



22 Sep 1971

The Missouri Miner, September 22, 1971

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Industry Day, Key To Student's Careers

Some 46 companies will have displays at Missouri Industry Day to be held from noon until 8 p.m. Sept. 28 in the University of Missouri-Rolla Multi-Purpose Building.

Company representatives will be on hand to talk about career opportunities and show company products and services. Everyone is invited to attend. There is no admission charge.

A bus will run from the Parker Hall parking lot to the Multi-Purpose Building and back about every half hour from noon until about 5 p.m. for those who need transportation from the campus.

Companies taking part this year include:

MISSOURI

Crystal City: PPG Industries, Inc.

Ironton: Ozzark Lead Co.; Pilot Knob Pellet Co.

Jefferson City: Missouri Society of Professional Engineers;

Missouri State Highway Department; United Telephone Co.

Kansas City: Cook Paint and Varnish Co.; Hallmark Cards, Inc.; Missouri Public Service Co.; Black & Veatch.

Lee's Summit: Western Electric Co.

New Haven: Kellwood Co.

New Madrid: Noranda Aluminum, Inc.

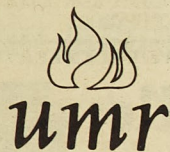
Rolla: Clark National Forest Service; U.S. Geological Survey--Topographic Division and Water Resources Division; U.S. Bureau of Mines (Rolla Metallurgy Research Center); Wallace-Murray Corp. (Schwitzer Division).

St. Louis: Aeronautical Chart and Information Center; IBM Corp.; Continental Telephone Service Corp.; Fruincolnon Corp.; General Electric Co.; The Edwin F. Guth Co.; Horner and Shifrin, Consulting Engineers; Missouri Pacific Railroad Co.; Monsanto Co.; Nooter Corp.; Procter and Gamble Manufacturing Co.; St. Louis District Corps of Engineers; St. Louis-San Francisco Railway Co.; Southwestern Bell Telephone Co.; Union Electric Co.; Rawlings Sporting Goods Co.; Moog Industries, Inc.; St. Louis Metropolitan Sewer District; White Rodgers and Alco Controls

(Continued on Page 7)

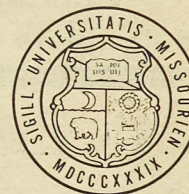


Companies participating in the Activities on Industry Day tell students the opportunities and the types of jobs that are available to today's Engineering Student.



The Missouri MINER

UNIVERSITY OF MISSOURI - ROLLA



VOL. 58 NO. 3

12 PAGES

WEDNESDAY SEPTEMBER 22, 1971

ROLLA, MISSOURI

Freshmen May Lose Their Student Draft Deferments

The Selective Service System today clarified expected policy changes on undergraduate student deferments.

College students who were enrolled full-time in the 1970-71 academic year will be eligible for student deferments in the 1971-72 school year if they continue to make satisfactory progress in their programs of study, Selective Service officials said. However, young men who entered school for the first time this summer and those who enroll as freshmen this fall will not qualify for student deferments if the pending changes to the Selective Service Act are passed by Congress. The House has completed action on the bill and final Senate action is expected in September.

Dr. Curtis W. Tarr, Selective Service Director, said: "Few incoming freshmen students are likely to be inducted in the near future because of the student deferment phaseout. Of the 1,034,000 incoming freshmen males estimated by the Office of Education, approximately 80 per cent are 18 years old and only 20 per cent are 19 years of age or older. The 18 year olds will receive their lottery numbers in 1972, and they will not be subject to induction until 1973, when draft calls should be low. The 19 year old freshmen

received their lottery numbers August 5 of this year and will be subject to induction next year; at least 1/2 should have high enough lottery numbers to preclude their induction. Of those remaining, approximately 50 per cent will be disqualified on mental, moral or physical grounds. Or have held deferments. In this unlikely event, Selective Service officials believe that manpower requirements of the Department of Defense probably could be met by inducting those young men who have recently dropped deferments because they graduated, dropped out of school, or changed their occupations. Recent college graduates or dropouts would make up the bulk of inductions, the officials said. The officials added that cancellations of deferments probably would not be necessary nor would it be necessary to call those who have passed into the second priority selection group.

Currently, there are approximately six million young men under age 35 with deferments. Approximately 500,000 of these normally lose their deferments during a 12-month period. The largest groups of deferred men are those who have received fatherhood, occupational or student

Student Union Board Plans Higher Quality For Concerts

With the transition of funds for general lectures from the Student Council to the Student Union Board last spring, a new approach is being taken. Unlike last year when admission was seldom charged, all general lectures concerts will have an admission fee. Students with a valid UMR ID will pay \$1.50 per concert with a maximum of two people per ID...making a total charge of \$3.00. Those people without ID's will be charged \$3.00 apiece. No reserved tickets will be sold, and refunds will be kept to a minimum for obvious reasons. Tickets will be sold approximately one week in advance in the coat room of the Student Union, and we URGE you to buy your tickets then to save time and confusion at the gate before the concert.

The reasons for an admission fee are as follows: numerous complaints were registered (mostly verbal) about the

quality of groups last year. We hope that the net take per show will help cover our overhead expenses (gym, campus cops, ect.), and part of the groups fee. If this is accomplished then the remaining money will be added to the general lecture fund and hopefully by next semester we can move up to a better quality group. Many people also though last year there should be an admission fee, especially for the nonstudents attending!!

DID YOU KNOW THAT:

1. most large universities charge at least \$3.00 per student per concert?

2. groups like Black Sabbath, Bread, Chicago, ect. are charging from \$10,000 to \$30,000 or 75 per cent of the gate per show?!!! If the gate exceeds their minimum fee.

3. that UMR has at present

only approximately \$10,000 to work with for the fall semester? That right now the spring semester will hold around \$8,000 for general lectures (unless the new policy works!)

The Student Union Board desires comments on this policy, whether they be positive or negative...just be sure to back your statements!!! If the opposition becomes too strong the policy will be dropped and so will the quality of groups presented, not out of spite but because we will have no alternative. Give this serious thought, make a decision, and remember that UMR's potential in everything, including concerts, lies in your hands.

On The Inside

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Do You Need Financial Aid?

Attention to all organizations seeking financial aid from the Student Council!! Appropriation forms are available in the student council office and must be returned by October 15.

Student Union

The Lawyer

Movie Times: 4:00 and 6:30

Barry Newman zestfully portrays a brilliant, irreverent and uninhibited lawyer in this fictionalized version of the 1954 controversial Sam Sheppard murder trial in Cleveland. The film details with crisp dialogue the prejudices of the jury (because of advance newspaper and TV publicity), the complicated investigation, a graphic account of what probably happened the night of the murder, the actual trial, the sentencing and the re-trial. Newman making his screen debut is "sharp-talking, sharp dressing, ambitious and an irritant to the locals, but to us a very engaging cat." With Barry Newman and Diana Muldaur.

CAMPUS ROUND-UP

It's happening right now in the Student Union Ballroom. There are exhibits from a majority of the organizations on campus, and they'll tell you anything you want to know about their organization. The Round-up goes from 3:00-7:00 p.m. today (Wed., Sept. 22).

ALL SCHOOL MIXER:

Sat., Oct. 2 (The Big Day)
Dance: 1-5 p.m. in the S. U. Ballroom with "Comic Book Society." Dress is casual.

Concert: 6:30-8:30 p.m. in the Multi-Purpose Building with "Crow." Admission price is \$1.50 with U.M.R. I.D. Limit of two per I.D. Admission without I.D. is \$3.

Dance: 9 p.m.-1 a.m. in S. U. Ballroom with "Common Ground." Dress is casual.

RAP SESSION WITH CHANCELLOR BAKER

Meet the Chancellor at an open Rap Session on Tuesday, September 28 at 3:30 p.m. in the Student Union Ballroom. Dean Ponder of Student Services will also be on hand to answer questions and Mr. Bill Atchley, Dean of Faculties.

ALL GIRLS MIXER

There will be an all girl's mixer September 28 at 8 p.m. in the Student Union Ballroom. All girl's organizations on campus will be represented. Freshmen are welcome.

Union Board Applications

Applications are still available for the Student Union Board Committees. The committees are as follows: Social, Recreational, Publicity, Hospitality, Fine Arts, and

Special Events. The applications are available at the Student Union Candy Counter and in Rm 212. All students are eligible. Come and sign up!!

F.B. Night Report

A communist newsdealer was hauled into the station by one of Rolla's policemen for peddling pornography.

"But you're wrong," said the communist. "There aren't dirty pictures!"

Selection one, the cop said, "Do you mean to tell me this

isn't a dirty picture?"

The communist shrugged, "Don't be so square, man. Haven't you ever seen five people in love before?"

No man is completely worthless. He can always serve as a horrible example.

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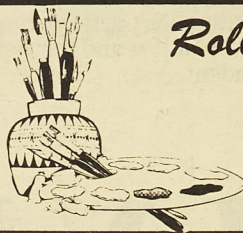
Alex's Pizza Palace

Alex's Pizza Palace is a restaurant you will find very popular with the UMR student body. They feature Pizza that will appeal to the most discriminating appetite. Cleanliness prevails throughout the kitchen and dining area and every precaution is taken to see that you get food prepared under the most sanitary conditions.

Enjoy yourself, please your friends or entertain business connections at Alex's Pizza Palace.

Faultless service and excellent selection are yours when you dine at "ALEX's." We suggest that for a real dining pleasure you visit Alex's Pizza Palace often. The address is 122 W. 8th Street in Rolla. Open 4 p.m. till 2 a.m. seven days a week. Call 364-2669 for immediate delivery to your door.

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THE PASSION OF ANNA

TUESDAY, OCTOBER 19TH

THE DAMNED

DIRK BOGARDE

INGRID THULIN

HELMUT GRIEM

TECHNICOLOR

TUESDAY, NOVEMBER 16TH

Color by DeLuxe

THE FOX

Between Ellen

and Jill came Paul...

SANDY DENNIS-KEIR DULLEA

ANNE HEYWOOD

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CC-51

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Honors Requirements Discussed By Faculty

The faculty held its first meeting of the school year September 13. The first item on their agenda was the election of representatives from the various departments to the eight faculty committees. The results of the election are to be announced at a later date.

