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The Missouri Miner, October 06, 1977

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The Missouri Miner

Official Publication of the Students of the

University of Missouri at Rolla



Thursday, October 6, 1977

Volume 64, Number 7

12 Pages

Energy Conference Preview

By MARK KASLETT

The fourth annual University of Missouri-Rolla-Missouri Department of Natural Resources Conference on Energy will be held here next Tuesday, Wednesday, and Thursday the 11th, 12th, and 13th of October. The theme of this year's energy conference is "Energy Crisis — Where do we go from here." Guest speakers will include Rear Admiral William A. Myers, III, USN, Director for Energy — Office of the Assistant Secretary of Defense; the Honorable Richard T. Kennedy, Commissioner, U.S. Nuclear Regulatory Commission; and Lt. Governor William C. Phelps. Topics of papers presented will be centered around the general theme of the conference. Papers will deal with the various ways that the scientific, political, social, and institutional forces may tackle the energy problem, and their probable results.

Last year's conference drew some 600 participants — 300 participants locally. People from 34 states, Puerto Rico, Canada, and Mexico attended the 3rd annual Conference last year. Dr. J. Derald Morgan, Conference Director, expects at least as good a turnout this year.

This year's conference should prove to be very interesting, with some 96 research papers to be discussed. Topics will include Solar Energy, Economics of Regulation, Nuclear Energy and Power, Bioconversion, and Energy Conservation.

As the Energy Crisis continues, it becomes increasingly important to provide scientists, businessmen, politicians, and the public with a forum for exchanging opinions and new ideas. Ways must be found to deal with the crisis in the immediate future, and such a conference fills a vital need.

Participants of last year's UMR-MEC Conference on Energy issued a statement to all Missouri legislators and members of the United States Congress. In effect, the Position Paper stated that immediate government deregulation of all energy is our best hope of having an orderly transition to new forms of energy and new consumption levels.

Students are encouraged to attend; there is no charge for the conference, but small charges are made for attending a luncheon or purchasing material on the conference. Of particular interests to students will be a performance of a pantomime groups known as the Covenant Players. The St. Louis based group will do a satire on

the current energy situation on Tuesday, October 11, at 8:00 p.m. in the Mechanical Engineering building auditorium. Everyone is invited

to attend.

All persons wishing to attend are asked to register in the Miner Lounge, University

Center East. The badge received will be used to determine the number of participants taking part in the three day long conference.

Sessions At A Glance

TUESDAY

8:45 a.m.-10:00 a.m.

General Session-Commissioner Richard T. Kennedy
Room 104, Mechanical Engineering Building

10:00 a.m.-12:00 noon

1a. Energy Conservation in Specific Industries - Centennial Hall East, University Center East

1b. Solar Energy I - Room 104, Mechanical Engineering

1c. Chemical Energy - Centennial Hall West, University Center East

1d. Environmental Aspects of Energy - Mark Twain Room, University Center East

1e. Economics of Regulation - Room 213-214, University Center West

12:15 p.m.-Luncheon - Ms. Carolyn Ashford, Director, Department of Natural Resources, St. Pat's Ballroom, University Center West

2:00 p.m.-5:00 p.m.

2a. Energy in Transportation - Mark Twain Room, University Center East

2b. Industrial Energy Management - Centennial Hall East, University Center East

2c. Solar Energy II - Room 104, Mechanical Engineering

2d. Bioconversion - Centennial Hall West, University Center East

2e. International Energy Economics - Meramec Room, University Center East

8:00 ME Aud. Covenant Players on Energy

WEDNESDAY

10:00 a.m.-12:00 noon

3a. Nuclear Energy & Power - Centennial Hall West, University Center East

3b. Consumer Energy Management - Centennial Hall East, University Center East

3c. Energy Conservation - Room 104, Mechanical Engineering

3d. Energy Regulation - Mark Twain Room - University Center East

3e. Energy-Environment Simulator Workshop - Meramec Room, University Center East

12:15 p.m. - Luncheon - Rear Admiral William A. Myers, III,

USN Director for Energy - Office of the Assistant Secretary of Defense, St. Pat's Ballroom, University Center West

2:00 p.m. - 5:00 p.m.

4a. Energy Usage in Building Systems I - Room 104 Mechanical Engineering

4b. Energy Resources - Centennial Hall West, University Center East

4c. Political & Social Implications of Energy I - Mark Twain Room, University Center East

4d. Energy Economics Pricing Strategies - Centennial Hall East, University Center East

4e. Energy Crisis - The Role of Government - Room G5, Humanities Social Sciences Building

4f. Energy-Environment Simulator Workshop - Meramec Room, University Center East

6:50 p.m.-7:50 p.m. - Social Hour - Chancellor's Residence

8:00 p.m. - Banquet - Centennial Hall, University Center East

Speaker: Lt. Governor William C. Phelps
State of Missouri

THURSDAY

9:00 a.m.-12:00 noon

5a. Energy Usage in Building Systems II - Room 104 Mechanical Engineering

5b. Solar & Wind - Centennial Hall West, University Center East

5c. Political & Social Implications of Energy II - Mark Twain Room, University Center East

5d. Economics, Agriculture and Energy - Centennial Hall East, University Center East

5e. Energy-Environment Simulator Workshop - Meramec Room, University Center East



The Michael Stanley Band will make its UMR debut Saturday, October 15, of homecoming weekend. The band has been together since 1974 and has several albums to its credit. For more information on MSB and where to buy tickets, turn to page 4.

Special Thanks

A special thanks is given to all those students who took the time to give blood at the First UMR Blood Drive. 535 usable pints of blood were collected which will be used in many ways to help those in need.

This year the winner of the participation trophy is Pikers with 81 per cent of their house donating. Second Theta Xi with 44 per cent and third was Sig Ep with 40 per cent.

Students receiving 1 gallon pins were Stephen Todd, Lee

Ann Richardson, Arthur Giesler, Michael Stock, Ted Beresik, Edward Burford, Douglas Rickman, John Midendorf, Stephen Lang, Robert Jobes, Robert Boone, Russell Dahmer, Steve Earnest, and David Dillard. Paul Kriegshauser received his 2 gallon pin.

Again on behalf of the Red Cross and the UMR Student Council thanks those who took time to work at the blood drive or give blood.

Homecoming '77 Preview

Page 3 - Queen Semifinalists

Page 3 - Schedule of Events

Page 4 - Michael Stanley Band

In Concert

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, October 6, 1977

Page 2

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.

CHI EPSILON SCHOLARSHIP
Applications for the Chi Epsilon Scholarship are now available in Room 111 of the Civil Engineering building. All juniors and seniors with a grade point average of 3.5 or above are eligible to apply. Deadline for return of applications is Wednesday, October 26.

PIE EATING CONTEST
The annual pie-eating contest sponsored by Kappa Kappa Psi and Tau Beta Sigma will be held on October 15 preceding the pajama race. It will be part of the pregame activities for the Homecoming football game against Central Missouri State.

Applications are available in the Music Office in the basement of Harris Hall. Organizations, get your entry in now. A trophy will be awarded the winner.

HOME COMING BUTTONS ON SALE
The homecoming buttons have arrived and are now on sale for 50 cents from your friendly M-Club salesmen. This year M-Club will award extra 12th Man Award points to the organization who buys the most buttons (percentage wise), so make sure you identify yourself to the M-Club member who sells you the button.

M-CLUB
M-Club will have a meeting tonight, October 6, at 7:00 in room 127 M.E. All new pledges are invited to attend. Refreshment will be served.

MINER BULLBOARD
Jamz Dutton and his Percussion Arts Orchestra, the eclectic new marimba group of eight musicians who play nearly 100 different instruments, will appear in Centennial Hall October 18, Tuesday night, at 8:00 p.m. Their appearance is one of the Student Union Board's excellent fine arts programs for the '76-'77 school year. Any UMR student with a valid UMR I.D. will be admitted free of charge.

