually shows a sample of the many products they manufacture.

Perhaps the main purpose of the companies' displays is to show the employment opportunities they offer. Representatives will be on hand at the displays to answer questions.

UMR being a state university, there is an interest in promoting state commerce. That is why the displays are limited to those companies that operate in Missouri.

"Ten years ago we had our first Missouri Industry Day," states Nuss. "The idea was to point out to UMR students some of the job opportunities that they can find in Missouri."

Many of the participating companies will be giving away door prizes during the day.

Participation in the past has

run between 1500-2000 students and teachers. Nuss expects the crowd to be about the same size this year.

"We also send out notices to area high schools concerning Missouri Industry Day," Nuss commented.

Companies generally feel Missouri Industry Day is a success. Between 65 and 70 per cent have been participating in Missouri Industry Day for at least 5 years. About 20 per cent have been coming since it began.

All participating companies are given a questionnaire asking how they rated the success of the day, the participation, and their general feelings.

According to Nuss, so far most of the questionnaire returns have been good. The success of Missouri Industry Day is also indicated by the large number of returning companies.

UMR First Party Weekend
Starts Tomorrow...
So Start Celebrating Today!

To Give Blood Or Not To Give Blood

By ED LATIMER

Well, here you are again ready to give blood to the blood drive. It's a good thing to give blood to a needy cause, for sure, and freshmen should be urged to give, but what can you expect? Let me give you a typical case of Joe Miner giving blood for the drive, to prepare you in case you give blood.

Joe Miner, typical UMR freshman, walks up the Old Student Union and enters. He sees a vast sea of people waiting in line. Two typewriters are slowly pecking away at the front of the line. Joe asks,

"Excuse me, but I have a 1:00 appointment, and it's 1:00 now. Could I be taken next in line?" Twenty-two heads turn around simultaneously and snarl at Joe. One of them blurts back, "I had an 11:15 appointment, so cool it!"

A while later, Joe finally reaches the front of the line and gets his basic info sheet typed up. He then expects someone to run and jab a giant pint-sized syringe into him, draw blood, and he can get up and leave. Right?

Wrong.

Instead, he waits in another

line. After awhile, he gets to the front of this line. A mean looking Nurse (Miss Cratchet) snarls, "Gimme your card." Joe meekly obliges. "Have a seat," she mumbles. And before Joe has time to sit down, Nurse Cratchet (ex-auctioneer) rattles out, "Have you ever had polio, influenza, common cold, rubeola, cancer, mumps, measles, chicken pox, tuberculosis, gonorrhea, syphilis, tummy aches, goiter, kidney stones, hemophilia, warts, ache, rashes, leprosy, leukemia, sickle-cell anemia, smallpox, diphtheria, yellow fever, lock jaw, shingles, multiple

sclerosis, coronary failure, asthma, emphysema, cholera, jock itch, or hangnails?" (elapsed time: 4 seconds).

Joe Miner, however, is not caught off guard and replies, "No, no, once, no, no, yes, no, yes, no, no, I wish I did, several, no, no, no, twelve, haven't reach puberty, no, no, no, no, yes, no, no, no, no, no, no, no, no, once, and two."

"Have you taken any medication recently?"

"Yes, two weeks ago I took one aspirin."

"How?"

"In my mouth, how else?"

"Any other medications?"

"Yes, I snort cocaine."

"Is that all?"

"Why? Can you think of anything else to snort?"

"Don't get smart; just take this over to that table."

Joe is now wondering whether they are trying to sweat the blood out of him, but goes over to the table anyway. Soon, however, he is laid out on a table and the blood taken from his arm. Joe Miner rises from the table long enough to snarf down some free cookies and coke, and departs back onto the campus as good as new.

Bicentennial Lectures

SOURCE: OPI

A series of noon lectures, initiated during the bicentennial year, is continuing this fall at the University of Missouri-Rolla. Entitled "Missouri Arts and the Community," the series features free lectures by UMR faculty and guest experts once each week from Sept. 27 through Dec. 6.

The schedule is as follows: Sept. 27, Color video-tape "Music of the American Highlands," discussion leader, Dr. Nicholas Knight; Oct. 4, Dr. Douglas Wixson, "Eads Bridge;" Oct. 11, Bill McFarland, watercolor demonstration; Oct. 18, Dr. Tom Beveridge, "Ozark Landscapes;" Oct. 25, Dr. Michael Patrick, "Traditional Country Music Parties;" Nov. 2, (changed to Wednesday) Joel Kramme, "Magnificat," background on local production; Nov. 8, (tentative date) Jack Conroy, general discussion of his books and background; Nov. 15, Dr. David Summers, sculpture using water-jet cutting machine; Nov. 22, Al Steinbach, "German Heritage in Missouri;" Nov. 29, guest lecturer from U.S. Forestry Service, Dec. 6, guest lecturer from UMR's River Institute, "Mississippi River Flood Control."

Most of the lectures will be at noon on Tuesdays. They will be presented in UMR's Civil Engineering Auditorium.

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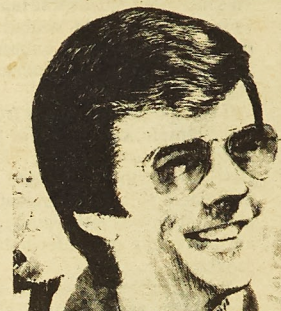
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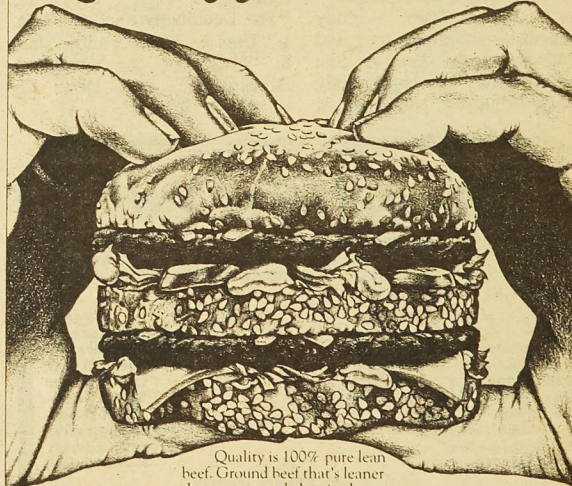
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PROCTOR AND GAMBLE PAPER PRODUCTS

(formerly Charmin)

Presents an informal smoker in the St. Pat's Ballroom on

Monday, September 26, 1977, at 4:30 p.m.