Next in the faculties order of business was the election of a Vice Chairman. Dr. William Andrews was nominated and voted in by acclamation.

One of the topics discussed that pertains to the students here at U.M.R. was the proposal to change the requirements for receiving honors in getting a degree. Under the present system those students who graduate with a 3.00 or better are granted highest honors and those who graduate with a 2.75-3.00 receive honors. Dr. Fuller went on to explain that approximately 50 per cent of U.M.R. students graduate with honors and that there was no distinction between the exceptional students and those who just pulled the grades.

In other words, the 3.90 student receives the same honor as the 3.00 student. Under Dr. Fuller's proposal a student graduating with a 3.90 or better receives the honor of Summa

Cum Laude, 3.70 or better receives Magna Cum Laude and 3.50 receives Cum Laude. Another aspect of the proposal is that those students receiving these honors will have the honor inscribed on their diplomas and their names under the appropriate honor on the commencement program. The proposal was referred to the Academic Standards Committee and will be in effect for graduation commencement this spring.

Personally I feel Dr. Fuller's proposal is a good one, with the exception that it zaps the students who were striving for honors under the old system. Certainly the 3.3 or 3.5 student is going to feel he's getting the thumbscrews. I think that if the faculty wants to honor these exceptional students, fine; but shouldn't they still honor those who are affected by the change?

The final topic discussed was the University Council. The council would be composed of students and members of the faculty and their purpose would be to establish communication between the two parties. Unfortunately however, the topic was tabled until the next meeting.

By Thomas P. Roth

Student Council News

The Student Council met September 14 in the Student Union. One of the first things done at the meeting was the organization of the committees and their appropriate chairmen. These are:

| | |
|-------------------------|-------------|
| Constitution | Leidwanger |
| Academic Affairs | Moll |
| Faculty Evaluation | Bourne |
| Campus Improvement | Black |
| E - Week | Visintainer |
| D - Week | Logston |
| Publicity | Dicius |
| Referendum | Waplehorst |
| High School Recruitment | Kostelnik |
| Bitch | Frossard |
| Cheerleaders | Akers |
| Appropriations | Book |

Mr. Louis Mosss, Director of Student Personnel, gave an informative talk on the U.M.R. Blood Drive. He discussed the various activities of the Red Cross in Phelps County and the importance of U.M.R.'s students to the Red Cross. He explained that Phelps County couldn't possibly reach their quota without the help of the students. Mr. Moss urged all the members of Student Council to inform their colleagues of this worthy cause. Finally, he asked the Student Council, if it were feasible to set aside two hundred dollars for future U.M.R. Blood Drives. The purpose of this money would be to cover the cost of the various snacks offered to the student's who

give blood. The Student Council appropriated the money.

Al Visintainer, Chairman of E - Week Committee and Mike Chiles, both from the Citizen's United to Restore the Environment organization,, combined their efforts to get Student Council to pass a resolution designed to ask U.M.R. to purchase recycled paper. The resolution was passed by student Council and the form of the resolution was as follows: We, the Student Council, recognizing that a technical university should be a leader in solutions to environmental problems, do hereby urge that the University of Missouri at Rolla purchase, whenever technically feasible, recycled paper and other products. In particular we urge that the Public Information Office use recycled paper in its printing and publishing operations.

Alan Visintainer
Mike Chiles

Student Council President, Jeff Corklan, urged members to go to their organizations and ask students to apply for a position on the Academic Council. The Academic Council is a committee of the faculty. The students elected to serve on the committee would have the right of speech but no vote on the issues brought forth through the Academic Council.

Applications for positions can be picked up Friday, September 24, at the Student Council Office in the Student Union.

The Student Council proposal for the selection of undergraduates to serve on the Academic Council is as follows:

1. Publicity would go out and applications for the positions would be taken.

2. The Student Council Executive Council, and the Student Council faculty advisors would act as a Screening Committee and would nominate no fewer than three times the number of seats available on the Academic Council (at this time, that would mean 15).

3. A student who applies and is not nominated by the Steering Committee can still get on the ballot by petitioning and attaining the signatures of twenty Student Council members.

4. A resume of each nominee will be prepared by the Steering Committee.

5. The Student Council would vote for the number of seats available (in this case, five), and three-fourths of the Council would be needed for ratification of any member.

Student must be here for entire 1971-2 school year.

New Department Chairmen And Research Directors Announced

Chancellor Merl Baker of the University of Missouri-Rolla has announced the appointment of department chairmen and directors of research units for the present academic year.

Department chairmen are as follows:

School of Engineering: Chemical engineering, Dr. Mailland R. Strunk; civil engineering, Dr. Joseph H. Senne; electrical engineering, Dr. J. Robert Betten; engineering management, Dr. G. Raymond Cuthbertson (acting); engineering mechanics, Dr. Peter G. Hansen; mechanical and aerospace engineering, Dr. Thomas R. Faucett.

College of Arts and Sciences: Chemistry, Dr. William H. Webb; computer science, Dr. Billy Gillett; humanities, Dr. Jim C. Pogue; mathematics, Dr. Glen Haddock; physics, Dr. Laird Scheerer; geology and geophysics, Dr. Alfred C. Spreng (acting); social sciences, Dr. Marvin R. Cain.

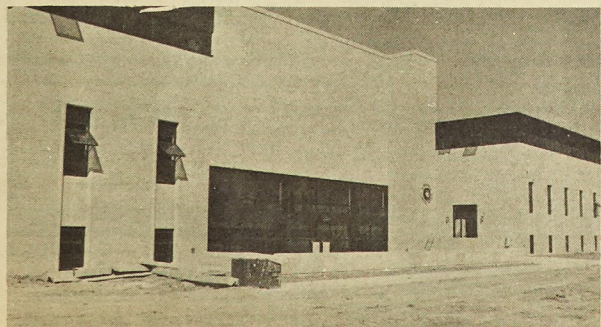
School of Mines and Metallurgy: Ceramic engineering, Dr. Robert E.

Moore; metallurgical and nuclear engineering, Dr. Harry W. Weart; mining, petroleum and geological engineering, Dr. Nolan Aughenbaugh.

Professor Dewey Allgood is chairman of the department of physical education. Col. Vernon T. Loesing is chairman of military science-Army and Lt. Col. Madison Daily is chairman of military science-Air Force.

Directors of research units are:

Environmental Health Research Center, Dr. Sotirios G. Grigoropoulos; Electronics Research Center, Dr. J. Robert Betten (acting); Industrial Research Center, Dr. Gordon E. Weiss (acting); Geophysical Observatory, Dr. Reinhard Frohlich; Water Resources Research Center, Dr. Paul D. Proctor; Rock Mechanics and Explosives Research Center, Dr. G. B. Clark; Graduate Center for Materials Research (Space Sciences Research Center), Dr. William James; Graduate Center for Cloud Physics Research (Space Sciences Research Center), Dr. James L. Kassner.



New Math-Computer Science Building to be finished soon.

More News & Views



The Missouri MINER
UNIVERSITY OF MISSOURI - ROLLA



WEDNESDAY SEPTEMBER 22, 1971

Air Force Band Performs At UMR

By Deb Williams

The United States Air Force Band and The Singing Sergeants have the distinction of being the world's most

The band, who is noted for its excellence, gave a marvelous performance playing music pleasing to persons of all ages. They played numbers like Orpheus in the Underground,

remarkable band and gave several ovations. In response, the band played some truly American songs -- Stars and Stripes Forever and America the Beautiful. The impact of



traveled musical organization. They have flown thousands of hours and have toured extensively abroad. Last Sunday, September 19, they performed before a capacity crowd in the Multi-Purpose Building.

Barnum and Bailey's Favorite, and the Footlifter March. The singing Sergeants sang hits of the Carpenter's arranged in a delightful musical portrait.

At the close of the concert, the crowd reacted to this

these songs and others within the concert will long be remembered in the minds of those who were fortunate enough to hear the United States Air Force Band perform in concert.

Yours-Theirs - Ours

EDITORIAL OPINION

More Concerning Student Parking

By Mike Barbaclia

Although the enrolment has decreased on the Rolla campus for the past few years, the number of Miners possessing methods of transportation to and from classes has increased considerably. Many problems have come up concerning available parking facilities but, of greater concern are the questions that have been brought up by the students dealing with the methods of operation of the University Police Department. Mr. Kelly E. Gibbons, Chief of the University Police Department, has had trouble getting his ideas across to the campus during the first few weeks of school. Because of this, countless tickets have resulted already and many students are less than happy about the impending situation.

Recently the Board of Curators consented to the idea of a paid parking system which, in Mr. Gibbons' words, would amount to nothing more than a "token fee." However, due to the wage-price freeze, for the moment there is no charge for student parking lots. Yet students are being ticketed for using these lots, the reason for this being their not having a

registration sticker on the vehicle and also the required permit. To obtain one such permit, a person must present an application and have it consented by the University Police. Mr. Gibbons would like it made clear that there are still numerous spots available, any student being eligible to apply for these spaces. When asked whether the student would be made to pay for this privilege when the price freeze ended, Mr. Gibbons reply was that the student would be free to choose if he wanted to keep the place or not.

The controversy over the ticketing of bicycles was another question that has been brought up to Mr. Gibbons' attention recently. When asked why these vehicles were being cited for violations, Mr. Gibbons stated that the University Police Department "has never ticketed a bicycle on campus" and that what was most likely issued was only a warning. So if you think you got a ticket on your bike, you might look again cause it may be merely a warning notice. So, nothing being changed, the students still remain at odds over many points with the University Police.

Reactions To GOOD SEED Poll

FRANK CAPEK: MISINTERPRETED OR MISGUIDED

By Dwight Deardevf

The Miner recently interviewed Frank Capek in connection with the Good Seed's Worst Teacher Poll in which he ranked second only to the much renowned Henry Hotz. Some very provocative but contradicting points were raised in this interview and subsequent interviews with administrative personnel and students.