Three Days of the Condor will be the Student Union Board's featured movie this Sunday, October 9, at 4:00 and 6:30 p.m. in Centennial Hall. An admission charge of 50 cents will be payable at the door. A valid UMR I.D. must be presented for admittance.

IK
There will be a meeting of the Intercollegiate Knights on Thursday October 6, 1977 at 7:00 p.m. in the Mark Twain Room.

AICHE
The next AICHE meeting will be on Oct. 12, 1977 in Room G-6 of the Chemistry building at 7:00 p.m. The guest speaker will be Mr. J.M. Randolph of Texas Eastman Company. He will speak on Chemical Operations. Memberships and refreshments will be available after the meeting.

OPEN HOUSE
All students in any engineering discipline are cordially invited to an Open House sponsored by the Brown and Root Construction Co. of Dallas, Texas. The Open House will be held in St. Pats Ballroom on Monday, October 10 starting at 7:00 p.m. Refreshments will be served and students at any class level are welcome to attend.

DELINQUENT OFFICERS
Campus Organizations: The following listed groups are delinquent in submitting officer and/or membership lists to the Student Personnel Office. No room permits activity permits or open house petitions will be issued to any delinquent organization. All groups still delinquent as of October 7th will be reported to the Student Affairs Committee with the recommendation that University recognition be withdrawn:

SPECIAL INTEREST GROUPS
Economics Club
Assoc. of Women Students
Greater Rolla-UMR-Metro Literary
Karate Club
Table Tennis Club

RELIGIOUS GROUPS
Liahona Fellowship
Christian Science Organization

PROFESSIONAL RECOGNITION ORGANIZATIONS
Alpha Sigma Mu
Pi Epsilon Tau

INTER-CULTURAL GROUPS
India Association
Iranian Student Assoc.
Turkish Student Assoc.
Vietnam Assoc.

LITTLE SISTER GROUPS
Crescents — Officers, Membership and pledge due

THEY SAID IT COULDN'T HAPPEN HERE

On October 20, 21 and 22 The Sound Center, in conjunction with **PIONEER** will sponsor the largest, most spectacular high fidelity sale this area has ever seen.

Over 100 items, including receivers, turntables, separates, tape decks and headphones will be featured at unbelievable prices.

ST. PAT'S BENEFIT MOVIE
The St. Pat's Benefit movie this semester is "Rollerball" on Oct. 11 at the Uptown Theater at 6:30 and 9:10. Tickets are \$.50 in advance and \$.75 at the door. They are available from any St. Pat's Board Junior Rep. at the hockey puck.

ACM
The local chapter of the Association of Computing Machinery will hold a meeting on Thurs. Oct. 6 at 7:30 p.m. in room 201, History-Social Sciences. The guest speaker will be Mr. K.A. Schmidt who is the Advisory Marketing Representative of the General Systems Division of IBM. Series 1 Mini Computer System — a small computer system with a family of small general purpose processors with data processing and communication capabilities. New memberships will be taken and refreshments served after the meeting.

MSM ROCK CLIMBING CLUB
Invites any person interested in rock climbing, mountaineering or related areas to its meetings at 6:30 p.m., Thursdays in 305 Norwood Hall.

STUDENT FINANCIAL AID
The Office of Student Financial Aid wants to advise all Missouri Grant recipients for 1977-78 academic year, that as of this date the Department of Higher Education does not know when the Missouri Grant checks will be sent to the individual institutions for disbursement to the students. Anyone wishing further information should write to: Missouri Student Grant Program, 1130 East Elm Street, Jefferson City, Mo. 65101.

PIE EATING CONTEST
The annual pie-eating contest sponsored by Kappa Kappa Psi and Tau Beta Sigma will be held on October 15 preceding the pajama race. It will be part of the pregame activities for the Homecoming football game against Central Missouri State.

Applications are available in the Music Office in the basement of Harris Hall. Organizations, get your entry in now. A trophy will be awarded the winner.

KME HELP SESSIONS
Kappa Mu Epsilon, national math honor society, will conduct help sessions this semester for students in math courses numbered 2 to 229. The help sessions will be held in Room 209 in the M-C5 building every Monday and Thursday from 6:30 to 8:00.

KME ACTIVE REQUIREMENTS
All KME actives 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.

X-COUNTRY RACE
The annual UMR Faculty-Staff Graduate Student Cross Country Race is Saturday, Oct. 29 on the UMR Golf course. It will be held in conjunction with the UMR-Southwest Mo. State varsity track meet. The race starts at 11 a.m. sharp and contestants should show early to sign up. There will be two races — 2.5 and 5.0 miles. No prizes will be given, but times and places will be kept. Call Don Oster, 4817, for details.

SPECIAL OPEN HOUSE
Students who are members of the UMR Astronomy Club will hold a special open house at the UMR Observatory Wednesday, Oct. 12, 3:15 p.m., for those who wish to view the partial eclipse of the sun. The eclipse will be visible from all parts of the U.S. but will be total only in South America. Approximately 90 minutes will elapse from first to last contact. The 4-inch refractor telescope with the solar filter will be used for viewing.

CREATION
A two-record set of the University Choir and Orchestra's Spring, 1977 performance of Haydn's Creation is available from the Music Office. The record set costs \$8.53 and may be obtained at G-8 Harris Hall. The performance was recorded by KUMR and the stereo record made by Audio House of Lawrence, Kansas.

UNIVERSITY ORCHESTRA IN NEED OF CELLISTS
The University Magnificat Orchestra and the University Chamber Orchestra are in great need of instrumentalists whose specialty is the cello. Persons who are interested in performing should contact Joel Kramme at 341-4185, G-8 Harris Hall, or show up for rehearsals on Mondays, 2:30-4:00 p.m. (Chamber Orchestra), and/or Thursdays, 7:15-9:00 p.m. (Magnificat Orchestra).

BLUE KEY DISTRIBUTION
1977-1978 Blue Key Student Directory Distribution for all unaffiliated students (those not in fraternities or dorms) will be Monday, October 10 and Tuesday, October 11 in the new student union.

ACM MEETING
The local chapter of the Association of Computing Machinery will hold a meeting on Thurs. Oct. 6 at 7:30 p.m. in room 114. The guest speaker will be Mr. K.A. Schmidt who is the advisory marketing representative of the General Systems Division of IBM. His topic will be the IBM Series 1 Mini Computer System.

New memberships will be taken and refreshments served after the meeting.

Order Of The Engineer

By ED LATIMER

On November 9 and 10 of this year, UMR will hold its Order of the Engineer ceremony for seniors graduating in engineering.

The ceremony, to be held on Wednesday and Thursday evening at 4:00 p.m. in the Mark Twain Room of the University Center, is a simple ceremony lasting only about a half-hour with no participation cost.

The history of the Order of the Engineer is brief. Originally Canada had a ritual called "The Ritual of the Calling of an Engineer." The words of the ceremony, are taken from Rudyard Kipling, who wrote much about the engineering profession. The stress of the ritual is an "obligation."

The Canadian ceremony is dignified, impressive and includes the placing of a wrought iron ring on the small finger of the working hand, and then repeating Kipling's words.

In Ohio ideas of a similar ritual formed and a group of

Ohio engineers corresponded with the Canadian Wardens responsible for the Calling of the Engineer, in the hopes of extending the ceremony to the United States.

Due to copyright and other conflicting factors, extension was not possible. So the Ohio Engineers were invited to a Canadian ceremony, whence they formed their own ideas for the "Order of the Engineer." The first ceremony in the U.S. was at Cleveland State in 1970. The Order of the Engineer came to the University of Missouri-Rolla in December, 1972.