Recent UMR grads working for P & G at the Cape Girardeau, Mo. Plant will discuss career opportunities in Manufacturing Management.

Proctor and Gamble will also be in attendance at Missouri Industry Day on September 27, 1977, in the UMR gym.

This smoker is open to all UMR students. Those interested in Management are especially urged to attend.

You And Your Job IQ

SOURCE: OPI

What's your job IQ?

Here's a quick quiz to check it out.

1. This year's college graduates found the most job offers in what field?

- (a) Engineering
- (b) Science
- (c) Business
- (d) None of the above.

2. What field showed the greatest increase in job offers?

- (a) Engineering
- (b) Science
- (c) Business
- (d) None of the above.

3. Highest salaries were paid to graduates in:

- (a) Engineering
- (b) Science
- (c) Business
- (d) None of the above.

Now score yourself. Here are the answers:

1. (a) Engineering accounted for 55 per cent of all job offers to students graduating with bachelor's degrees.

2. (a) Engineering graduates received 53 per cent more offers this year than last. (Science was next with 37 per cent more offers).

3. (a) Engineering graduates received average starting salaries of \$1,283 per month.

(Petroleum engineering was the runaway leader in the salary field, with graduates receiving an average of \$1,512 per month. Chemical engineering was next at \$1,389, metallurgical and ceramic engineers were third at \$1,315. Science fields were next, with computer science leading that field with average starting salaries averaging \$1,127.)

These figures are from data on the national scene from the College Placement Council which conducts an annual salary survey of 160 colleges and universities. According to that survey, 1976-77 is the best year of the Seventies for job offers to new college graduates, and most recruiting by employers was in technical fields, particularly at the bachelor's level.

All this is hardly news at the University of Missouri-Rolla where more than 79 per cent of last year's graduates were in engineering and more than 14 per cent in science. "The employer demand for this year's crop of UMR graduates is the strongest since 1969," says L.R. Nuss, director of career development and placement. "The job market in technical fields has been relatively good even during the recession, but this year showed the most increase in recruiting on the UMR campus."

What was true for the country as a whole was even better at UMR. Rolla graduates received more offers at higher average starting salaries than was reported in the national survey, Nuss says.

In general, UMR's salary offers followed the same pattern as national, with petroleum engineers highest paid at \$1,519 per month. Chemical engineers were next at \$1,410. However, mining and geological engineering at UMR (not listed separately nationally) were ahead of metallurgical engineering with \$1,405, \$1,378 and \$1,367 average starting salaries respectively. Other

engineering disciplines averaged between \$1,143 and \$1,367. Science graduates received average starting salaries of between \$1,142 and \$1,200.

"Those fields currently offering the highest starting salaries are those with relatively few graduates and a high demand. However, the demand in electrical, mechanical and civil engineering, the fields in which a majority of our students major, remains consistent and equally strong," Nuss says. The demand for women and minority engineers and scientists remains high, Nuss reports, the salaries offered women equal or exceed those for men.

The placement director expects the current strong demand for UMR engineers and science graduates to continue well into

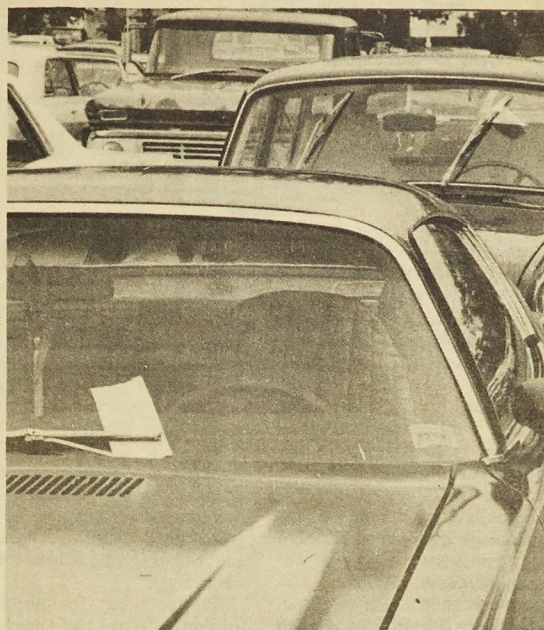
the foreseeable future. "As a technological institution, UMR is totally involved in the national energy crisis. This one field alone will generate future career opportunities for a vast majority of our graduates," he says.

Here's one more question on your career quiz:

4. What special talents are needed in engineering?

- (a) Interest and aptitude in math and science
- (b) Manual dexterity
- (c) Facility with languages
- (d) None of the above.

If you picked (a), you're right again. And high school students with 4 (a) — interest and aptitude in math and science, should consider 1 (a), engineering and look forward to a career with (2) continuing increase in jobs and (3) highest salaries.



When will they ever learn?

(Miner staff photo)

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Spotlight

.... on Dr. Edwards

By JOHANNA YUHAS

In just a fraction of a second, the lives of people on this planet experienced a permanent change.

In 1942, the world's first nuclear reactor went critical, ushering in a new age of unprecedented possibilities to improve the quality of life.