In Mr. Capek's interview he felt that the award was unjustified and did not seem overly concerned about it. When asked the "why" for his students presenting him with this special distinction, he replied that civil engineers in general regarded surveying as subprofessional. Thus, "the civil engineers don't feel they are going to be doing surveying. But, they are going to be responsible for it and if you haven't learned it you are going to be hurting." In Mr. Capek's view then the main problem is with the student's apathy for advanced surveying.

When encountered with the subject of improvements within this year's course or teaching approaches this fall, he mentioned that he planned to delete his usual test covering the first semester surveying course. This test has been a source of ill feelings from the students in

the recurring past. Mr. Capek maintained its inclusion in the grounds that he voluntarily dropped the low test score and that this test enabled him to give direction to the C. E. 120 course.

Mr. Capek is defended by the chairman of the Civil Engineering Department, Dr. Senne, as being a very knowledgeable person of surveying with field experience and interest in the students. He cited extraordinary reports from city and municipal authorities on Mr. Capek's performance in connection with consulting contracts. Dr. Senne was also quick to point out that Mr. Capek's interest in students extended beyond the civil engineering department, in particular, his chancellorship of Lambda Chi Alpha fraternity.

He did admit, however that a problem existed but dismissed it as one of communication between Capek and the students. He further pointed out that Mr. Capek had acquired a stigma of being less than a fantastic instructor. Dr. Senne felt as a result of this that the students had lost their objectivity.

Finally, I went to the students to determine why nearly 15 per cent of their replies to the campus wide poll deemed Mr. Capek as the worst teacher that they had encountered at UMR, when he taught a course almost exclusively taken by C.E.S. There were 73 votes for Mr.

Capek from the 500 some replies to the poll. I interviewed 43 C.E.s, mostly juniors and seniors, all of which had endured or were enduring C.E. 102. 97 per cent replied affirmatively when asked if they felt the award was justified. 79 per cent had heard about Mr. Capek before they enrolled in EC.E. 102 and were biased to a degree, but felt that most of the criticisms were well grounded. The most recurring criticisms from the 43 were tardiness in returning homework, excessively long exams over material not covered in the lectures, too much B.S.ing during lectures, unplanned lectures ineffectively presented, and finally the whole course presenting an aura of aimlessness.

A few positive points were brought out, however. All but one of the students that mentioned final grades felt that they received fair treatment. The students presently enrolled in his classes felt that the quantity of homework to date was more reasonably assigned but still was not adequately covered through lectures before the assignment. Finally, the best point that was brought out was that 14 per cent of the students presently enrolled in his course felt he was trying to beat the image but still lacked something.

There is definitely lack of communication here when the (Continued on Page 5)

NOTICE

Any person (male or female) who is interested in working for the Missouri MINER as a staff member or writer is invited to apply in person at the MINER office, Room 204, Building T-14, located on State Street. Office hours - Monday through Friday, 1 to 5 p.m.

THE MISSOURI MINER

UNIVERSITY OF MISSOURI - ROLLA

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THE INNOCENT BYSTANDER

BY ARTHUR HOPPE

"Rising corporate profits are good for the average man and are needed more than ever by the poor" -- Vice President Agnew, addressing the National Governors Conference.

"Good news, Maude! Good news!" Jud Joad's breath came raspingly as he negotiated the last of the 120 steps leading to the Joads' fourth-floor, cold-water walk-up on Clancy street.

"Oh, Jud," cried Maude, clapping her wrinkled hands together like a young girl. "The landlord -- he's going to fix the toilet?"

"Better'n that," said Jud, easing himself down on a rickety kitchen chair and spreading out a day-old newspaper. "It says here where General Motors is looking forward to knocking down an extra billion or two in the current fiscal year."

"Oh," said Maude. "Well, I'm right happy for the General. But what's it got to do with us?"

"What's good for the rich is good for the poor. The Vice President says so himself. What us poor folks need more'n ever, he says, is rising corporate profits."

"We need what?"

"Pay attention, Maude. It's called the old Trickle Down Theory. Now I been fighting poverty man and boy for nigh on 60 years. And if'n there's one thing rich folk believe in with all their hearts, it's that their riches are going to trickle down on us poor folk."

"How's it work, Jud?"

"Well, now, Maude, you know I've been hankering to be a night watchman."

"And a good one you'd be, Jud, the way you like watching things. Besides, you been sleeping poorly lately."

"Only I can't find a job. But if'n the fellow who runs General Motors can make a few more billion for the company by firing some of the help, shoddyding up the merchandise and raising the prices, why then the company's going to be mighty grateful. And they're going to give him a big bonus. Maybe half a million dollars. And what's he going to do with it? He's going to buy himself a great big shiny old yacht."

"How's that going to help us, Jud?"

"Wait, now. You forgot about the fellow who sells him the yacht. He's going to make maybe \$1,000 on the deal. So he's going to buy this big estate in the country. And the real estzte man is going to make \$10,000 and put in that swimming pool his wife's always wanted. And the swimming pool

man, he's going to make a thousand or two and buy a new car from General Motors. And... Well, you can see how it goes."

"My, Jud! Yachts, estates, swimming pools, fancy cars... But how does it all trickle down on us. Seems like the rich just keep getting richer."

"That's right, Maude. Like the fellow says, 'The rich get richer and the poor get madder.' And the madder the poor get, the more they want what the rich folks got. So the Vice President's right: the more the rich get, the more they'll need me around nights to watch the things they got."

"Well, I don't know, Jud. Seems like a long way 'round just to get you a job."

"You got a better idea, Maude?"

Maude was thoughtful for a moment. "I know, Jud!" she finally cried triumphantly. "Why don't they start with us for a change and trickle up?"

NOTICE

Got a problem? Want to make a comment on the burning issues of today? Just feeling down and want someone to write to who'll read your letter? Drop a line to "Dear Balthazar," in care of the Missouri Miner.

Give A Damn!

By Sidney Birchfield

Last Friday, the Missouri Miner held a joint workshop with the Rolla High Crowler on matters of Journalism in an honest effort to improve our newspapers. Experts and authorities present were Miss Liz Barnes, adviser to the Stephens Life; John Geldmacher, Director of the Missouri College Newspaper Association; and Dr. Robert P. Knight, Director of the Missouri Interscholastic Press Association.

I feel that it is of importance that all UMR Miners know what went on in this day-long session. Firstly, because our authorities were pros in the field of journalism; we, being the ignorant engineers that we are, were presented with the finer points of technical journalism; e.g., how to write a news story objectively, use of complete introductory clauses, etc. Quite frankly, though these attempts at fine journalism were well intended, they did not appeal to the Missouri Miner staff (a personal observation).

The Missouri Miner staff is by no means ungrateful and unreceptive, but the lines of fine journalism are not what the paper has been geared to. In defense of my stand on "lesser" journalism, I will cite a few examples of our "lack of finesse".

We were informed that by putting the news concerning a general lecture on the front page, that we were giving free advertising—definitely a no no! News stories should have no opinion whatsoever—meaning that a story cannot be written by a person knowledgeable of the subject because they would be biased in its presentation. You are to put ignorant people on news stories. Finally, the front page should be strictly straight out news. No articles like the Zane White interview, the Dick Ichord Fund—but only news like the latest ruling by the Board of Curators.

In essence, we appreciate the attempts of these people and we will utilize ideas concerning style, layout, etc.; however, we will not sacrifice our integrity and students' interest. So...at least for another year the students of UMR will have to put up with our journalism fiasco.

Letter to the Editor

Mr. Roger Ellis
Editor
THE MISSOURI MINER

Dear Roger:

As a matter of expanding understanding as to why construction of the University Center was scheduled as it was, the following may be of interest:

The bonded indebtedness portion of the facility's \$2,185,000 cost for Phase I enjoys a guarantee of a HUD subsidy for interest costs in excess of three per cent. In order to receive this important support, HUD required that the balance of cash needed be on hand prior to letting bids. That fact determined the date bids could be let, rather than caprice on anyone's part.

The cash difference between the student bonded indebtedness and the amount required to start Phase I came not only from alumni, but from faculty and staff, Rolla businessmen, corporations and friends.

In addition to the cash balance required for Phase I, this office now has recorded in excess of a half million dollars in pledges toward completing the Center. We are soliciting all of the University's friends for gifts to assure the Center's completion on schedule.

Your continued support of the Center project and influence on its behalf are most sincerely appreciated.

Warmest
Bob E. Sutton
Director

GOOD SEED Poll

(Continued from Page 4)
students and instructors are this far apart in their appraisal of the course and its difficulties. The purpose of this article has been to bring light the circumstances which led to Mr. Capek being labeled as "2nd worst instructor" by the Good Seed; and to also commend Mr. Capek for his actions

in recognizing that a problem does exist and for his present efforts to improve his course. For what is the purpose of teaching other than to impart knowledge to the students?

The opinions of this article are my own and the news staff's. They do not necessarily reflect the attitudes of the rest of the Missouri Miner Staff.

NOTICE

Any person (male or female) who is interested in working for the Missouri MINER as a staff member or writer is invited to apply in person at the MINER office, Room 204, Building T-14, located on State Street. Office hours - Monday through Friday, 1 to 5 p.m.

NOTICE

Missouri Industry Day
Sept. 28, 1971. Multi Purpose Building.

NOTICE

All-School Mixer October 2, 1971.

Signs Of The Times . . .

PRESIDENTIAL REPORT CARD

NAME Richard M. Nixon

| | |
|------------------------------|------|
| PEACE IN INDOCHINA | F |
| PEACE ON CAMPUS | F |
| HEALTH, EDUCATION, WELFARE | F |
| THE CITIES | F |
| THE ENVIRONMENT | F |
| THE ECONOMY | F |
| SUPREME COURT APPOINTMENTS | F, F |
| ACHIEVEMENT BASED ON ABILITY | B- |

Dear Balthazar

Dear Balthazar,

It is the feeling of several of the females on this campus that not only the males are horny! Help, it's really depressing when there's so many men around.

Some Coeds (and not even sweatshogs)

Dear Some Not Sweatshogs,

What can I say. Come on Miners, go out there and get some.

Dear Balthazar,

While walking past the UMR power plant coal pile the other day, I could not help but notice the pleasant aroma of Hydrogen Sulfide exuding from the heap. I think that those people over at the power plant should be commended—perfumed coal is the perfect way to combat air pollution!