The Order of the Engineer ceremony is short and involves only the signing of a creed and taking the pledge. The ring, stainless steel for the U.S. version of the Order, may be worn as a symbol of the order.

UMR graduating engineering seniors may purchase their rings at a cost of \$5.00 ahead of time in School of Engineering Dean's Office, 101 Engineering Research Laboratory.

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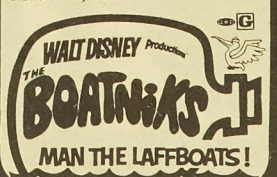
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The women pictured above are the eight remaining candidates for Homecoming Queen, 1977. They are, along with the organizations they represent, from left to right: Paula Flint, Zeta Tau Alpha; Marvis Ridgely, Alpha Epsilon Pi; Kathy Phillips, Triangle; Michele Savage, Kappa Sigma; Susan Remley, T.J.H.A.; Dianne Speer, Pi Kappa Alpha; Wilma

Kirn, Tau Kappa Epsilon; and, Johanna Yuhas, Beta Sigma Psi. The finalists will be determined by a vote of the student body to be held next week, October 10 through 12. The winner will be announced at the half-time ceremonies at next week's football game versus C.M.S.U.

(Photo by Burford)

Eight Semifinalists Remain For Homecoming Queen

From a field of 23 candidates, eight UMR coeds have been chosen as semi-finalists in the 1977 Homecoming Queen contest.

Students whose names will be on the ballot for the campus-wide election Oct. 10-12 are: Paula Flint, junior in computer science, nominated by Zeta Tau Alpha sorority; Wilma Kirn, senior in civil engineering, nominated by Tau Kappa Epsilon fraternity; Kathy Phillips, junior in civil engineering, nominated by Triangle fraternity; Susan Remley, freshman in mechanical engineering, nominated by Thomas Jefferson Residence Hall; Marvis Ridgely, freshman in engineering, nominated by Alpha Epsilon Pi fraternity; Michele Savage, sophomore in engineering management, nominated by Kappa Sigma fraternity; Dianne Speer, senior in geological engineering, nominated by Pi Kappa Alpha fraternity; and Johanna Yuhas, junior in electrical engineering, nominated by Beta Sigma Psi fraternity.

A panel of student representatives from each of the nominating organizations plus five faculty members chosen by the student Union Board met with all 23 candidates informally on Thursday, Sept. 29, then

again on Friday, Sept. 30 for formal interviews with each girl. This group chose the eight semi-finalists.

Beginning Monday, Oct. 10, all UMR students will vote for their choice for the 1977 Homecoming Queen from among the eight coeds. Students may vote (by student I.D. number) at a booth set up outside the University Center if the weather is nice or in the foyer of the building if it rains. They may vote Monday, Tuesday or Wednesday, Oct. 10-12.

Friday night, Oct. 14, the three candidates with the highest total votes will be announced as finalists in ceremonies at the students' Homecoming Dance in Centennial Hall (about 10 p.m.).

The winner, UMR's 1977 Homecoming Queen, will be announced and crowned during halftime ceremonies at the football game Saturday afternoon, Oct. 15. The queen will be the candidate with the highest total of votes cast during the campus-wide election. Interim Chancellor Jim C. Pogue and Alumni President Richard Bauer will share the coronation activities.

Homecoming '77 Events

Oct. 10, 11, 12:

Student Voting For Queen
At University Center.

Oct. 14:

M-Club Bonfire 7p.m.
At IM Fields

Homecoming Dance 9p.m.-1a.m.
At Centennial Hall

Oct. 15:

Coronation Of Homecoming
Queen, 1977 1:30p.m.
At Jackling Field

Michael Stanley Band 8p.m.
Gale Bullman Building

Miner News

What Is Circle K?

By MICHELLE HALL

Some of you may have seen some advertisements for Circle K, and wondered just what it is.

Circle K is a service organization whose purpose is to promote citizenship, enhance relationships between the community and campus, and perform functions for the needy.

One reason you may not have heard much about Circle K is they are just starting back as a functioning organization.

Then last year, with the help of funds from the Kiwanis Club in Rolla, they elected new officers and set out to make themselves productive. At last count they had a total of twenty members.

Their biggest project right now is helping the Big Brothers and Big Sisters program in Rolla to get off the ground. Circle K will adopt four or five boys from the area and try to help them by giving them someone older to which they can relate. They don't do it on a one to one ratio because everyone has so many other commitments, but they all try to take time out of their routines to spend with these children.

The organization has run into a slight problem with their Big Sister program because they don't have any female members. Up until last year Circle K was traditionally an all male organization. Last year in order to be recognized by the university as a national

organization, they had to open their membership to both males and females.

The members of Circle K are all for the idea of girls in their club, but so far there has been no luck in bringing them in. It is the feeling of Paul Rifkin, their faculty advisor, that the girls can perform just as well as any one else and that the services they provide can be accomplished by anyone willing enough. He also feels that they provide services to others because of the good feeling generated from it. Mr. Rifkin transcripts and resumes, but he feels the members of Circle K are genuinely interested in the services they can provide. Projects they have been involved with in the past include selling hotdogs at the Extravaganza Night and giving campus tours on Parents' Day.

Another of the project ideas they are working on this year is a Big Brother and Sister Day at a local eating establishment. They would spend a day drumming up business and

collecting for the Big Brother and Sister Project. They are also looking into the possibility of helping the Dept. of Parks and Recreation with their winter clean-up. Many project ideas have been brought up but many of them depend on a larger number of members to help out. Circle K is inviting anyone interested to come to their meeting and see what it's all about.

Circle K is open to anyone in college. There are no rules as to what level G.P.A. you must have, and the dues are minimal. Dues are \$2.50 and there is a \$5.00 pledging fee charged. The \$5.00 fee covers the cost of your plaque, pin and certificate. You pledge for only one semester and during that semester you must complete five hours of service work and must attend the meetings. Meetings are held every other Wednesday at 7:00 p.m. with the location varying. The next meeting is scheduled for Oct. 12 at the Sigma Nu house and everyone is welcome!

A Pat On The Back . . .

Sigma Nu Tops G.P.A.

In continuing their fine scholastic record on campus, the Gamma Xi Chapter of Sigma Nu once again has won the I.F.C. grade point trophy. Each semester a trophy is presented to the fraternity with

the highest grade point average for its active members. Sigma Nu has won it many times in the

past and has previously retired one trophy by winning three semesters consecutively.

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

Michael Stanley Band Coming To Rolla

For your listening enjoyment and entertainment, the Student Union Board proudly announces that The Michael Stanley Band will appear in concert the Saturday of Homecoming weekend, October 15. The Michael Stanley Band makes their UMR debut in the Multi-Purpose Building at 8:00 p.m.

The beginnings of The Michael Stanley Band originated in the Cleveland, Ohio area. The entire band is composed of Clevelanders and is totally a product of the Cleveland music scene. As one may ascertain from the band's name, MSB was the brainchild of Michael Stanley. Previous to forming MSB, however, Michael produced two albums of his own. Both were folk-style solo albums which gained some national recognition for him. Unfortunately, there was not enough money in them for a decent living, and Michael decided to drop music for a 9 to 5 job in Cleveland.

In early 1974, Michael found himself being coerced into appearing on nationwide TV for a jam session with Joe Walsh, Joe Vitale, David Sandborn and Paul Harris on Don Kirshner's Rock Concert. It was Michael's first stage presentation before a live audience in more than five years. Enjoying the feeling which that audience conveyed toward him, Michael decided to assemble a band of his own.

The product of Michael's endeavors was The Michael Stanley Band, which is composed of Jonah Koslen, Daniel

Pecchio, and Tom Dobeck. Michael's first "discovery" was Jonah, a Cleveland displaced in Colorado. From the very beginning, Jonah shared in the songwriting and vocals. This established a total band concept instead of a solo artist with back-up band arrangement. Jonah also lends his ability on the guitar to the group's creations.