Since that day in 1942, nuclear technology has leaped forward in prominence and in accomplishments. Coupled with this increase in technology is an increase in the need for trained people to discover new ways to harness this power.

UMR recognized this need in 1958 with the creation of the nuclear engineering department in the School of Mines and Metallurgy. Since 1961, Dr. D. Ray Edwards has headed this department, graduating over two hundred UMR students.

For Dr. Edwards, Rolla and the UMR campus are a familiar sight. After Dr. Edwards received his B.S. Degree in chemical engineering from UMR, he became intrigued the relatively new field of nuclear engineering. "When I was an undergraduate, it was an area of interest to me. It appeared to me as one of the exciting new fields. Then, I was fortunate enough to get an Atomic Energy Fellowship to study it."

So, Dr. Edwards spent the next four years at MIT pursuing a master's degree and a doctorate in nuclear engineering.

Then, upon an invitation to return to UMR under the title of "Director of the Nuclear Reactor," he ended his four years absence from Rolla. "The only reason that I came back here after four years as a student at Rolla was that I was one of the few students who enjoyed Rolla when I was here," he interjected.

Since that time, Dr. Edwards has seen the department grow to its present enrollment of approximately eighty undergraduate students and fifteen graduate students. This may seem small in comparison to other UMR departments; but Dr. Edwards counters, "We're a small department, but for our discipline we are fairly large."

States a UMR color brochure, "a nuclear engineer is one who utilizes the energy sources within the nucleus of the atom — namely fission, fusion, and radioactive decay."

But Dr. Edwards is quick to insert, "That's a nice and neat definition, but when you get to a practicing engineer, things change. A nuclear engineer has

to have a very wide background. He has to understand elements of nuclear physics, heat transfer, material design and fluid flow and then put all these together."

"We use a lot of other department courses. Students compete across campus for their grades. We have one of the highest grade-point averages in the School of Mines and Metallurgy."

Disappointed in popular opinion about the nuclear engineering and the nuclear field in general, Dr. Edwards commented, "There is a lot of publicity. People who are hiring engineers are people who commissioned the design of a nuclear reactor ten to twelve years ago."

"Jobs are pretty well everywhere. Many of the utilities companies have very large nuclear engineering programs. So, job opportunities are geographically spread out, even more so than ten or fifteen years ago."

But work in a recruiting program with the UMR chapter of the American Society of Nuclear Engineers has led Dr. Edwards to observe, "High school students are very aware of what's going on. Most of them can see through public announcements and are quite interested in learning the rest of the story."

Student input is an important part of the nuclear engineering department. "Every four or five years we send out a questionnaire to all of our graduates asking what were the strong points, what were the weak points, and what suggestions they have for improvements. Interaction with the public is one of the more visible fields of nuclear engineering."

Definitely in direct contact with the public is one quite prominent man with a nuclear energy background. Observes Dr. Edwards, "President Jimmy Carter, a product of a naval nuclear program, has a rather interesting approach to nuclear engineering and nuclear power. He is saying to build more of the types of reactor that we already have and wait on research and development. I hope he's right because we can't wait much longer to develop new nuclear power systems."

"Contrary to popular belief, it is not easy to make a nuclear reactor. It is extremely difficult to get it designed, approved by the government, and proved workable."

"I feel that the current type of reactors will be the major type for the next thirty to fifty years then there will be a slow emergence of the breeder type of reactor. Ultimately, the power of fusion energy will be in commercial use. With this fusion power, we have almost an endless supply of energy. Indirectly coming from fusion of deuterium, commonly known as heavy water, the reserves are literally unimaginable."

In reference to possible nuclear dangers, Dr. Edwards explained, "The overall nuclear hazards are much less for a nuclear power plant than for a coal-fired power plant of the same size. There is a certain risk involved, but nuclear plants from the engineering standpoint are overdesigned."

For environmental readers, it seems that the environment does not suffer as much damage with use of nuclear power. According to Dr. Edwards, "when you start looking for a place to build a power plant, the one thing that you don't have to worry about is meeting air quality standards."

In addition, Dr. Edwards sees nuclear power as an eventual savings to the average American. "It costs ten to twenty per cent more to build a nuclear power plant than a coal plant, but after it is built, the fuel cost is approximately one-half that of a coal plant. It costs more to build a nuclear plant but less to operate it."

But Dr. Edwards stresses, "I don't think that there is anyone energy source that is the answer. We are going to have to require several energy sources to survive. I don't consider coal as a competitor. Most likely, companies find it to their advantage to have both. The energy problem is such that we need both. They complement each other."

About the upcoming UMR energy conference, Dr. Edwards advises, "The student should take every opportunity to attend the session. There are several very well known speakers coming in, so it is a good chance for students to get some of the very latest information."

For the interested reader, the energy conference includes at least one or two sessions devoted to nuclear energy.

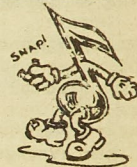
Nuclear energy promises to play a big role in the future. In the words of Dr. D. Ray Edwards, "some form of nuclear energy is going to be with us virtually forever."



Dr. Edwards of the Nuclear Engineering department, at his desk.

(photo by H. Burford)

Groundwaves



Groundwaves in a jiffy, squared. I just finished the other column and I'm about to be dragged away from the typewriter, so here goes.

This is a shortie to illustrate what we are really doing about Flipped and Alfredo for the next week:

Alfredo for next Wednesday, Sept. 28 at 8 p.m. will feature Chick Corea in his post-Miles Davis period. Selections from his Return to Forever collaborations, and solo albums both will be presented.

Flipped for Sept. 22, Thursday is the new Rush LP, "A Farewell to Kings."

For Sept. 27, Flipped presents a brand new copy of Pink Floyd's, "Dark Side of the Moon."

On Thursday, Sept. 29, Steve Winwood's new release on Island, "Steve Winwood" will grace your speakers and your ears.