Archanelo Q.E.D. Spimoni, III,
ESQ

Dear Arch,

If you think that's anything, look up. The company that sends us the coal is presently being summoned to court for polluting streams near Columbia, the source of our mighty coal.

P.S. Smokestacks were not built so high to look majestic.

Dear Balthazar,

I have got this crude Neanderthal type for one of my courses this semester. He has the mentality of an empty Ripple bottle, and probably couldn't pour sand out of a boot with the directions written on the insole. What can I do?

A Snowed Student

Dear ASS,

You can get a drop slip. If you need the course this semester don't try to talk to the prof. Drop a note in the Student Council Bitch Committee box in the Student Council or talk to your Student Council representative. If you want, you may stop by the Student Council Office on the second floor of the Student Union. I'm sure the guys there would be happy to listen to your problems.

Dear Bal,

I jest taught that I wood drop yer a line or too und let you all them there whoopee frieks no that they'd better not smoke any of that there LDO I jest got started lest yer when that there School of Minds were over, But i'm all reddy fer them comies this here hear. Why just the udder day i und 43 state troopers and 6 fed narcos done busted this one long-hair violater for smokin yhayt evill plant.

Humane Blight
Persecution Attorney

Rolley Area, USA

Dear Readers,

I don't know who wrote this, but I hope that he doesn't live around here. Such a tongue.

Dear Balthazar,

When will the yearbook be here? I have been asking around, but haven't gotten a straight answer yet.

Mike Zorkle

Dear Mike,

Quit asking the Heads and give me a chance. Due to a messup by the publisher, the book will not be here until the first week of November.

Dear Balthazar,

Allright, I've had it. Every time I try to get up to campus they start some more construction and I have to ask a student how to get through the mess. What can I do.

Meryle Baker

Dear Meryle,

Have your office moved to T-69. If you're real sneaky, well even if you're not sneaky, no one will probably ever know.

Confidential to Z. White from D.R.S.—24 in hand does not always equal a case.

Confidential to Sam—Try the female supine position next time.

What's The Scoop?

By Charles Laderoute

Two years ago this fall John Danforth, Attorney General, set the gears in motion for the 18 year-old vote in Missouri. At a meeting held in Jefferson City in October, representatives from all colleges and universities in the state met to set up a state-wide organization to collect signatures in a public petitioning drive to put the question of the vote on the floor of the Missouri legislature.

During the months to follow volunteers gave their time to get the needed number of signatures. By May of the next year more than twice as many persons had put their name on the petitions to bring the vote to the 18 year old. Quite ironic was the fact that to sign the petitions one had to be 21 years of age. This fact must have shown the 18 year-olds that the elders also believed that they should have the vote. But, also before any action could be taken in state legislature, the national government decided to take a stand. The outcome was that in the end, the 18 year-old was given the right to vote by a national constitutional amendment. Final decision took place this past summer when 11,400,000 new Americans were given the right to vote.

Why have I deliberated upon all of this? My reasons may be somewhat selfish. Two years ago I was a delegate from UMR to the Jefferson City meeting. At that time I was 21 years old and already had the right to vote. I was so in favor of the 18 year-old vote however, that I

wanted to help get it passed. Another student and I spent the months from October thru May talking to people and pounding the pavement to get signatures on our petitions. We met our quotas; to no avail though because of the national legislation that had started. Now, I wonder if it was all worth it. The statistics I have seen are somewhat disheartening. The cold facts are that 18 year-old citizens are not registering to vote! Why? That is a good question when one thinks of all the demands students have made, the changes that the young want to bring about, or the bitches exclaimed by the young.

has been the general problem of who may vote and where they can vote. This has caused many problems in those communities where a college or university is located. The locals feel a little funny in the tummy when they realize that they are outnumbered 2 to 1 by students. The thought of letting all of those carefree youths taking over a city to them is insane. And so, the hassle started. In a matter of months the federal government told the states to choose the manner they wished to use in transient (student) cases.

The problem soon hit Missouri and the founder of the states 18 year old vote came to the rescue. After a lot of discussion and deliberation, Mr. Danforth cited a 1934 Decision by the St. Louis Court of Appeals. According to the St. Louis

Post Dispatch, Mr. Danforth stated that "if students abandoned their former residences and entered school with the 'fixed intention' of not returning to their previous homes they ought not to be disenfranchised until they acquired a residence after graduation."

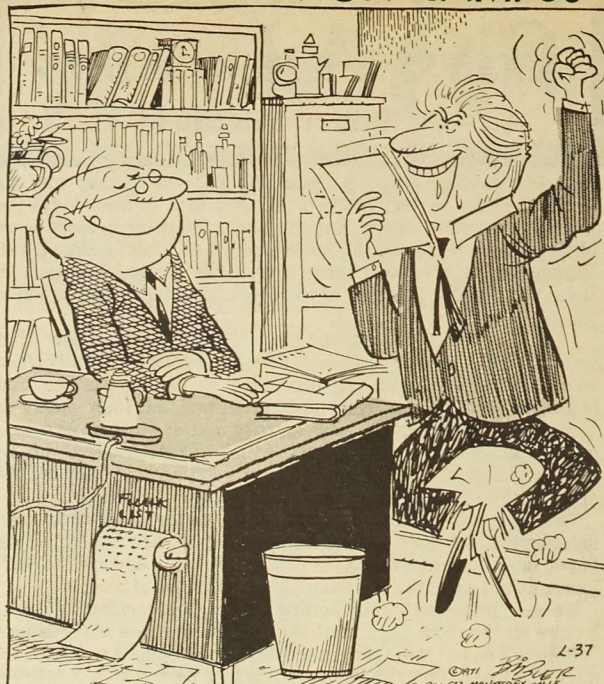
The decision has now been made. Aside from residency requirements, most of those young people between the age of 18 and 21 can now vote. The process of registering takes about 15 minutes. Now that the right is there use it!

For those who may have questions on registering to vote in Rolla, there are two methods: (1) Go to the county courthouse and find out what is desired, or (2) take advantage of the new committee formed by the Student Council.

The new council committee will be working on the possibility of setting up voter tables at the Student Union and distributing literature on the enfranchisement of the 18-21 year-olds.

The extension of the right to vote to 18-year-olds was an acknowledgement by the older people of the United States that when one reaches the age of 18 he is old enough and informed enough to vote intelligently. The decision has been made about students. The right is there so why not take advantage of it?

LITTLE MAN ON CAMPUS



"A LITERARY MASTERPIECE --- I'VE NEVER IN MY LIFE SEEN A TEST WITH SO MANY AMBIGUOUS QUESTIONS."

CURE Recruits Members

CURE, Rolla's own community-campus ecology group is "here to stay" emphasized Al Visintainer, CURE's leader, in a recent interview. Citizens United to Restore the Environment, or CURE as it is better known, celebrates its second birthday this fall.

Founded by several Civil Engineering students, CURE now includes members from almost every department at UMR, as well as many local townspeople. "There is no simple cure," commented

Visintainer, "We need all kinds of people, all kinds of approaches."

Some of CURE's past efforts are already directly benefiting UMR students. More than 1000 miners were queried last year about their use of the Little Piney River. The results of this poll were important in influencing the Missouri Water Pollution Board for the first time in its history to revise a stream's water quality standards upward; preserving an important recreational area.

CURE members were instrumental in forcing a local trainer court operator to rebuild a sewage lagoon after the old one was proved to be a health hazard.

Dangerous longlasting chlorinated hydrocarbon pesticides (DDT and family) were voluntarily removed or not reordered by almost all Rolla merchants after CURE contacted them and advised them of acceptable substitutes. Water pollution surveys conducted in Rolla, have pinpointed hazardous drainage outlets and possible sources of contamination.

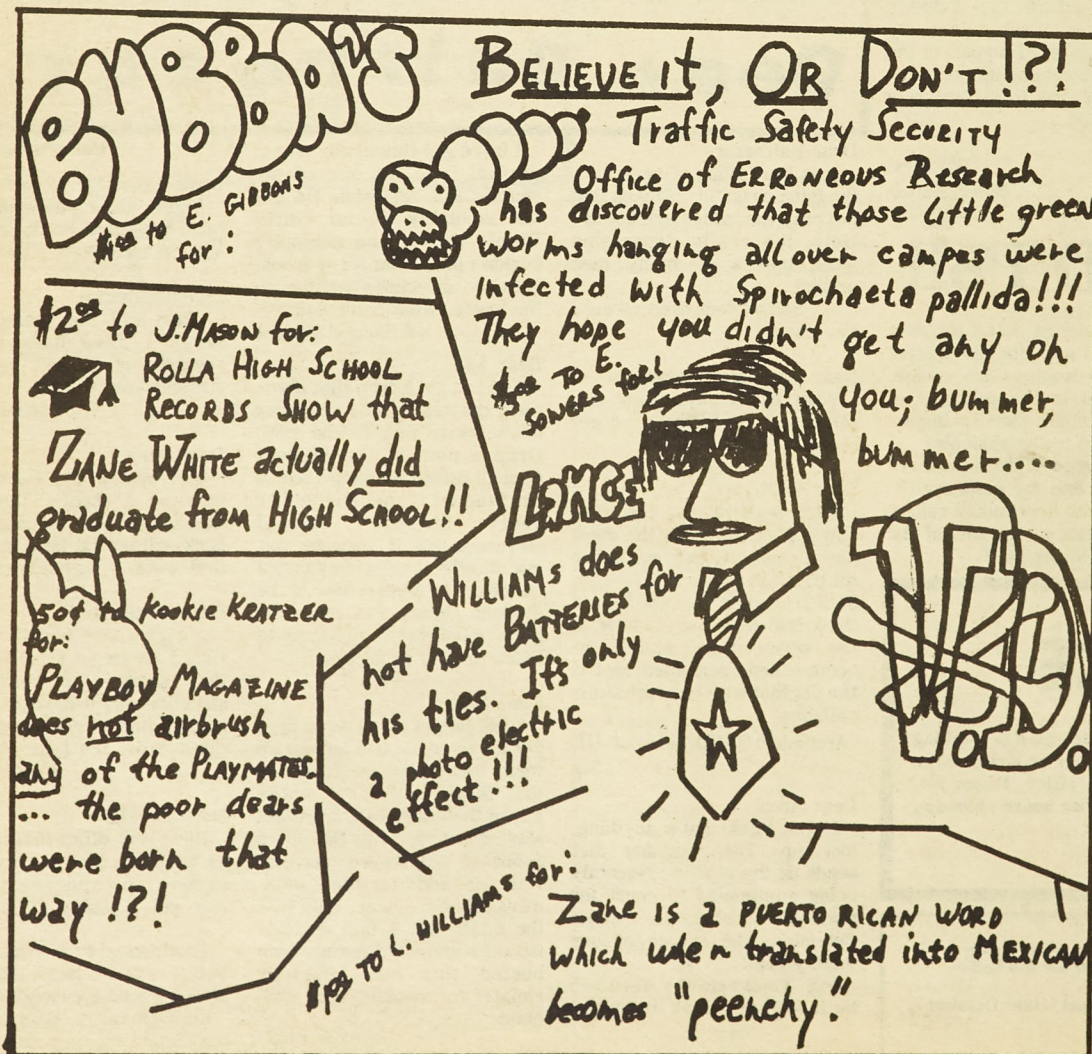
Two hundred and fifty wells in the Rolla area have also been tested for water purity in a voluntary program involving local residents. All of these activities have required relatively few members.