Thanks to the break up of Daniel Pecchio's band, Glass Harp, Michael added him to his new group. Daniel played bass for Glass Harp; but with The Michael Stanley Band, he played in an acoustical trio. In the trio, Daniel spent his time learning some of Michael's material and writing material of his own.

In mid 1975, the MSB released its first team effort, "You Break It, You Bought It." Their producer on the album was Bill Szymczyk, who had earlier unearthed the James Gang in the Cleveland area. MSB's second album, also displaying the Epic label, "Ladies Choice", was recorded late in 1975. After this album, The Michael Stanley Band recruited Bob Pelander to finger the keyboards and perfect the vocals.

The Michael Stanley Band's third album, "Stage Pass", is an enjoyable excursion into the realm of MSB's musical brilliance. Since it is a live album recorded at the Agora Ballroom in Cleveland, "Stage Pass" allows the listener the rare opportunity to sample a bit

of MSB in concert. On October 11 at 8:00 p.m. MSB's "Stage Pass" will be the featured album on KMNR's Flipped hour.

Tickets for the concert may be purchased at the University Center Monday through Friday, October 10-14, between the hours of 8:30 and 2:30, except for Friday. Friday they will be on sale between the hours of 8:30 and 1:30. Student tickets purchased in advance will sell for \$2.50 each with a valid UMR I.D. At the game Saturday, student tickets will be \$3.50 each with a valid UMR I.D. There is a limit of two student tickets per I.D. General admission tickets will retail for \$5.00 apiece, and there will be no limit to the number one may purchase. However, there is a limited number of tickets available for general admission.

As usual, the Student Union Board wishes to ask that every student cooperate with the "No Smoking" rule imposed by the athletic department. It is permissible, however, to smoke in the lobby of the Multi-Purpose Building. With the new gym floor, the athletic department is quite concerned about the possibility of any damage occurring to the finish. Also, SUB prefers that everyone leave all alcohol and other illicit substances at home. Student Personnel is fearful of the liabilities presented by the alcohol in the form of civil suits and insurance cancellations.



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What's It All About, Joe Miner?

By JOHANNA YUHAS

What role does an engineer really play in today's economy? How does an engineer apply, on the job, his one hundred thirty-two hours or more of UMR's version of "reading, writing and 'rithmetic?"

For the curious, the answers to these and many more questions were available at UMR's tenth annual Missouri Industry Day held Tuesday, September 27 in the gym of the Multi-Purpose Building. With participants numbering over eighty, UMR students and other interested guests received a small sampling of the varied functions of the modern engineering profession.

Representatives from

throughout the United States descended upon Rolla armed with displays, literature, and informal presentations as varied as the colors of the rainbow.

Spokesmen from the Missouri section of the Council of Consulting Engineers provided a guideline of capabilities and characteristics that should be inherent in the graduating engineer. These include, "innovative ideas and the ability to carry them out; proficiency in drafting and lettering; the ability to perform mathematical calculations accurately; adequate training in pre-calculus courses of algebra, trigonometry, and geometry, the ability to spell

properly and a knowledge of fundamental rules of grammar; proficiency in reading engineering drawings, good personal habits; a diplomatic and tactful approach to people and speed and accuracy in work."

Along with this general outline, many companies had more specific purposes in mind. According to Mr. Paul R. Marting, a recent UMR graduate in electrical engineering and the representative of Johnson Control Systems and Services

Division, "Our purpose here is not to advertise our products, but rather to discuss our company's employment opportunities as they apply to engineering students. Secondly, we are recruiting now for December and May graduates."

Participating for the first time this year is the Colgate Palmolive Company who markets a diversified line of products ranging from laundry detergent to diapers to cosmetics. The stated purpose of their trip was to fill their

needs for "chemical, mechanical, or industrial engineers interested in manufacturing and production management."

The constant desire to improve products that serve mankind has inspired research and engineering implementing designs with increased productivity and reliability. As long as this desire continues, it is highly probable that UMR will also continue sponsoring a Missouri Industry Day for tomorrow's engineer.



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, be printed in the unaltered and original form when space in this newspaper permits.

What's The Answer To Underdeveloped Nations?

Sir,

Dr. Rao's article gives some very interesting ideas on the concept and means by which developing nations can increase their growth rate so as to be at par with developed nations.

An abundant supply of cheap energy is a key factor for sustained growth in a modern economy. Most of the developing nations have been caught in a kind of vicious circle where undertaken projects do not meet their purpose due to lack of money supply, and money supply is never adequate to undertake beneficial projects. He is right that any interdependence of nations will provide the necessary synchronism where economies of nations involved will change in unison and therefore for the better. He, however, does not point out the fate of an underdeveloped nation with limited or no resources.

He goes on to point out that there shall be no fear of a nuclear war once all the nations have nuclear weapons. That accepts the concept of balance of power which on more than one occasion has been proved to be less than reliable. Flow of technology to underdeveloped nations for the peaceful use of nuclear energy with adequate safeguards is possibly the answer, but then the question arises; why should only a few nations preaching nuclear non-proliferation have the right or assumed rationale to use

nuclear weapons if they so chose.

Sincerely,
Anil Kumar Singh
ERL 323
Univ. of Missouri-Rolla
Rolla, MO

Variety, My Boys, Variety!

Dear Editor:

This letter is addressed to the KMMR listening audience, and, in particular, to Steve Partney. Though I have never fancied myself verbal enough to express an opinion publicly, perhaps the time has come.

The KMMR Bluegrass Variety Show, aired each Thursday afternoon, is an experiment which the musical coordinators of the station have been open-minded enough to allow trial. The format of the show is just what the title implies — Variety! It is not just bluegrass, as those who have tuned in can attest to. The reasons for this follow:

(1) The definition of "bluegrass" is vague and subjective (though Bill Monroe may have just cause to object to this statement).

(2) There is so much music which the average listener is kept ignorant of, and KMMR's programming is somewhat to blame for this, as well as most other radio stations across the nation. Our programming is almost entirely at the mercy of the individual DJ, and hence, very little in the realm of bluegrass and country receives air time.

(3) Due to the above, the KMMR Bluegrass Variety Show is an attempt, however shallow, to allieviate this void, and ex-



Missouri Industry Day — mass of chaos.

Photo by Burford

pose the listener to a variety of music which he-she may not have experienced before.

(4) With only 3 hours air time each week, one can hardly roam the gamut of country and bluegrass in a smooth, unified way. There is simply too much old and new music!

As a result, the show is normally blocked into 45 to 60 minute segments, each of which features a particular style. Some may call this abuse; others, ecstasy. I prefer the invention of necessity. These blocks vary week to week, and usually repeat themselves every 3 weeks or so, as new music accumulates.

A summary of these blocks might be listed as: Traditional bluegrass; progressive bluegrass; gospel, both country and bluegrass; country swing; acoustic, jazz-influence swing; improvisational acoustic guitar and other acoustic instruments; progressive country (not country rock); and, the vaguest, looney tunes. All these types of music are in a rapid growth stage today, though few realize. And all have, up to this time, received little to no air-play on KMMR.

A few more thoughts, and I'll graciously resign. I do not play honky-tonk on the show. I feel honky-tonk music is excellent for bars and truck stops; however, the KMMR studio is hardly conducive to these at-

continued on p. 8

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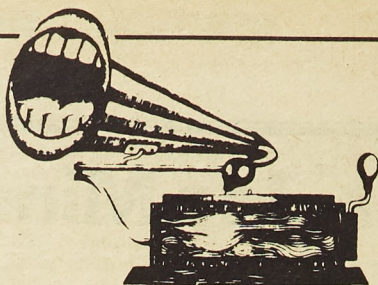
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It was probably the last outdoor concert of the year. The crowd was swathed and bundled in multi-colored shawls and parkas. They sat on blankets and tarps, wore hats and gloves, and sat close together, attempting to retain the last vestiges of the summer past. Nevertheless, the stamina of anticipation proved stronger than the cold as several hundred braved adverse conditions to see Frank Zappa perform at the Washington U. Quad.