The Sound Trap has agreed to grant us these fine albums that we don't already have, in order that you may enjoy more of the fine music that you already have come to expect from KMNR. This practice will continue in the future, so look for more goodies from the Sound Trap on Flipped and Alfredo, both.

By for now, I'll have a longer effort next week, when I have more than five minutes to write it.

Love those toonz.

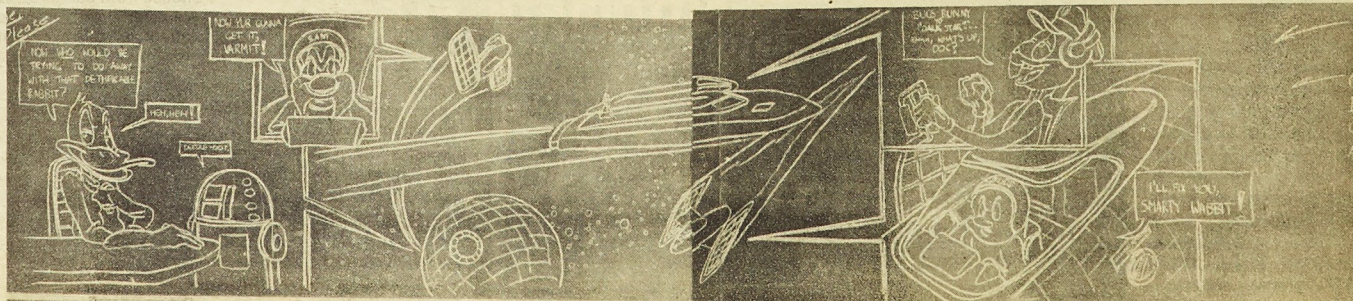
Ward Silver, Disc Junkie

Russell's Town & College

713 Pine Street

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Rolla, Mo. 65401



(photo by Burford)

Ediletters

STATEMENT OF POLICY

The opinions expressed herein do not necessarily represent the opinions or policies of the Missouri Miner. The ediletters section is the sanctuary of the general public. All letters submitted will, as in the past, printed in the unaltered and original form when space in this newspaper permits.

Basketball Babysitters

Dear Editor:

Well, well. Basketball ambassadors! What'll they think of next? I suppose we'll have football ambassadors and swimming ambassadors and even baseball and wrestling ambassadors. Shoot, before you know it we'll be in the Big 8! That is, if any females will degrade themselves enough to fill the bill. Talk about sexist! and it's misleading, too. The poor high school bozos will think they'll get themselves a woman right away, guaranteed, when they come to school down here, when everyone knows there aren't enough women to go around as it is.

Well, girls, don't trip over each other signing up. Personally, I think I'd get bored babysitting old men and little boys.

Hey, Coach Dinsdale, why don't you just go over around Fort Wood and pick up 12 shady ladies? You'd get the same results, and maybe they'll even give you a group rate.

Sincerely,

Phyllis T. Lanza

All questions regarding this matter should be directed, if they have not done so, to Coach Dinsdale at the Multi-Purpose Building.

— Editor

StuCo Ripoff?

Dear Sirs,

I am writing in regard to a problem that I think has gone on for too long. That problem is the Student Council, or more specifically their spending of money on themselves. For the three years I have been a student at U.M.R. this organization has appropriated itself money without much discretion. The area I'm going to write of, is one that the students themselves can help correct.

For several years now the Student Council has bought themselves jackets with the money the council receives from OUR fees. This year they are planning to do the same, despite the efforts of Steve Vrazalich, a representative who tried to stop this gross expenditure.

On September 13, 1977 the Student Council met for their bi-weekly meeting. At the meeting, Steve introduced a motion to "not spend Student Council money for these jackets", then S.C. President Mike Johnson called for a second. The motion would have died right there if Sam Enns hadn't seconded just before the motion was about to be thrown out. Then Steve went into the reasons why he thought the motion was necessary. He brought out the fact that the

S.C. already buys itself a recognition dinner, plaques, and shingles for the officers and reps, respectively, a salary to the S.C. President of approximately \$600 and jackets for the reps, which cost approximately \$15 for a total expenditure on jackets alone of over \$500. Several reps defended the expenditure by saying 1) S.C. works hard, 2) S.C. need the publicity, 3) it is a token expenditure, and 4) they used to buy \$50 jackets. Steve's discussion was cut short by a representative who called the question. Thus the S.C. effectively used Roberts Rule of Order to stop the opposing view. So now I shall bring to the students what the Student Council refused to hear.

I would like to remark on the defenses of the Student Council. On Defense 1) "S.C. works hard...", so do other campus wide student volunteer organizations that use student fees but these groups do not feel the need to use our fees for clothing. Defense 2) "S.C. needs the publicity...", don't you believe it would be better for an organization's actions be their publicity. Should you still demand jackets? If you still want jackets, why not let the reps. buy their own jackets and have S.C. buy the patches for the jackets (this would bring about a savings of approximately \$13 per jacket or a total savings of about \$460.) Defense 3) "a token expenditure...", when the hell did \$500 become a "token." Defense 4) "we used to buy \$50

(cont. on p. 8)

F. O. and D.

Well, F.O.D. has survived to be seen for the second week, if only to succumb to the sophomore jinx. I'm about to succumb to exhaustion of the gray matter, so I'm in top form for writing.

What is a review? Well, Webster's says that it's to examine critically, and that a reviewer is one who does so. I think it's an excuse to be nasty, judging from modern journals of this and that. Not that I'm any better, mind you. I do think that it's important to have some outlet for the way events around you affect your cognitive processes, whether it be railing and bitching or exaltation.