"Frankly, until now we haven't actively recruited new people to join CURE," commented Visintainer. "We've wanted to have all our present members actively involved in projects first."

This unorthodox policy is ending though. CURE's leaders have found that it takes more members for projects requiring political muscle.

An ordinance that would have banned the sale of DDT and related products languished in the Rolla City Council partly because of a lack of popular support. Looking for such support, CURE will have a recruiting table in front of the Student Union this week. All interested people are asked to drop by or call Al Visintainer at 364-8602 for more information.

BUBBA BROTHERS REPORT



THE ENVIRONMENT

All Hail The Bicycle!

QUESTION-- What's long, lightweight, two-wheeled, made of metal and rubber, runs on biological power, travels on paved streets or across country, does not pollute the air, provides exercise as well as transportation, and originated in 1816 as a type of hobby horse?

ANSWER-- The object we probably all thought of as a toy when we were kids, the bicycle.

SURPRISED? You shouldn't be. Bicycles are quickly becoming a popular form of transportation for the adult world, as well as kids. And why shouldn't they be?

Look at the economy. No fuel. Only a little oil for lubrication is needed. Repairs, which are seldom needed, can be made by anyone with only a few simple tools. And the power source creates healthful exercise and an excellent recreational opportunity for any sunny afternoon.

Doctors say our society is out of shape. What better way is there to tone up muscles or loose weight than by spending an afternoon cycling around the country, or even up and down the street?

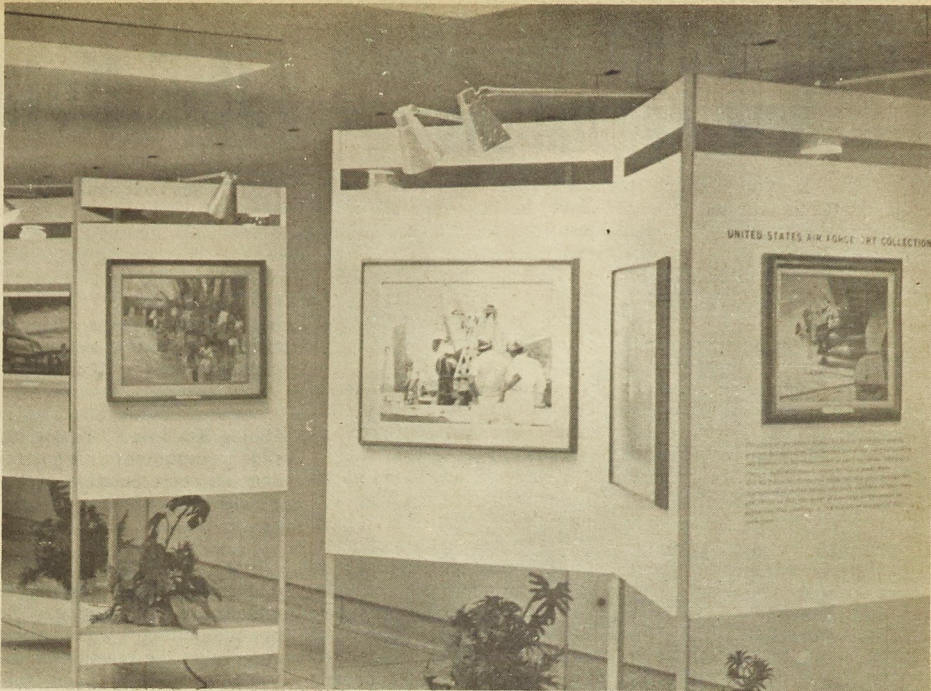
Any UMR student who leaves his house a half an hour before class so he can find a parking space could easily remedy his problem with pedals. Despite the recent ticketing of bicycles by the university police, (a problem which, incidentally, is occurring on other college campuses lately, due mostly to the popularity and use of bikes) there seems no better way to get close to the classroom and easily find someplace to park.

But suddenly the ecologically minded are using the bike as an alternative to the car or motorcycle. It's easy to see that the bicycle emits a very low level of pollutants, and in some cities where the inhabitants seldom see the sky, the bike could become the mode of travel. At least a \$500 bike is easier to visualize than the \$4,000 electric car. It might be a

novel sight to see a freeway crowded with cyclists in gray suits, with brief cases strapped to the fenders.

The idea of a bicycle commuter system sounds extremely far fetched, but does anyone remember New York during the transit strike when the Wallstreet Businessman, wishing to avoid the horrendous traffic jams, borrowed bikes and pedaled to the office?

The suggestion of our society turning into one of cyclists is of course impractical due to outside limiting factors, such as weather and distance, but the new wave of bicycle enthusiasts aren't concerned. They look to the "Toy" as a form of entertainment, exercise, and cheap, short range transportation, and as an excellent individual attempt to help prevent pollution.



The United States Air Force Art Collection on display in the lobby of the Multi-Purpose Building in conjunction with the Air Force Band and Singing Sergeants, which appeared Sunday. For story on the concert, see page 3.

Missouri Industrial Day

(Continued from Page 1)

Divisions (Emerson Electric Co.); St. Louis Department of Personnel.

Springfield: Litton Systems Inc. (Advanced Circuitry Division). ILLINOIS

Alton: Alton Box Board Co.; Olin Corp.

East St. Louis: Pfizer Inc.

Peoria: Caterpillar Tractor Co.

Wood River: Shell Oil Co.

KENTUCKY

Paducah: Union Carbide Corp.

C. E. Department Starts Environmental Course

With the increasing concern our society holds for the environment, the Civil Engineering Department has begun a new course with emphasis upon the causes and effects of pollution.

The new course, entitled "The Environmental Crisis: Pollution and Solutions," is a three hour lecture type class especially designed for non-civil engineering majors. It is being offered both this semester and again in the spring.

Emphasis of the course is being placed on all aspects of pollution, including air, water contamination, solid waste disposal, transport facilities, energy pollution, interactions within the ecosystem, and overpopulation, or people

pollution. The curriculum will include not only examples of the problems, but the study of systems and methods currently being used by science and industry to correct the situations many areas face. It is hoped that the course will not only present information, but raise

questions and develop answers concerning the environment.

Materials for the course have been collected by a blending together of other specialized courses within the civil engineering department, including public health engineering, solid waste management, air pollution abatement I, and urban and regional planning and design. There is no text book, but a set of notes especially prepared for the course coupled with outside articles on ecology.

The concept of team teaching is being utilized, with ten instructors from the civil department, each specializing in a certain aspect of ecology, conducting the class. Guest lecturers, with knowledge on special problems and solutions have been invited.

The team of instructors includes Drs. R.H. Clark, B.H. Green, S.G. Grigoropoulos, J.C. Huang, J.C. Jennett, D.E. Modesitt, K. Purushothaman, L.K. Sieck, J.K. Roberts and B.G. Wixson.

The Harmon Pro Forecast

Sunday, September 26

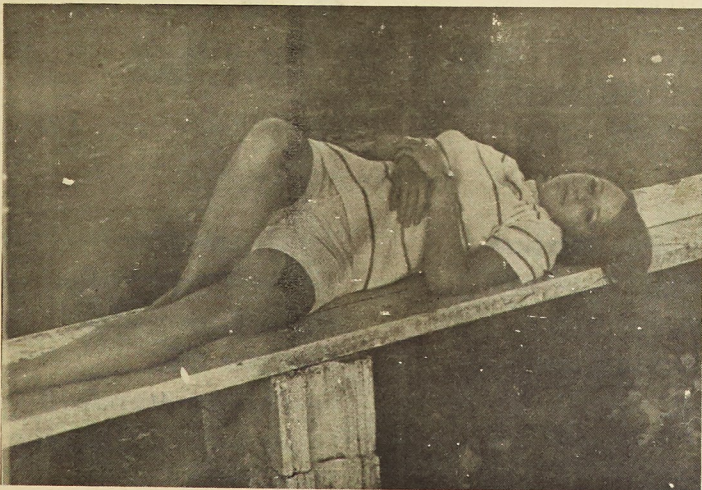
| | | | |
|----|---------------|----|-----------------|
| 24 | Baltimore | 23 | Cleveland |
| 28 | Cincinnati | 17 | Pittsburgh |
| 31 | Dallas | 14 | Philadelphia |
| 37 | Detroit | 17 | New England |
| 27 | Green Bay | 24 | Denver |
| 30 | Kansas City | 10 | Houston |
| 27 | Los Angeles | 23 | Atlanta |
| 31 | Miami | 20 | Buffalo |
| 23 | Minnesota | 10 | Chicago |
| 24 | San Diego | 13 | Oakland |
| 28 | San Francisco | 20 | New Orleans |
| 30 | Washington | 27 | New York Giants |

Monday, September 27

| | | | |
|----|-----------|----|---------------|
| 23 | St. Louis | 20 | New York Jets |
|----|-----------|----|---------------|

NOTICE

All-School Mixer October 2, 1971.