Sporadic shouts of "Zappa!" kept the adrenaline flowing as the road crew finalized preparations in the almost complete darkness of the chilly October night. Folks sat on the other foot for the thousandth time, made a last run to the can, lit up another cigarette (or whatever), or sat silently, waiting. At long last, the canned music faded, the stage lighting slowly died, and dim figures could be seen taking the stage. The watching crowd roared its approval, and, after an opening greeting by Zappa, settled down to an evening of some of the most astounding music I've ever heard in concert.

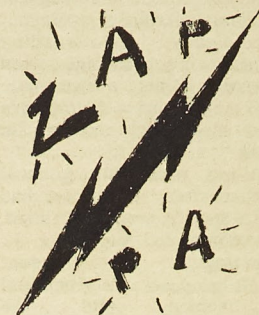
The band, consisting of, for the most part, musicians from the Zoot Allures LP, launched off the set with a familiar "Peaches in Regalia" which set everyone at ease, and set the pace for the evening. The band was incredibly tight, segueing from selection to selection without breaks, only a gesture from Zappa, obviously the master of the evenings musical destiny. The bridges between songs were constructed in such away, that each subsequent song seemed the only possible choice to follow. There was no introduction of each selection, no flash pot to explode at the end, no laser show, nobody wore tights or make-up; only Zappa and his band, cranking out music for everybody and nobody, leading you by the ears, as they led the way.

I can't stress enough the way Zappa was able to manipulate the mood of the listeners. More than a bandleader, he seemed a producer, controlling the direction and force of the music. The first set lasted almost an hour, without a break, yet it seemed to stretch on and on, as one was swept along with the musical tides. Not to say that Zappa was without stage

presence. When the spotlight picked him out, with either guitar or mike, he commanded your attention. His guitar runs and rhythm fills were outrageously smooth and powerful at once. At times, it seemed the entire crew was linked together as they shifted and metamorphosed within the structure of the song. Yet Zappa was in charge, and no one doubted it for a nanomoment.

Most of the material was new to the majority of the crowd. Selections from the older Zappa albums popped up from time to time, much to the delight of the hundreds of Zappa freaks. (myself included) The new material was received well, especially the more humorous, featuring numbers entitled; "Titties and Beer", "You're an Asshole", (dedicated to the St. Louis producers who didn't consider him a drawing power, and thusly, didn't give him an indoor facility), and a less than complimentary tune about a young gay in love with a publicity picture of Punky Meadows of Angel.

There was no question of



there being an encore, in fact, there were two. The massed voices of the audience were not merely shouting in applause, they were calling out their favorite cuts. Frank stepped to the mike, and said, "Here's something from the Overnight Sensation album," and launched into "Dinah Moe Humm", and the finale, "Zoot Allures". As we all crunched through the narrow exitways, I realized that there hadn't been a single unhappy moment during the concert. There were only smiles around me, and laughter. Thanks, Frank.



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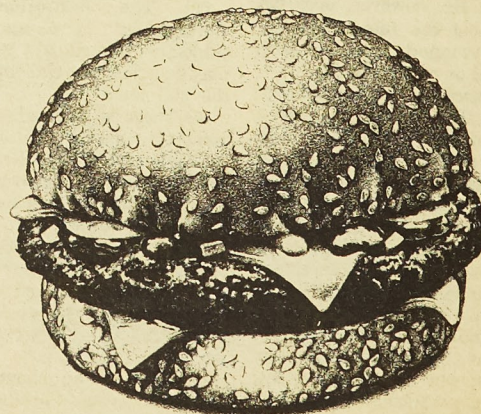
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Not Spanning the Globe - Just the Mississippi

By MARILYN KOLBET

Professor Douglas Wixson presented a lecture on the Eads Bridge Tuesday in the Civil Engineering Auditorium. A short series of slides were shown and narrated by Professor Wixson to accompany his lecture.

The Eads Bridge spans the Mississippi River in St. Louis. Finished in 1874, it has both historical and literary significance according to Professor Wixson.

The first bridge in the United States to be totally constructed from steel, the bridge combined both industrial advancement and aesthetic beauty in its structure.

In explaining why this lecture was part of the weekly "Life and Man Series," Professor Wixson stated, "I think that the bridge has a great deal to do with the Humanities. It's beauty has been the source of inspiration for many writers and poets, including Walt Whitman."

According to Professor Wixson, Walt Whitman came to visit his brother in St. Louis in 1879 and saw the bridge then.

"I have haunted the river

every night lately, where I could get a look at the bridge by moonlight. It is indeed a structure of perfection and beauty unsurpassable, and I never tire of it."

— Walt Whitman

Another unique part of the bridge's construction had to do with the man it was named after. James B. Eads was fascinated by arches. His bridge reflects this.

The three arches spanning the 1500 foot distance were the source of the bridge's fame.

"If this were merely my own enterprise, and if my fortunes alone were at stake, I would have bridged yonder river with a single arch 1500 feet in length."

— James Eads

Professor Wixson concentrated on how the Eads Bridge combined art with science.

"The bridge has a structural function and an aesthetic function," he stressed.

It was a gateway to the west for railroads and other land-bound transportation, explained Professor Wixson.

"The bridge contributed a great deal to the opening of the west. I feel that today it is still a

monument," stated Professor Wixson in his closing remarks.

The slide show compared the construction of other bridges built around the same time to Eads Bridge. It emphasized the bridge's uniqueness.

Though he originated the idea of the arches, Eads was not an engineer. The mathematics was worked out by the math department at Washington University. Eads relied on theory but he had others check it out.

"Everything...has been carefully observed in its design and construction. Every computation involving its (the bridge's) safety has been made by different individuals thoroughly competent to make them, and they have been carefully revised time and time again, and verified and re-examined, until the possibility of error nowhere exists."

— Eads

A book was compiled from all the information, calculations, drawings, and pictures concerning this original bridge. The volume is huge in size.

The University of Missouri-Rolla possesses a copy of this book. It is kept in the rare book storeroom.

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Poet, Thomas McAfee, Gave Reading

By LINDA PONZER

Noted poet, Thomas McAfee recently presented a reading of his poetry to a very crowded room of eagerly listening UMR students and faculty. He did selections from several of his books, including, "I'll be home late tonight", "The Body and The Body's Guest; New and Selected Poems", and "Time Now". Mr. McAfee started out his reading with a serious poem and elegy to a student of his who died at a very early age. Throughout this poem one could sense the love and sorrow that filled Thomas, at this death. One could apply the feelings in this poem to themselves if they have experienced the death of a loved one.

Not to dawdle on the sadder aspects of life for long, Thomas brought the audience to laughter with his amusing anecdotes, several of which drew upon the man and wife situations.

Thomas has been writing since he was a little boy, though he wouldn't reveal his age, he appeared to be around forty. "I write for a lot of reasons", said Thomas. "I write of what I'm doing now, and to try to find out something important, WHO I AM."

As to whose work Thomas

admires most, "I couldn't say," he replied "there are hundreds of them."

The poem which McAfee said best describes himself is one called, "Being Dull." It is from his book, "The Body and The Body's Guest" it is presented here for the reader's enjoyment.

BEING DULL

I have tried to strip
the unnecessary:
the showy clothes, the food
neither good nor needed,
the metaphors that are
themselves, the killing
adjectives, small talk,
big talk. And so, I'm dull,
holding necessity in my hand.

ediletters

(cont. from p. 5)

mospheres, and hence I refrain from those realms of musical expression. I do play country swing and progressive country, and feel they have an appropriate niche in KMN's contemporary music spectrum.