For starters, I'd like to take a whack at the most useless activity of the week, namely naming buildings. As the Miner printed last week, the wise and noble of UMR have decided to name the CE Building after some of the past illustriousities of that marvelous department which inhabits the tunnels and burrows of the aforementioned construction. I don't know one single person who is going to change his or her habit of referring to the CE building as the CE building. Wasteful and ludicrous. I believe, although the possibility exists of error, that there are better things to spend money on than naming buildings everyone is already familiar (too) with. Ptui, I spit.

Kudos department: Well, I suppose I can devote double space to positive endeavors this week and review both a record and a movie, both.

For starters, I went to see "Wizards" at the Ritz last Friday night, and came away with an overall plus impression.

Although the behavior of the crowd was abysmal, as is most behavior by Miner crowds, the film was good enough to make me rise above the baser activities of the near vicinity. A note to those who engaged in manners more suitable of near-cretins; you are not the only ones in the theater, and have no reason to assume that the other folks who wish to view the presented selection do not mind the brutish, and sometimes moronic actions you indulged in. Contrary to popular opinion, civilization does exist in Rolla, and there are those who choose to appreciate it. Man, I thought this was going to be a nice review...

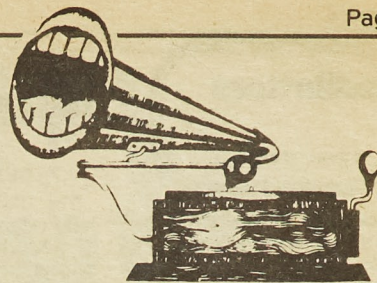
Anyway, "Wizards" was extremely well animated, and provided the attentive watcher with a continuous display of colorful pyro-technics unavailable in all but the best. Visions and powerful imagery provided an ongoing assault on the senses sufficient for the least imaginative. The plot left something to be desired, being simply a story line of the best-selling fantasy novel, "The Hobbit," set to a WWII moral, but the quality of the film, overall, more than offset the annoyance of intermittent preaching. Go see it, next chance you get.

Next review. I said I'd review an album, and so I am. I was most impressed with the new

Jean-Luc Ponty LP Enigmatic Voyage, just recently released on Atlantic. It features, other than Jean-Luc, Allan Zavod, ex-keyboard man for Maynard Ferguson. I saw Allan in concert with Maynard about three years ago, and he easily outstripped most of the band members with his contemporary-style improvisations reminiscent of Chick Corea. Allan complements the style of Jean-Luc very well, blending, in fact, to the point where the two became hard to tell apart in their solos. Perhaps a bit less electronic processing of the violin, and leaving the twiddling to the synthesizer would present the counterpoint between accoustic and electric more effectively, and even leave more room for the call-and-response presented in the album.

The overall theme of the album is that of fusion between classical, jazz rhythms and rock energy. Most impressive. The band is tight, the energy is there, and the growth of Jean-Luc is right in line, musically, with his ongoing line of past efforts. What more can I say? I liked it.

Well, I've got to run, once again. Hope you enjoy the Starcastle concert this Saturday, and party it up for the first party weekend of the year. I'll do my part, be sure. At any rate, enjoy.



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(cont. from p. 7)

jackets..." So what! The heart of the matter is why should we (the students) buy anyone a jacket at ANY cost?

In closing I would like to remind the students that their money will go to buy S.C. jackets unless YOU do something. The next Student Council meeting is September 27, before then why not talk to your rep. and let him know what you think, or write a letter to the S.C., the Miner or both. Whatever you decide, have your Student Council Representative represent YOU.

Sincerely,

E.W. Lillie II 38338

Chester Sanden 43100
David Combs 41760
Carl Tarauth 38777
Patti Kamler 45391
Debra Budd 37885
Pat Highfield 38720
William Berg 35344
Sam Dentow III 37602
Arthur Wilkins 36359
John L. Corbett 47008
Mike Koclanes 38272
George E. Reynolds 34101
Jack Puppinger 38541
Susan Ray 38570
Mark Madrasq 38370
Mary J. Busbee 37866
Michael J. Tansey 42822
Dale F. Miller 38429
Warren Hertfelder 35698
Rob Heritage 46150
Larry Van Noutter 36297
Donald E. McGowan 48327
Lee Cadwallader 49226
Dennis DeBondt 41810
Donald Gunther 45240
Chick Lucas 51055
Jim Colliton 37952
Ken Rice 38583
Robert Elwood 49429
Stan Heimburger 42051
Louis Greer 41995
Ivan Engeman 38042
Don Walther 38825
Chris Schroeder 43077
Robin Stege 42778

Music on the Mall

By DEBBIE MEISTER

The UMR mall came alive last Friday night, September 16, at 6:00 with the "pickin' and grinnin'" of bluegrass and old time string musicians. Parents' arriving on Friday of Parents' Weekend were able to set their feet tapping and hands clapping to the down home sounds of banjos and fiddles. Dr. Michael Patrick, from the UMR Department of Humanities and Social Sciences organized the free mini-music festival as a "kick-off for Parents' Weekend, so that people could see the background of the area UMR is located in, and also for the Rolla community to come and have a pleasant evening on the university campus."

Parents, students, faculty members and other visitors to the campus listened to bluegrass music performed live from the hockey puck by Don Thompson and The Country Express. The played such favorites as "Orange Blossom Special" and "Banjo Signal." Don Thompson and The Country Express is a local Rolla group

that "plays wherever there's a gatherin'," one picker admits.

At the other end of the mall, the audience watched as four couples from Gene Count's Dancers linked arms, clicked their heels and toes, and swung their partners around the dance floor to the old time string music of the Red Ferris Group. "This is just called ol' time square dancin'," commented one of the dancers.

The Red Ferris Group fiddled and sang such tunes as "Walking the Floor Over You," "Beaumont Rag," and "Mable's Prayer." The music of The Red Ferris Groups is called "old time string music because the fiddle is the dominant instrument," whereas in The Country Express' "bluegrass music the banjo is dominant," Dr. Patrick explains.