Linda Sez . . . Hey Miners



PACE, Inc.

Is Coming Sept. 28

YOU'LL WANT TO BE THERE

Placement Center Adopts New Regulations

If you expect to graduate this year and have not yet registered at the Placement Center, by all means do this at once so you will know what employer contacts will be available.

The biggest problem facing all students who expect to take campus interviews is the competition from others in getting on the schedule. The critical shortage of jobs has resulted in many campus visits being cancelled. Because of the extreme pressure for available openings on most employer interview schedules last spring, we adopted several new signup regulations which will be continued this fall.

1. No student is allowed to place any name on a schedule but his own.

2. You must offer the exact qualifications asked for by the employer on the signup sheet regarding the discipline, degree level, and citizenship.

3. On the first signup day for any schedule, morning entries will sign for only morning interviews, starting at 9:00 a.m.

4. Priority signups will be continued this fall. This system allows all students, after a thorough check of the complete list of employers planning to visit during the semester, to pick four in whom he is most strongly interested. He will be allowed to come in the day before the regular first signup day and get his name on the schedule by using the Priority System. His registration card will be punched to show use of

the system. When four punches show, he has used all of his priority signups for the balance of the semester.

5. If a schedule is completely filled by priority signups, a notice will be posted on the door of the Placement Center on the regular signup day.

6. If you take a priority signup and the employer cancels his visit, your priority will be refunded for later use.

7. When all spaces on an interview schedule are filled, our normal policy is to start a back up list of interested candidates.

If the employer decides to handle an additional schedule, the openings on this schedule will be filled in order of signature on the back up list. (If you are contactable by phone in a reasonable length of time, and-or the employer has not instructed contact only of certain degrees or date of graduation.)

The above seven items relate only to signup regulations and procedures. Future MINER issues will contain tips on job interviewing, letters of application, and resume preparation.

AIME Holds Meeting

AIME holds their first meeting.

The UMR student chapter of the society of Mining Engineers of the AIME held its first meeting of the year Tuesday, Sept. 14. Guest speaker for the evening was Mr. Joseph C. Arundale, liaison officer for the U. S. Bureau of Mines, who spoke on "Exotic Careers for Mining Engineers," basing his slide presentation on his term of duty as representative of the U.S. Bureau of Mines to the Congo.

Plans were made and a committee was named to organize a fall outing. The announcement was made concerning the meeting of the Southeast and St. Louis subsections of Mining Engineers, members of the AIME. In October at this meeting, students will be given the chance to express their views on becoming a Mining Engineer in a short speech. Plans for future meeting call for speakers representing both the coal and mineral industry to address the group at their monthly meetings. Any freshmen or new

students enrolled in Mining Engineering and interested in joining your professional society may contact Bill Beck at 364-4023.

Made In Japan

Glasphalt

Glasphalt, which uses glass as an aggregate in asphalt, has received international notice. Two visitors from Japan were on the University of Missouri-Rolla campus Wednesday (Sept. 15) to investigate the feasibility of using it in their country.

Suketo Nakayama, president of Nippon Parkeizing with offices in Hiroshima and Tokyo, and his son, Dr. Shigeru Nakayama, professor of science history at Tokyo University, conferred with Dr. Ward Malisch and Dr. Bobby Wixson and other UMR personnel. Drs. Malisch and Wixson are in charge of the glasphalt project.

The Japanese firm works with traffic authorities and the department of public works in production of such things as road signs and surfacing. Mr. Nakayama learned of the UMR project from an article, "Streets of Glass," written by Drs. Malisch, Wixson and Delbert Day and published in the July, 1970, issue of American City. He is interested in glasphalt because of its skid resistant qualities and utilization of solid wastes. If it is judged feasible for use in Japan, other technical experts from that country will come to the UMR campus for further study.

NOTICE

Students interested in varsity golf please see Coach Bud Mercier in the Athletic Department Office, Multi-Purpose Building, as soon as possible.

TOP HAT LOUNGE
Miners Hang Out
Michelob & Bottle Beer
Pizza
Above ABC Bowling Lanes
Downtown Rolla



OWNERS:
DON SPURLOCK
DENNIS FOSTER

WE CUT HAIR TO SATISFY YOU AT
**DOWNTOWN
BARBER SHOP**
803 PINE STREET

• RAZOR • THREE DOORS UP
CUTS FROM VERN'S

When Your Phone RINGS . . .

It May Be The Rolla Merchants
Gift Check Book
Program Calling—



OVER \$100 IN GIFTS,
MERCHANDISE &
SERVICES
FOR ONLY \$14⁹⁵

Diehl Montgomery Inc.
Jack & Eva's Sewing
John's Firestone
Scrub-N-Shine
Ron's Sinclair
H&S Drive-In (formerly A&W)
One One-Hr. Martinizing

John D's Restaurant
Crescent Restaurant
Carps Super Store
Hillcrest Big Star
Blades
Rolla Tire
Alex Pizza

Finch Jewelry
Kirby Co. of Rolla
Rolla Roller Rink
Campus Cue
Faulkners Standard
Lowe Portrait Studio
Tims Pizza

THIS IS NOT A DISCOUNT BOOK

EACH ITEM IS A GIFT!

"You Don't Have To Buy Something To Get Something"

GET OVER

\$100⁰⁰

In Gifts, Merchandise and Services

\$14⁹⁵

FOR ONLY

With A Gift Check Book

Each Item Is An Absolute Gift.

No Purchase Required . . .

Your Cost Is Only \$14.95

UMR Extends Research To Moon Sample

University of Missouri-Rolla research on noble gases in earth and meteorite specimens has revealed much about the history of the solar system. Now UMR researchers in noble gases will look at moon samples from the recent Apollo mission for more clues about the universe.

Dr. O. K. Manuel, associate professor of chemistry at UMR, was notified early this summer by the National Aeronautics and Space Administration of his selection as a principal investigator for lunar sample analysis at UMR. Following his selection, NASA granted \$17,000 to UMR for research on noble gases in the moon and will soon send moon rocks to the campus for the investigation.

According to Dr. Manuel, who has headed the UMR research team on noble gases for six years, a mass spectrometer will be used to analyze the atoms of noble gases in the lunar samples. The results will allow researchers to compare the history of the moon with the record of events previously found in meteorites and in the earth.

Noble gases, he says, are five extremely rare elements which exist as gases—Helium, Neon, Argon, Krypton and Xenon—generally do not combine with other elements to form compounds. For this reason, they are called noble.

"Because they are so extremely rare," Dr. Manuel says, "they are good subjects for information which indicates what happened in the universe eons ago."

According to Manuel, UMR's research team on noble gases recently found evidence confirming that the earth is about 4.6 billion years old in the discovery of the decay product of Iodine-129 in samples taken from a New Mexico gas well. Iodine-129 was present 4.6 billion years ago but decayed away in a very early period of the earth's existence. One prime objective of the work on lunar samples, Dr. Manuel says, will be a search for the decay product of Iodine-129 in the moon.

Students on the noble gas research team who will be involved in the moon sample work with Dr. Manuel include: Mrs. M. S. Boulos, 215 Nagogami Terrace, Richard Beaty, 1110 Bishop, and Vic Becker, 403 Walnut, all in Rolla; E. W. Hennecke, Gordonville, B. Srinivasan, Bombay, India and David Sinclair, Minneapolis, Minn. All are Ph.D. candidates. Mrs. Phyllis Johnson, 209 Hwy. 63 S. in Rolla, takes care of the typing and bookkeeping for the group.

ABORTION ? QUESTIONS ?

For Information and Referral Assistance Call
ABORTION INFORMATION
CENTER, INC.

(201) 868-3745
868-3746

9:00 A.M. to 7:00 P.M.
Monday to Saturday

UMR Explores Mine Disasters

The majority of coal mine casualties, many laymen believe, are caused by explosions. But Dr. Nolan Aughenbaugh, chairman of the University of Missouri-Rolla department of mining, petroleum and geological engineering, says that most underground coal mine accidents or fatalities are caused by failure of roofs in the mine tunnel.

To help avert accidents in underground coal mines caused by the caving in of the roofs, the Rolla campus is doing research under a new \$121,014 grant from the U.S. Bureau of Mines to the University of Missouri. The research centers around mines in the Eastern Coal District and draws its information from the Illinois Basin Coal Field. The University of Idaho has a similar grant from the bureau to conduct a study in the Western Coal District of the country. The projects are authorized under the Federal Coal Mine Health and Safety Act of 1969.

"Both government and industry are concerned," Dr. Aughenbaugh says, "because each year, men are killed in underground coal mine tunnels when the roofs give in. Injuries and fatalities resulting from failure of roofs in mines more than double those resulting from explosions."

In nearly every case, Dr. Aughenbaugh says, the layer just above the coal seam is shale. Miners excavate the coal up to the shale layer, which

becomes the roof of the mine tunnel. Shale, he says, has properties which cause it to be unstable, and therefore rather risky as a tunnel roof. UMR researchers are trying to find out what these unsafe properties are and what can be done to offset them.

Samples are being taken from coal mine roofs and other areas of the mines in the Illinois area and are brought back to the UMR laboratory for analysis. Under Dr. Aughenbaugh's direction, Peter Conroy, Ph.D. candidate, has conducted most of the sampling done to date from five Illinois mines. His work, coordinated with the Illinois Geological Survey, has provided the ground work for further research on the project. When Conroy returns to Harza Engineering Co. in Chicago this fall, where he is employed, he will continue work on the project along with the UMR researchers.