Finally, Steve, I too was once a "brother" (of Phi Delta Theta, Duke University), and can empathize with your fraternal frustrations. However, I regret that these troubles in the social realm must influence your attitude towards music. I guess some people would rather rock and roll 24 hours a day. Fortunately, some folks do not share your taste, and as supporters of KMN, both financially and otherwise, they deserve adequate compensation also. And, if you can find a station which does play music comparable to that of the Variety Show, please let me know. I'd love to tune them in.

Sincerely, but not
apologetically,
Dave Obermann
DJ — Bluegrass Variety Show

Rally 'Round The Campus

Dear Editor,

In response to a letter which appeared in last week's Miner, I would like to say the 12th. Man Award is not a farst. First of all we have an excellent panel of judges who do a fine job of awarding points in the various categories. Secondly the M-Club recognizes that certain organizations have a high percentage of the band members and also that many non-football athletes sell programs before the games. All of these items are taken into consideration before the final decision is made.

Now I ask the question: Is Sigma Pi and all the rest of the organizations really at the game to cheer on the Miners or are they there to compete with their fellow students just to win an award? It seems to me that too many times, at UMR, school spirit is abandoned in favor of fraternity spirit, St. Pat's Board spirit, or dorm spirit. Just once I would like to see everyone join together as Miners and show a little school spirit.

Tommy Rosenauer
co-chairman M-Club
12th. Man Award Comm.

Groundwaves



Here's a quick look at the upcoming programming on KMN: Today on the country slot, starting at 1:00 PM, "Old Train" by Seldom Scene will be featured.

Tonight, beginning at 8:00 PM on Flipped, Foghat "Live" will be played. This album is currently very popular.

Looking ahead to next week, on Monday night's Insomniac's Theater beginning right after the midnight news, Simon & Garfunkel's classic "Bookends" will be featured.

On Tuesday Flipped will feature the Michael Stanley Band's "Stage Pass" and on Thursday, October 13th, Kansas' brand new live album will be played which only a select few radio stations have at this time.

Insomniac's Theater will play "Abraxas" by Santana on Wednesday night.

Also, coming up later this month, KMN will once again have its Glitterball. This year's theme is Cosmic Debris and the date planned is Saturday night, October 29th.

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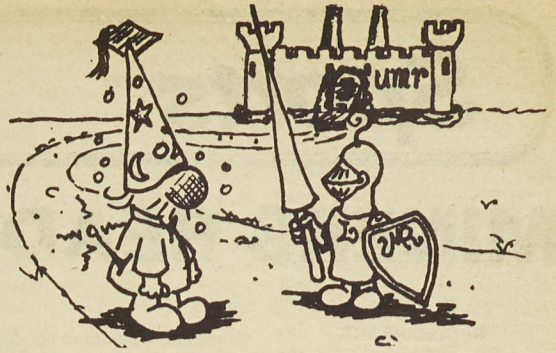
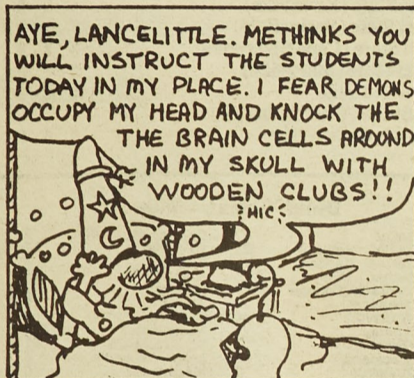
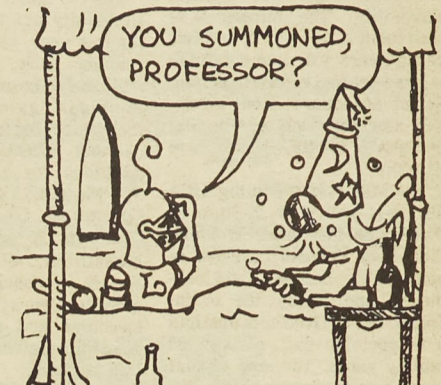
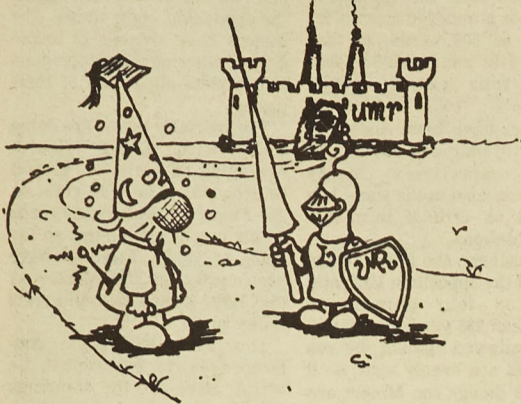
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**the Professor and Lancelittle****Local Notes—Rolla**

By LINDA PONZER

Local Notes is the column devoted to keeping the UMR Miner up to date on what's happening in Rolla. All of the below information was found in the pages of the Rolla Daily News.

On Thursday, September 22, a prisoner at the Phelps County Jail just quietly disappeared. The prisoner, Timothy Crews, 20 who had been on a work-release program asked his employer to drop him off at the Courthouse so that he could see the Prosecuting Attorney. Crews has not been seen since. A warrant has been issued for his arrest.

Local grape growers reported a fair harvest for the 1977 season. Reportedly this year's harvest averaged a 17 per cent sugar content as compared to the national averages of 16 per cent.

Over six hundred people attended the benefit barbeque that was held September 25 to help raise funds for the now completed hog barn at the Central Missouri Regional Fairgrounds.

Tragedy struck the Rolla High School as Junior Terry Neal was killed as his car skidded approaching a curve on Route

BB, east of Rolla. A passenger in the car — Joseph Boeding received treatment for a broken collar bone. Terry was pronounced dead at the scene of the accident. A sign which normally stood at the curve at which Terry was killed had been vandalized, and was invisible from the road. Terry

was a defensive nose guard for the RHS Bulldog team.

The Rolla Planning and Zoning Committee voted 7-0 to recommend the approval of a plan to rezone 80 acres between Ber Juan Park and Old St. James Road. Final approval of the proposal must come from the city council.

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MINERS READY FOR MIAA ACTION

By BILL FRANK

The Miners will travel to Jefferson City Saturday to face the Blue Tigers of Lincoln University. The Miners take with them a 2-2 record, and two key players will come off the injured list and return to action. Senior noseguard, Kent Lewis, will start as well as the big defensive tackle, junior Joe Kinsella.

The Miners are coming off a big 16-14 win over K-State at Pittsburgh last week in which the Miner defense sparked in spite of the horrible field conditions and losses due to injuries. The UMR offense also had a respectable day, netting 259 muddy yards. The star of that game was freshman safety Bill

Grantham who came up with a game-saving interception with forty-six seconds left in the contest.

The Tigers of Lincoln University are 0-3-1 in play so far this year, but as their new running back, freshman Joe Galloway from Kalamazoo, Michigan, gains experience, they hope to muster a more exciting offense. Other new additions for Lincoln include Jim Parham, a noseguard from Columbus, Georgia, Robert Dennison, a noseguard from Massillon, Ohio, and Dan Wetzel, linebacker from Pittsburgh, Pennsylvania. All are freshmen and all have made good impressions on head coach Don Hudson.

Returning regulars for

Lincoln include their super-fast split end, Mike West, and their two All-American running backs, seniors Kevin Scott and Barrett Paige. They combined for 2,052 yards last year. Early Lawhorn, first-time All-American guard, will anchor the offensive line. Defensively, second-team All-American Ivan Seahorn is back at linebacker and sophomore cornerback Mike Pennington, from Kansas City, anticipates a good season. The Tigers employ a "Monster Man" defense also, so watch for their sophomore monster back, Wayne Hervey, from Kansas City.