Whether this distinction between the types of music was realized by the estimated crowd of over 200 people, or not, it was apparent that they fully appreciated and enjoyed the sounds of the Ozark music.

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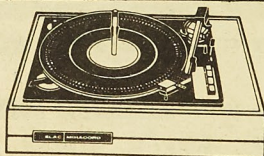
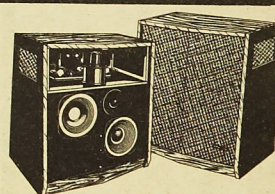
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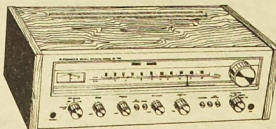
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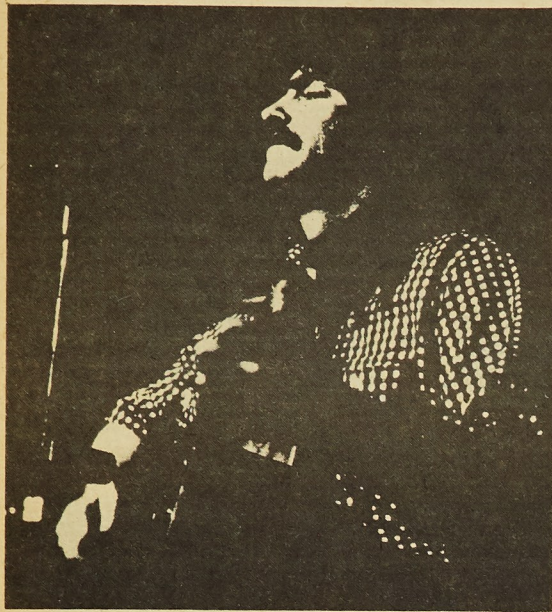
"Go ahead and ask us"

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Classified Ads

Missing — Kathy's "Virtue" Sign. Phone information to 364-9947. Few questions asked. Ask for the Watashi Bros.

Wanted: One young lady to help young man celebrate his 21st birthday. Dinner and entertainment will be gladly provided. If interested please call 341-4990 and ask for Room 307.



Arne Bray, noted guitarist and singer will appear this Friday in the St. Pat's Ballroom at 8 p.m. In his own words, he describes his performance as:

"Sometimes serious,
Sometimes hilarious,
Sometimes in poor taste."

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Local Notes

By LINDA PONZER

The following notes were all taken from past issues of the Rolla Daily News on the dates mentioned. This column is intended to keep the UMR student up to date on what's going on in the area.

Aug. 28

Local Mark Twain Forest Fighters called into help fight forest fire in the Bug Sur area. Sept. 7

Premier Automotives located at 18th St. and Frisco to close Rolla branch and liquidate all merchandise at cost sometime in October. Sept. 9

Former City Records Clerk-Nikki Mowry, who was fired after being charged with insubordination lost her bid to appeal that conviction. Sept. 11

Local Professor Bob Oakes to star in his son-Jordan's play. "The Chicken Soup Spy". a comedy was premiered in Rolla at the Lion's Den for \$7, which included a prime rib dinner. Sept. 13

Missouri's Junior Miss Sara Viesman, a Rolla girl, helped save the lives of two crippled girls during recent flooding in Kansas City.

Police officer-Wayne Rapiet who was dismissed from the Rolla police force was given a lighter punishment. He instead has been handed a 30-day suspension by the Rolla Police Merit Board.



Kiss a Toad

if that doesn't work...

By KAREN DOWNER

On a full moon, underneath the tenth rock from the Computer Science building, you will find a small, shrivelled toad. Kiss it 3 times and your true love will appear. Now you have a date for this weekend. If this method is unsuccessful, one should resort to more conventional methods. But you'd better hurry, the partying starts in 24 hours.

Your first tool is the telephone. Peruse the bathroom walls for likely numbers. You could even hire someone to inscribe your number over the sink. If you're easily tongue-tied, you should compose a script before you dial.

You could try Mizzou, Cape, or SMS Import Service, if you need professional help. UMR is one of the best clients for party weekend dates - male or female. Your only obligation is a room at Howard Johnsons'.

To arouse curiosity, try an anonymous letter, outlining a rendezvous. Be vague and romantically descriptive. "Dinner by candlelight" sounds more appealing than a booth at Pizza Hut. Also the element of surprise can be on your side.

If no one surfaces by dark, you'll have to check out the Thursday night life. When you go to a disco, wear phosphorescent clothes so everyone will notice you. Guys can usually be found around the foosball table; girls on the outskirts of the dance floor. Calm yourself with a few drinks, then set out on your quest. The Thursday night atmosphere is perfect for meeting people and you'll not be sorry you ventured out.

But don't despair if you are dateless for party weekend. You can count on many others being in the same boat. And who knows? Maybe by the end of the weekend, you will have discovered that "toad" to kiss.

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Hungry Lions Devour Miners, 43-9

By BILL FRANK

The Miners suffered an embarrassing 43-9 defeat at the hands of the Lions of Missouri Southern College Saturday. Once again it was the third quarter that spelled doom for the Miner's hopes as Southern scored twenty-two unanswered points to put the game out of reach. Terry Ryan had another 100-yard game, though, and Andy Cox caught eleven passes for 199 yards to keep him at the top of all receivers in the conference. Kenny Vaughn also had a respectable game completing 19 of 38 attempts for 288 yards in a losing effort.

The game began on a sour note as Ryan fumbled after only a minute and a half into the game and the Lions recovered on the Miner 24 yard line. It only took a minute and a half and seven plays for Southern to capitalize as senior quarterback Rusty Shelley pushed it over from the one. The PAT was good and the Lions jumped in front, seven to nothing.