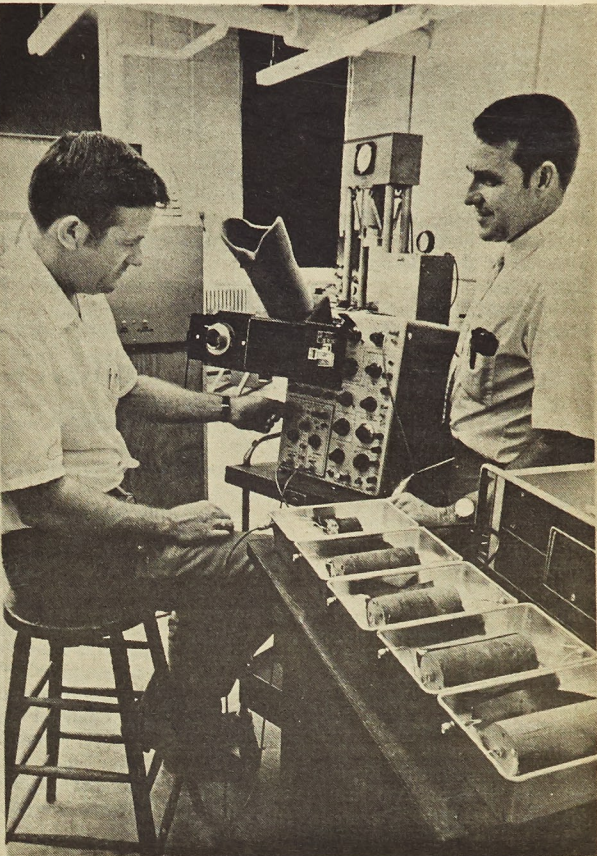
In the UMR laboratory, shale samples are undergoing tests which will hopefully reveal their unstable properties. Strength tests, thermal analysis, X-ray examinations and checks for water and clay content are among tests being made. The test, when analyzed, will hopefully give results which will lead to safer coal mine roofs by such corrective actions as applying protective coatings, controlling ventilation conditions or applying new extraction techniques.

Dr. Aughenbaugh says that UMR is involved in many research projects which may lead to greater safety in mines. These are going on both in the department of mining, petroleum and geological engineering and in the Rock Mechanics and Explosives Research Center. One project now proposed at UMR is a study

on shale coatings, which will be related to the project directed by Dr. Aughenbaugh.

In the two-year study, Dr. Aughenbaugh says, the first

phase will consist mainly of laboratory studies. The second phase will center around on-site investigations of coal mine roofs.



Dr. Nolan Aughenbaugh (right), chairman of the University of Missouri-Rolla department of mining, petroleum and geological engineering, and Peter Conroy, Ph.D. candidate, test and durability of shale samples by sonic measurements in a research project on the failure of roofs in coal mines.

NOTICE

Drop a line to "Dear Balthazar," in care of the Missouri Miner. Letters will be collected from the Miner box in the Student Union or at the Miner Office, Room 204, T-14.



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MINER SPORTS

RICK REMLEY, SPORTS EDITOR

Offensive Miscues Doom Miners

Mental errors proved to be the deciding factor last Saturday night when the Gorillas of Kansas State Teachers College blanked the Miners 20-0.

The rainy weather was an important factor in the game.

The Gorillas relied primarily on a grinding type of running attack led by fullback Steve Howard. Howard carried the

ball on 26 of the Gorillas' 66 rushing plays and rolled up 69 yards and one touchdown. When

the Gorillas needed short yardage, Howard got the call and usually muscled his way through the Miner's interior line.

The rainy weather contributed to the sloppy offensive play of both teams. Miner quarterback Pat Godwin had his troubles in the passing department. He had four picked off by the wary Gorilla secondary. Godwin completed only 1 of 10 passes and that was to wide receiver Bob Somerville in the Miner's first offensive series.

Godwin's replacement, sophomore Rick LaFollette, had no better luck as he threw two completions for nine yards and had one pass intercepted midway through the final period.

The Miners also lost two fumbles at crucial times in the game. Late in the first period, Freshman halfback Mike Joshua lost the ball deep in his own territory. The Miners failed to capitalize on a Gorilla fumble on the next series and KSTC went in to score on a one yard plunge by Howard.

The Miner defense did an outstanding job stopping the Gorillas on the whole. Three times the Golden Horde stopped KSTC less than 20 yards from

the goal line. Defensive halfback Jim White palyed an excellent game covering "White's Acres." He intercepted a Gorilla on his own 22 yard line and returned the ball



Jim White

41 yards before being hauled down.

One of the promising points of the game for the Miners came when sophomore Tim Holcer scampered 67 yards and set up one of the few Miner scoring threats.

Leslie Clark, the Miner punter also had a good night considering the field conditions. Clark punted six times with a 35 yard average to help get the Miners out of trouble.

Clark was kept busy since the Miner offense failed to execute all but one of their third down situations.

Miners Host Missouri Valley, Vikings Pose Aerial Threat

This Saturday the Miners open their home football schedule against the Missouri Valley Vikings. The Vikings come to UMR with an 0-1 record, having lost to the Washburn University Ichabods, 28-6.

The Vikings played well the first half of the Washburn game but the Mo Val defense slumped in the second period when the Ichabods racked up all 26 of their points.

Defense is expected to be the Vikings weakest point this Saturday, although the defensive unit will return eight lettermen. The three vacancies are filled with inexperienced sophomores, who could be a target of exploitation for Godwin and crew.

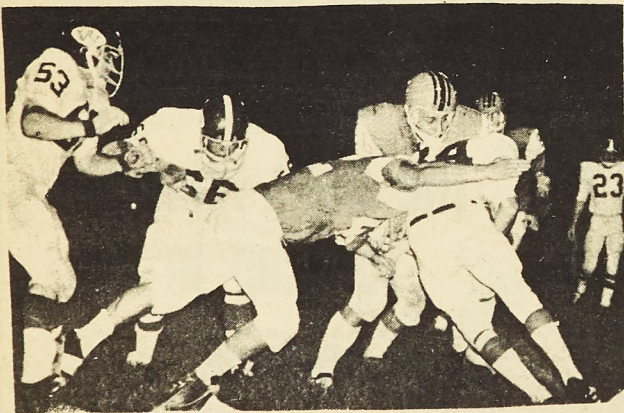
The Vikings will return nine of last year's offensive starters including wide receiver Dan Kratzer. Kratzer received Honorable Mention recognition on the NAIA All-American listings last season as a junior. Senior quarterback Bruce Ayers provided the other half of the Viking aerial threat last season, averaging 142 yards

per game and connecting for 13 touchdowns.

The Vikings also present a formidable rushing attack. Their three top running backs will be back again this season. Junior slotback Jim Roskelley was the Vikings second leading pass receiver last season as he combined with Ayers for 8 TD's. Junior running back Tony Chandler was chosen to the MCAU (Missouri Collegiate Athletic Union) All-Conference Team last season as he averaged 79 yards per game rushing.

The Miners will have to top Mo Val's Dewey Buck, a junior fullback, and the leading rusher for the Vikings last year, as he averaged 5.2 yards per carry.

The Vikings this season have upgraded their opposition, by joining the new Heart of American Conference. Mo Val captured the title in the MCAU last season with an 8-2 overall mark. Their only losses came at the hands of the Washburn Ichabods (23-15) and our own Missouri Miners (21-7).



Two Viking defensive backs haul down a Washburn U. runner.

Football League Standings

| League One | | | League Two | | |
|------------|---|---|------------|----|---|
| | W | L | | W | L |
| TEKE | 2 | 0 | KappaSig | 2 | 0 |
| BetaSig | 1 | 0 | A.Phi.A. | 2 | 0 |
| SigPi | 2 | 1 | Acacia | 1 | 0 |
| DeltaTau | 1 | 1 | Shamrock | 1 | 1 |
| LambdaChi | 1 | 1 | 59'ers | 0 | 1 |
| Campus | 0 | 2 | Engine | 00 | 2 |
| Mates | 0 | 2 | T.J. | 0 | 2 |

| League Three | | | League Four | | |
|--------------|---|---|-------------|---|---|
| | W | L | | W | L |
| PhiKap | 3 | 0 | DeltaSig | 3 | 0 |
| ThetaXi | 2 | 0 | SigTau | 2 | 1 |
| PiKA | 1 | 0 | SigNu | 1 | 1 |
| TechClub | 1 | 1 | SigEp | 1 | 1 |
| Prospectors | 0 | 2 | Triangle | 1 | 1 |
| K.A. | 0 | 2 | MRHA | 0 | 3 |
| ThetaChi | 0 | 2 | | | |

Upsets Dot Mural Scoreboard; Surprising TEKE Undefeated

This past weeks Intramural Football brought a few surprises with some minor upsets and many shutouts.

Monday night Sigma Pi put it together and routed Campus Club, 34-0. A. Phi A. blanked Shamrock, 20-0; while Phi Kap was bounding the Prospectors, 34-0. Sig Phi Epsilon edged by the Dorms, 13-6.

Tuesday's thriller was Delta Sig's over-time win against Sig Tau Gamma, 7-7. Delta Sig gained more yardage in the extra period to record the win. Sig Nu slipped by triangle, 6-0; and A.E. Pi edged Phi Kap, 14-13. Wesley coasted by Liahona, 30-0.

Wednesday night saw the biggest upset as T.K.E. surprised Lambda Chi, 16-14. TKE scored eight points in the closing minute for their second win. Kappa Sig ran over Engine Club, 56-0; and Tech Club eased by Kappa Alpha, 27-7. Delta Tau held back the Mates, 14-7.

Acacia surprised everybody Thursday night by edging T.J., 14-7. Theta Xi bounced Theta Chi, 37-7; as Sigma Nu outscored Sig Phi Ep, 34-27. Shamrock and Acacia's game was cancelled due to a schedule mix-up.

Friday night Theta Chi took another "hit" at the hands of Phi Kap, 47-6. Sigma Pi made it

two in a row by edging the Mates, 14-7. Triganle surprised Delta Sig, 14-0; and Sig Tau defeated M. R. H. A.

A complete list of the Football standings and this weeks predictions appear elsewhere on this page.

NOTICE

The Wesley program will be Wednesday, September 22, with Dr. Bevrige, speaking on "Culture in Rolla" at 6 p.m. at the Wesley House, 403 West Eighth Street.

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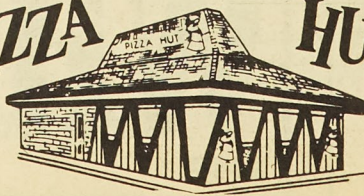
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'Mural Roundup

By Pete Pixum

Hi there again!! Pistol Pete Pixum, Rolla's only currently unemployed clairvoyant is back again with news and views on the intramural scene.