The Miners look to do some scoring when they face Lincoln Saturday, as their solid offense has already netted nearly a

thousand yards passing in four games while running for 500. So far All-American back Terry Ryan has been the workhorse with over a hundred carries for a total of 502 yards. He has gained over one hundred yards in all four games. Kenny Vaughn's two principal receivers have been Andy Cox and David Hall, with 395 and 233 yards respectively. Monty Morse has also made some key catches on critical third-and-long situations.

Defensively, the Miners have allowed the opposition 1182 total yards in four games, an average of 295 yards per game. Yards allowed against the run and pass are evenly split, so it looks as though the Miners are not particularly susceptible to

any kind of attack. Freshman Cairg Heath has four interceptions, and Bill Grantham has two. UMR has intercepted the opposition eight times. The miners have allowed 13 touchdowns, allowing their opponents to complete about half of their passes.

The specialty teams are doing well, with Craig Heath averaging 22 yards on kickoff returns and 12 on punt returns. Joe Fuqua is averaging 39 yards on his punts, his longest so far being 51 yards. Fumbles have been costly for the Miners as they have turned the ball over 8 times so far.

This week will begin conference play for everyone in the MIAA. Here are the standings so far:

The Bob Harmon Forecast

1—MICHIGAN
2—SOUTHERN CAL
3—TEXAS
4—COLORADO
5—OKLAHOMA

6—OHIO STATE
7—NEBRASKA
8—PENN STATE
9—ARKANSAS
10—BRIGHAM YOUNG

11—PITTSBURGH
12—L.S.U.
13—ALABAMA
14—CALIFORNIA
15—TEXAS A & M

16—TEXAS TECH
17—NOTRE DAME
18—KENTUCKY
19—HOUSTON
20—FLORIDA

Saturday, Oct. 8 — Major Colleges

Alcorn State	23	Texas Southern	22
Appalachian	30	East Tennessee	7
Arizona State	24	New Mexico	12
Arkansas State	20	Lamar	17
Arlington	17	McNeese	15
Ball State	24	Illinois State	7
Baylor	24	S.M.U.	13
Bowling Green	25	Toledo	7
Brigham Young	38	Oregon State	7
Brown	21	Pennsylvania	6
California	28	Washington State	16
Central Michigan	33	Northern Illinois	7
Chattanooga	23	Western Carolina	10
Cincinnati	24	Florida State	17
Citadel	20	Delaware	16
Clemson	31	Virginia	0
Colgate	28	Holy Cross	6
Colorado State	34	U.T.E.P.	6
Colorado	28	Oklahoma State	15
Dartmouth	21	Yale	17
Davidson	22	Randolph-Macon	20
Dayton	28	Akron	13
Eastern Carolina	22	Southern Illinois	23
Eastern Michigan	27	Ohio	27
Fresno State	28	San Diego State	27
Fullerton	27	NE Louisiana	14
Furman	25	Wofford	6
Georgia	20	Mississippi	10
Grambling	27	Tennessee State	15
Harvard	21	Cornell	24
Hawaii	25	Pacific	24
Idaho	32	Idaho State	7

Illinois	23	Wisconsin	21
Indiana State	27	Drake	21
Indiana	28	Northwestern	10
Jackson State	31	Pine Bluff	20
Kansas	24	Miami, Fl	20
Kent State	27	Western Michigan	15
Kentucky	28	Mississippi State	20
L.S.U.	37	Vanderbilt	6
Louisville	22	Tulsa	10
Maryland	30	Syracuse	15
Miami (Ohio)	21	Marshall	10
Michigan	31	Michigan State	6
Minnesota	27	Iowa	16
Missouri	20	Iowa State	14
Navy	24	Air Force	9
Nebraska	34	Kansas State	8
No Carolina State	23	Auburn	14
North Carolina	20	Wake Forest	7
North Texas	23	South Mississippi	20
NW Louisiana	22	Nicholls	7
Ohio State	24	Purdue	10
Penn State	35	Utah State	7
Pittsburgh	30	Florida	13
Princeton	21	Columbia	19
Rutgers	27	Connecticut	16
San Jose State	24	Santa Clara	16
South Carolina	22	Duke	21
Southern California	27	Alabama	17
Southern U.	23	Bishop	7
SW Louisiana	21	Louisiana Tech	17
Tennessee	23	Georgia Tech	17
T.C.U.	26	Rice	20
Texas Tech	27	Arizona	13
Texas	27	Oklahoma	24

Northeast Missouri State (Kirksville)
Southwest Missouri State (Springfield)
Southeast Missouri State (Cape Girardeau)
Northwest Missouri State (Maryville)
University of Missouri-Rolla
Central Missouri State (Warrensburg)
Lincoln University (Jefferson City)

W L T
4 1 0
3 1 0
3 2 0
3 1 0
2 2 0
0 4 0

Other Games—Midwest

Baker	37	Central Methodist	6
Baldwin-Wallace	21	Wittenberg	17
Bethel, Kansas	23	Friends	6
Bethel, Minn.	20	Hamline	14
Colorado College	24	Chadron	12
Defiance	17	Taylor	8
Evansville	30	DePauw	6
Findlay	26	Manchester	7
Franklin	27	St. Joseph's	21
Graceland	33	Iowa Wesleyan	6
Gustavus	37	Macalester	0
Hope	20	Albion	17
Midland	26	Nebraska Wesleyan	15
Millikin	35	North Park	0
Missouri Southern	26	Washburn	21
Missouri Valley	21	Ottawa	13
Missouri Western	22	Pittsburg	14
Muskingum	22	Ashland	21
Northern Colorado	21	Central Oklahoma	14
Northern Michigan	24	Western Kentucky	6
NW Oklahoma	21	Southern State	20
Northwood	41	St. Norbert	0
Rolla	26	Lincoln	14
St. Cloud	24	Bemidji	17
St. Thomas	27	Augsburg	6
South Dakota	23	North Dakota	21
SE Missouri	23	Central Missouri	10
SE Oklahoma	23	E. Central Oklahoma	20
Sterling	26	Kansas Wesleyan	13
Stevens Point	35	Stout	6
Valparaiso	24	Wabash	23
Washington, Mo.	25	Principia	6

Haefner Leads Harriers

Last Saturday the Missouri Miner Cross Country team traveled to Columbia to participate in the All-Missouri Cross Country meet. Fifteen of the sixteen University Cross Country teams in the state participated in the event. The Miners paced by freshman Brent Haefner finished eighth. However when considering only the conference teams in the scoring UMR finished tied for third with Northwest. Southwest and Central finished ahead of the Miners and Northwest and Lincoln finished behind.

The top five runners for UMR were Brent Haefner 26:35, Brian Bowen, Mike Ackerson, Dave Sorrel, and Glen Heater. This week the Miner harriers have a triangle meet at Lincoln with the School of the Ozarks.

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Intramural Football Nears Playoffs

By BRAIN EDWARDS

Going into the last week of Flag Football league play most of the playoff positions are still up in the air.

In last week's action in League I it was Acacia defeating Focus 21-13. Sig Tau won three big games as they edged MHA 23-20 and beat Campus by obtaining the most yardage in a 13-13 tie. Then in a game played this Monday Sig Tau shut out Focus 21-0. Powerful Sig Ep won again, this time over Mates 56-0.

In League II competition Kappa Sig was eliminated from the playoff picture as they lost to both Lambda Chi 13-7 and Sig Nu 26-7. Sig Nu was busy this last week. Besides beating Kappa Sig they also blanked AEPi 29-0 and stomped Delta Tau 41-13. In the only other League II game TKE bounced back from their 14-10 loss two weeks ago to demolish ABS 24-0.