After an exchange of punts, the Miners mounted a drive and evened the contest at the 4:47 mark on a 24 yard pass to Andy Cox. Tom Rosenauer converted the extra point to make it seven-all.

On their next possession, Don Renner, senior defensive back from Mehlville, Mo., picked off a Shelley pass and returned it to the Miner 34 yard line. Two plays later, Vaughn was under pressure in the pocket, fumbled after losing ten yards and the Lions recovered. It only took three plays this time to score, and at the 1:09 mark Shelley hit Fetherson for twenty-seven yards and the TD.

In the second quarter the two teams traded punts again, but the Miners got a big break at the 7:08 mark as the center hiked the ball over the Missouri Southern's punter's head and he kicked it out the back of his own end zone in an incredibly silly play. That gave the Miners two points for the safety and the Lions had to punt from their own ten yard line.

UMR took over at the Southern 48 yard line, and Vaughn immediately hit Dave Hall for 22 yards. The Miners could go no farther, though, and

Rosenauer missed a 38 yard field goal attempt.

Vaughn was intercepted once more towards the end of the half, but Southern could not threaten. At the half it was Missouri Southern 14, Miners 9, and it seemed as if UMR was in the game. Andy Cox already had 155 yards in seven receptions, but the running game for Rolla was going nowhere as they netted a negative eight yards in the first half, principally due to the yardage lost on quarterback sacks. The Miners drew zero penalties in the half, but Southern drew three for 45 yards.

It didn't take long for the Miners to blow the game in the third quarter. After taking the kickoff back to the Southern 25 yard line, Vaughn was sacked again and fumbled. Two plays later Barnes ran for fifty-four yards to set up a TD. Barnes scored two touchdowns on his own in the third quarter as Southern chalked up 22 points to take an overwhelming lead, 36-9. The Lions also picked up a safety as Fuqua fumbled at the 8:53 mark.

The fourth quarter was uneventful as the Miners threatened once, but the drive stalled on the Southern 16. The Lions did increase their lead as Barnes caught a 21 yard pass for a TD.

Hopefully, the Miners will be able to shake off this humiliation and get ready for Kansas State at Pittsburgh, Kansas this Saturday in Pittsburgh at 8:00 p.m. The Miners have a career record of 8-20-3 in contests with Pittsburgh.

Ron Randleman, starting his second season at the helm of the Kansas State-Pittsburgh Gorilla squad, is quick to point out that his team lacks experience. "We are going to have to improve every week; which we have the potential to do," Randleman says.

Offensively the Gorillas look to be improved with more experience at quarterback and a much improved offensive line. Both Mark Hittner and Bob Plagge saw extensive action last season and will be handling the quarterback duties again this season. Transfers Steve Blue and Brian Byers help shore up the offensive line.



Andy Cox is all alone as he pulls in one of his eleven receptions Saturday. He caught 11 passes for 199 yards

(photo by H. Burford)

The Gorillas were the top defensive team in the Central State Inter-collegiate Conference last season but must fill several holes vacated by graduation. Defensive tackles, Tim James and Brian McDougal return from last year to strengthen Pitt State up the middle.

The Mienrs start Conference action on October 8 against Lincoln College in Jefferson City, MO.

TOP RUSHERS: Barnes (Southern) 116 and Ryan (UMR) 103.

TOP RECEIVERS: Cox (UMR) 199 and Richman (Southern) 60.

	Southern	UMR
First Downs	20	22
Rushing yards (net)	199	17
Passing yards (net)	167	289
Total offense	366	306
Interceptions	2	1
Punts	4-179	3-118
Penalties	5-65	2-14
Fumbles lost	0	4
SCORE BY PERIODS:		
Southern	14	0 22 7-43
UMR	7	2 0 0-9

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Freshman Sets Record

See How They Run

To date the University of Missouri Rolla Cross Country team has participated in four dual meets and one quadrangle meet. For those of you who don't know a Cross Country meet is a one race event. The one race being 5 miles long. Scoring is based upon the places taken by each individual runner with the team's score being the sum of the places of each teams first five runners, so naturally low score wins for example if Team A's runners finish 1,2,7,8, and 10 they have a team score of 28; and if Team B's runners finish 3,4,5,6, and 9 they will have a team score of 27. So Team B is the winner. This may seem pretty simple but there is one more problem and they are pushers. A pusher is someone who finishes lower than fifth for his team but ahead of another teams fifth man. He thus pushes

the other teams men or man back one more place, which of course adds to their score. The idea of a pusher isn't very critical in a small dual meet but it can mean the difference between first and second in a bigger meet.

So far in dual meets the Miners are 2-2. In their first meet of the year the Miners were shutout by St. Louis University 15-46. A shutout is where one team takes the first five places. However, the Miners bounced back to squeeze by the School of the Ozarks 28-31 and to trounce Lincoln University 21-38. In their last meet the Miners ran into a tough Central Mo. team and lost 17-46. In this meet freshman Brent Haefner, the Miners top runner thus far, set a new school freshman record with a time of 26:26.

In their first big meet of the year the Miners finished second out of four teams. St. Louis University finished first, UMR second, School of the Ozarks third and Lincoln University lost. The Miner runners participating in the race were Brent Haefner, with a time of 26:32, 10th, Mike Ackerson, last years Intramural Cross Country winner, 11th, Brian Bowen 12th, Dave Sorrel 13th, freshman Glen Heeter 18th, Bob Bellora 21, Craig Bowen 23, Dave McClintock 25, and Larry Fowler 29. Marty Hoffman a transfer from Northwest Mo. State was injured and didn't participate in the meet.

Coach Dewey Allgood says that this years' team is the best ever time wise. So come out and support the running Miners. Their next home meet is Oct. 29 against Southwest.



See how they run. UMR cross-country runners in this picture include (l to r) Brian Bowen, Mike Ackerson, Dave Sorrel, and Craig Bowen.