In League III action Pikers dropped another one as they lost in overtime to GDI 20-14. KA had a good week as they won

three games. KA defeated Delta Sig 20-7, beat Wesley 33-7 and downed Pikers 21-14. Phi Kap remained undefeated as they topped Pi K Phi 32-6.

TEC continues to dominate League IV as they overran Triangle last week 48-7. Beta Sig won two games 32-14 over Theta Xi and 20-15 over Sig Pi. But then lost a big game to TJ 13-7 that may have put them out of the playoffs.

In League I both Sig Ep and Sig Tau have clinched playoff spots. In League II the first and

second spot is up for grabs between Sig Nu, TKE, Lambda Chi and ABS. Sig Nu is assured of a playoff spot but can still be knocked out of first. The same situation that exists in League I is in League III. Both Phi Kap and KA are undefeated and have wrapped up playoff spots.

In League IV there are still three teams in contention for the playoff spots; Tech Eng, Beta Sig, and TJHA. The league standings printed are up to and including the games played Monday, Oct. 3.

Intramural Standings

I		III	
Sig Ep	4 0	Phi Kap	4 0
Sig Tau	4 0	KA	3 0
Campus	3 2	Wesley	3 2
MHA	2 2	GDI	2 2
Acacia	1 2	Delta Sig	2 2
Focus	1 4	PiKA	1 4
Mates	0 5	PiKPhi	0 5
II		IV	
Sig Nu	5 0	Tech Eng	4 0
TKE	3 1	Beta Sig	3 1
ABS	3 2	TJHA	2 2
Lambda Chi	2 2	Triangle	2 3
Kappa Sig	2 3	Sig Pi	1 3
Delta Tau	1 4	Theta Xi	0 3
AEPi	0 4		

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Women's Sports

By MAUREEN MURPHY

This last weeks games are well worth writing about. Our home game against Jefferson College on September 30, was probably the toughest match that our team will play all season. The first game, lost with a 7-15 score, was a long and tiring bout. We lost the second game 5-15, and the third game 8-15 giving the match to the Jefferson College team.

Our game against Washington University on October 1 was truly an exciting game for any avid volleyball fan. Although we lost, the team played better than I've ever seen them play," stated Rosie Love, the team's manager. Rosie also agreed that there were many questionable calls, which is unfortunate in such a close game. The first game was ours with a score of 15-13. Washington took the next game with a score of 9-15. The third game was so close that the teams were forced to play past the usual 15 point game. We lost it to Wash. U. 14-16. Washington won the fourth game 12-15 giving them the match.

We also played Stephens college on October 1. Our team was psyched to win, and did the job. With game scores of 15-4, 15-8, 15-7, we walked away with the win.

This week on Wednesday, October 5 we play Meremac Community College and St. Louis University both in St. Louis. On Saturday, October 8 in Rolla, we play Lincoln University at 1:00 p.m., William Woods College at 2:15 p.m., and Washington University at 4:00 p.m.

Intramurals started this week

Regardless of the cold weather cycling starts Sunday, October 9. Any girls brave enough to ride their bike in this cold weather deserve a lot of credit. The majority have never competed in any type of cycling event before. They just really enjoy the exercise.

WHAT'S AN NSA CAREER?

It's different things to different people.

Of course, all employees at the National Security Agency have certain things in common: they are civilian employees of the Department of Defense; they are engaged in technical projects vital to our nation's communications security or a foreign intelligence production mission; and they all enjoy the benefits that accompany Federal employment. However, the differences between our career opportunities are just as interesting as their similarities. For example...

TO THE ELECTRONIC ENGINEER (BS/MS): An NSA career means delving into unique projects which can span every phase of the R&D cycle. An engineer may design, develop, test and manage contracts on communications, recording, and information storage devices and systems whose capacities and speeds are still considered futuristic in most quarters.

TO THE COMPUTER SCIENTIST (BS/MS): It means applying his or her knowledge in a wide range of sub-disciplines such as systems design, systems programming, operating systems, computer applications analysis, and retrieval systems.

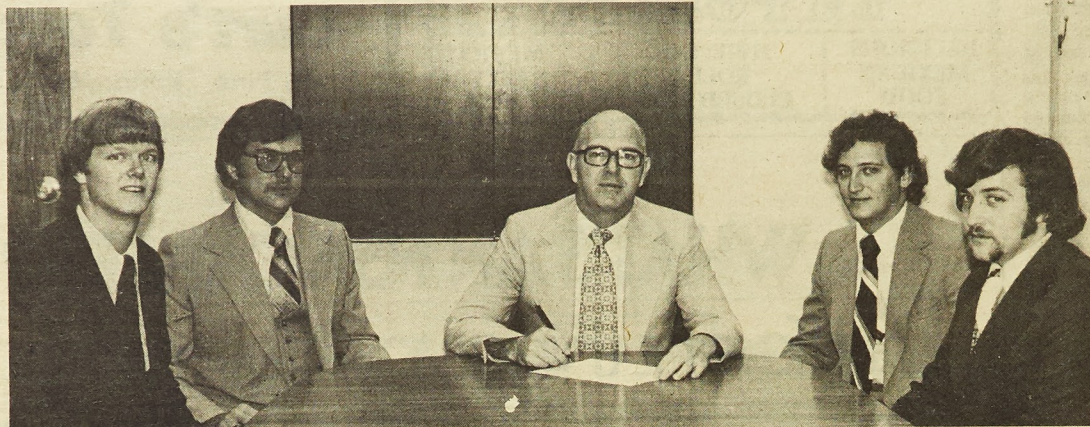
TO THE MATHEMATICIAN (MS): A career means defining, formulating, and solving complex communications-related problems. Statistical mathematics, matrix algebra and combinatorial analysis are just a few of the tools applied by the NSA mathematician.

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THE 2ND ANNUAL JOE MINER WEEK SCHEDULE OF ACTIVITIES:



Interim-Chancellor Pogue, center, puts his official signature on the JOE MINER WEEK Proclamation. Presenting the proclamation to Dr. Pogue from the JOE MINER Committee are from left to right Mike Simac, Mike Lueckenhoff, Bob Fleischman and Mike Bell.

CALENDAR — SPECIAL ACTIVITIES

MONDAY

Top Hat Lounge 9-11 E.S.M.+

TUESDAY

Overalls and Workshoes Day - 209, 9-11 E.S.M.+

WEDNESDAY

The Attic, 9-11 E.S.M.+

THURSDAY

T-Shirt & Hard Hat Day Carriage Lounge 7-9 E.S.M.+
Theta Tau Disco Night 8-11.

FRIDAY

Mine Shaft, 3-5 E.S.M.+
M-Club Bonfire, Intramural Field, 7:00 p.m.
SUB Coronation Dance - 9:00 p.m., Centennial Hall
Homecoming displays judged by IFC - 5:00-7:00 p.m.

SATURDAY

Gale Bullman Multi-Purpose Building Dedication 12:45 p.m.
Kickoff, Miners vs. CMSU - 1:30 p.m.
Pregame show
1. IFC Pajama Race
2. Kappa Kappa Psi-Tau Beta Sigma Pie Eating Contest
Half time
1. UMR Band
2. Presentation of first three places for homecoming queen.
SUB Concert — 8:00 p.m. - Michael Stanley Band - Multi-Purpose Building.

+ Enjoyable Sixty Minutes (Alias Happy Hour)

The Joe Miner Committee expresses their sincere thanks to all those who make this week possible, including: UMR Bands, Kappa Sigma, Tau Beta Sigma, Kappa Kappa Psi, M-Club, UMR-IFC, SUB, Blue Key, Kenmark's, Key Sportswear.

Buy your Joe Miner regalia and participate in the Second Annual Joe Miner Week and Homecoming 1977.

SHOW YOUR SPIRIT!!!

COME OUT AND SUPPORT JOE MINER WEEK!!!