(photo by H. Burford)

Polo Team Splashes to Victory

The Miner's Water Polo team dominated their first home meet, decisively winning the two games they played. The Miners demolished Washington University 16-6 in their morning game, as the combination of team play and swimming ability overwhelmed the strong-armed Bears.

SEMO met Rolla in the final game of the day and stayed close to the Miners in the first half, trailing 3-1. The Miners pounded the

SEMO goalie in the third quarter and went on to win 10-4. The chances of the Mississippi Valley Conference title coming to Rolla look excellent since the visiting teams were conference foes and the Miners disposed of them so handily. This weekend

UMR travels to SIU-Carbondale to compete in a tournament with Iowa, Kentucky and Loyolla, some of the most powerful teams in the Midwest, as well as SIU-C, Principia and other Mississippi Conference opponents.

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Girls Volleyball — Excitement, Action

By MAUREEN MURPHY

Well our first home volleyball game is past history. Even though there were a lot of empty bleachers on our side, there were even less people on the other side cheering for the out-of-town team, Mineral Area Junior College.

In fact, it was really an exciting first game. Although we lost in four games our team put up a good fight. We won the first game 17 to 15, lost the second game 0-15, narrowing the point margin we lost the third game by only 6 points with a score of 9-15. The final game was a close 12-15 giving the victory to Mineral Area Junior College. We play this same team again at an away game on the 19th of September in Flat River, Mo. We hope to turn the tables and bring home a victory.

Our three away games show an improvement on UMR's volleyball game record. We lost our bout in Branson. Against School of the Ozarks, in four games. But, in a tri-meet in Bolivar, Mo., we defeated both of the two other teams.

The first team we played was Southwest Baptist College. We won the first game, lost the second, and won the third giving us the victory.

The second team we played was Evangel, from Springfield, Mo. We won the first two games making it unnecessary to play the third.

Coach Caruso was very proud of her team as they came out as strong winners in both games.

This week we again have two away games and only one home game. Monday, September 19, we play Mineral Area Junior College in Flat River, Mo. Saturday, September 27, we come up against William Woods College, in Fulton, Mo.

This weeks home game is on Wednesday, September 21. We play Meremac Community College (known to some as M.I.T.). It will be played at 7:00 p.m. in the gymnasium.

Any students from St. Louis, or thereabouts, should be anxious to see how your home-city team compares to Coach Caruso's team.

We would be more than happy to see you there. We don't even care whose side you sit on (just so long as you're cheering for the UMR co-eds.)

It's that time and intramurals are starting. We urge each and every girl to participate in one or more of the sports. There is quite a variety of sports to choose from.

Even if you did not participate in any sports in high school you still have a chance to prove that you don't have two left feet (or left hands). Not everyone can be a star and the majority of girls are playing just to have fun.

If you choose not to play, certainly there is a girlfriend who would appreciate your cheers and yells at their teams games. After all most of us will never be on television, but everyone likes to see their efforts appreciated.

Tennis will be played out on our newly refinished UMR courts. Bring your favorite beverage if you like or throw a "before the tennis match" party. The first matches will be played Tuesday, September 27.

Womens intramurals are fun to watch! Ladies from everywhere are participating. Dormies, little sisters, sorority girls, independants, just about everyone has a team they can join. Every girl can participate. So ladies, get out there and prove yourselves!

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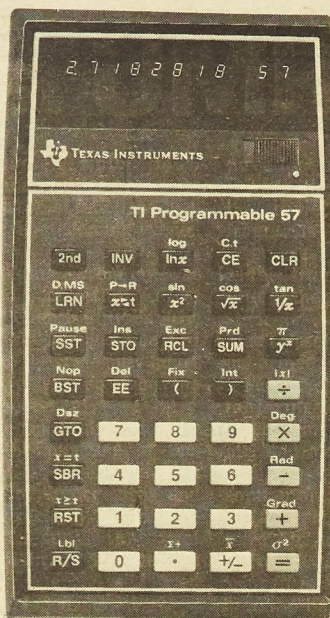
UMR Coeds

UMR Coeds are being invited to apply for the twelve positions open for UMR Basketball Ambassadors. Applications can be picked up from Coach Dinsdale in the Athletic Department, 341-4175.

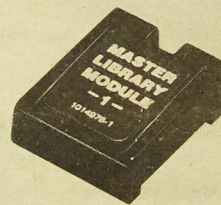
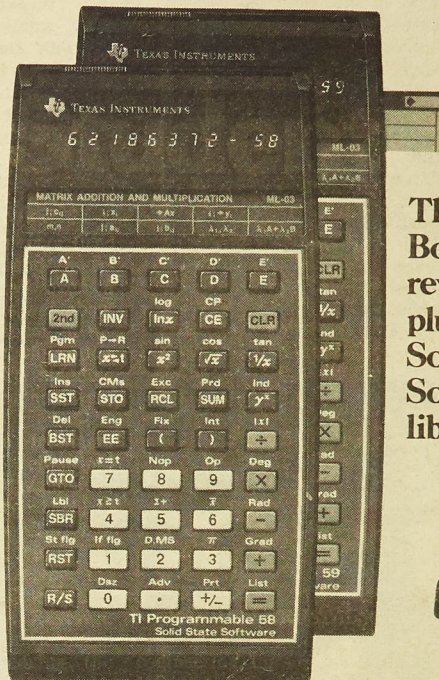
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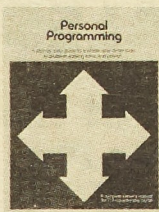


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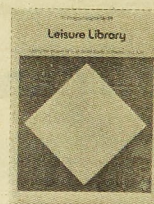
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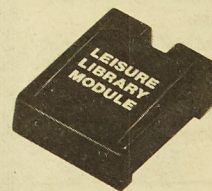
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