First on the agenda, an apology to the Men's Residence Halls Association, the residents of which apparently object to the familiar nickname "dormies." Sorry, fellas. I was introduced to the error of my ways about 12:15 one night by a half dozen of these gentlemen, led by Big Red. So down with frat rats. How'm I doing, guys? Is that better?

Second a report on the accuracy (?) of last week's predictions. Depending on your major, 65 percent is either excellent, (for a Chem. Eng.) or poor, (a EE about to transfer to Civil).

With a 65 per cent accuracy forecast, it's obvious that 35 per cent of you teams out there are not doing your bit for journalistic excellence. Namely, mine.

And you lazy fat cats that were picked to win but didn't; just because Pete says you're going to win, don't send two pledges and the house mascot over to the field ten minutes late. Upsets happen. Send the whole team. At least the defense.

Last week's worst prediction: Kappa Sig over Engine—a 56-0 "squeaker."

Last week's best: Delta Sig over Sig Tau in one tabbed as the Game of the week. It was won by Delta Sig in overtime.

Thursday night action. Shamrock will beat T.J. Phi Kap over Theta Xi, both undefeated in their league. 59'ers over the anemic Engineers. Tech Club stomps Theta Chi.

Friday results. Kappa Sig beats Acacia. Delta Sig over Sig Ep. Lambda Chi over the Mates. Advice to the Mates: Lambda Chi suffered a fatal case of respiratory disease against TEKE. Blue, blue, their lips were blue. Sig Nu's Snakes over MRHA, who will drop to 0-3 despite Big Red and the boys.

Monday night play shows Lambda Chi defeating Beta Sig. Pikers over Tech Club in a close game. Kappa Sig defeats 59'ers. This week's battle of the biggies features Wesley over A.E. Pi.

Tuesday night finds the Mates finally winning one, over Campus. Prospectors strike gold against Theta Chi, Alpha Phi to whitewash Acacia.

Game of the Week will be Phi Kap and surprising Theta Xi, both undefeated, in league three.

In the course of a golfing round, many hazards seek to trap the unwary golfer. There is the rough, which may at times resemble the jungles of Africa, bunkers and sand traps with nick-names like Hades, and of course relentless par.

A golfer does not, however, usually consider physical danger to be part of the game. The peril is usually to one's score, rather than to one's

person. D.J. Bayly MacArthur discovered that such is not always the case as he was playing the eighth hole of the local golf course in Rose Bay, New South Wales. He hit his ball into a bunker and stepped in to play it out. He found himself sinking, and was shortly up to his armpits in quicksand, before being rescued by members of his foursome.

This brought up an interesting rule discussion; is quicksand considered a natural hazard, unplayable lie, perhaps a lost ball, or even ground under repair. The books do not record the ruling nor MacArthur's eventual score on the hole.

NOTICE

Missouri Industry Day
Sept. 28, 1971. Multi Purpose Building.

But Chico, I Thought Offensive Holding Was Against The Rules!



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Harmon Highlights

Our first ratings for 1971 definitely have a 1970 flavor. For that matter, you could say they also have a 1969 flavor, a 1968 flavor, etc. Any strange faces? Not really. They've just been shuffled around a bit.

Notre Dame takes over the Number One spot, starting the season with a power quotient of 122.7. Nebraska and Texas are second and third respectively with P-Q's of 117.3 and 116.0.

Top honors for games that will be real coronary provokers Saturday have to go to two in particular. 6th-rated Auburn meets 8th-ranked Tennessee, and Colorado, no. 7, clashes with Ohio State, No. 10. of the four, the Buffaloes provided the most fireworks two weeks ago when they upset L.S.U. To accomplish the same feat in Columbus would blast skyrockets all the way back to Boulder. However, we're going to light a very small sparkler and pick the Coloradoans by one. The winner of the Tiger-Volunteer struggle will, as

usual, have an inside track to the Southeast Conference title. And we think Auburn will be on that track... the Tigers by eight points.

The high-flying Georgia Bulldogs, ranked 11th, go after win number three against Clemson. After clobbering Oregon State and whipping Tulane, it doesn't look as though the Tigers can slow them down. Georgia by 33!

And if Pittsburgh's recent upset of U.C.L.A. means that the Panthrs are loaded, 12th-ranked Oklahoma will provide part of the answer Saturday. The Sooners meet Pitt in Pittsburgh... Oklahoma's favored by 21 points. On paper, Alabama shouldn't have too much trouble from Southeast Conference foe Florida. However, when upsets occur, it's that "friendly" conference opponent that'll do it. The 13th-ranked Tide will stop the Gators of Florida by 24 points.

The two apparent West Coast powers (at least for the

moment), Stanford and Washington, will pass their tests Saturday. The 9th-rated Indians run into stubborn Oregon, still smarting from their drubbing at the hands of Nebraska. The Huskies, No. 19, meet T.C.U. Stanford will dump the Ducks by 19, and the Horned Frogs of T.C.U. are 14-point underdogs to Washington.

Taking a quick look: 5th-ranked Michigan will beat U.C.L.A. by 21 points... Texas will clip Texas Tech by 24... Notre Dame will rap Purdue by 27... Nebraska will add another scalp, whomping Texas A & M by 37... and Arkansas, No. 4, will tie up Tulsa by 42.

**READ
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The Harmon Football Forecast

- 1—NOTRE DAME
- 2—NEBRASKA
- 3—TEXAS
- 4—ARKANSAS
- 5—MICHIGAN

- 6—AUBURN
- 7—COLORADO
- 8—TENNESSEE
- 9—STANFORD
- 10—OHIO STATE

- 11—GEORGIA
- 12—OKLAHOMA
- 13—ALABAMA
- 14—PENN STATE
- 15—L.S.U.

- 16—SOUTHERN CALIF.
- 17—MISSISSIPPI
- 18—ARIZONA STATE
- 19—WASHINGTON
- 20—HOUSTON

Saturday, Sept. 25—Major Colleges

| | | | |
|-------------------|----|---------------------|----|
| Air Force | 35 | Wyoming | 6 |
| Alabama | 34 | Florida | 10 |
| Arizona State | 28 | Utah | 10 |
| Arkansas | 42 | Tulsa | 0 |
| Auburn | 30 | Tennessee | 22 |
| Baylor | 21 | Indiana | 17 |
| Boston College | 17 | Navy | 6 |
| Boston U. | 23 | The Citadel | 22 |
| Bowling Green | 26 | East Carolina | 7 |
| Brigham Young | 23 | Kansas State | 14 |
| Brown | 27 | Rhode Island | 13 |
| California | 35 | San Jose State | 7 |
| Colorado | 24 | Ohio State | 23 |
| Colorado State | 18 | Idaho | 7 |
| Columbia | 20 | Lafayette | 19 |
| Cornell | 24 | Colgate | 14 |
| Dartmouth | 38 | Massachusetts | 7 |
| Duke | 31 | Virginia | 7 |
| El Paso | 20 | Arizona | 17 |
| Georgia | 40 | Clemson | 7 |
| Georgia Tech | 24 | Army | 6 |
| Harvard | 34 | Holy Cross | 6 |
| Houston | 33 | California | 14 |
| Kansas | 25 | Florida State | 14 |
| Long Beach | 21 | Pacific | 13 |
| L.S.U. | 24 | Wisconsin | 7 |
| Louisville | 22 | Drake | 20 |
| Marshall | 18 | Xavier | 15 |
| Miami (Ohio) | 17 | Dayton | 16 |
| Michigan | 31 | U.C.L.A. | 10 |
| Michigan State | 21 | Oregon State | 20 |
| Minnesota | 31 | Washington State | 7 |
| Mississippi | 37 | Kentucky | 6 |
| Mississippi State | 17 | Vanderbilt | 8 |
| Missouri | 43 | S.M.U. | 13 |
| Nebraska | 44 | Texas A & M | 6 |
| New Mexico | 28 | Iowa State | 16 |
| New Mexico State | 20 | North Texas | 12 |
| North Carolina | 33 | Maryland | 14 |
| Notre Dame | 41 | Purdue | 14 |
| Ohio U. | 21 | Kent State | 14 |
| Oklahoma | 28 | Pittsburgh | 7 |
| Oklahoma State | 31 | V.P.I. | 6 |
| Pennsylvania | 20 | Lehigh | 13 |
| Penn State | 38 | Iowa | 7 |
| Princeton | 20 | Rutgers | 7 |
| San Diego State | 23 | South'n Mississippi | 7 |
| South Carolina | 34 | No. Carolina State | 7 |
| Southern Cal | 31 | Illinois | 0 |
| Stanford | 28 | Oregon | 9 |
| Syracuse | 22 | Northwestern | 11 |
| Texas | 45 | Texas Tech | 13 |
| Toledo | 42 | Arlington | 0 |
| Trinity, Texas | 27 | Wichita | 13 |
| Tulane | 16 | Rice | 7 |
| Utah State | 42 | Nevada (Las Vegas) | 0 |
| Villanova | 36 | V.M.I. | 7 |
| Wake Forest | 23 | Miami, Fla. | 20 |
| Washington | 28 | T.C.U. | 14 |
| West Virginia | 32 | Richmond | 7 |
| Western Michigan | 22 | North Illinois | 13 |
| William & Mary | 30 | Davidson | 7 |
| Yale | 41 | Connecticut | 7 |

Other Games—South and Southwest

| | | | |
|---------------------|----|-------------------|----|
| Arkansas State | 28 | NE Louisiana | 7 |
| Bluefield | 25 | West Va Tech | 6 |
| Carson-Newman | 26 | Emory & Henry | 7 |
| Catawba | 20 | Newberry | 15 |
| Eastern Kentucky | 21 | East Tennessee | 13 |
| Elon | 21 | Guilford | 0 |
| Fairmont | 24 | West Va. State | 13 |
| Finch | 26 | Delta State | 14 |
| Hampden-Sydney | 28 | Sewanee | 0 |
| Harding | 21 | Millsaps | 17 |
| Jacksonville | 31 | SE Missouri | 7 |
| Livingston | 20 | Troy State | 7 |
| Louisiana Tech | 22 | Lamar Tech | 6 |
| McNeese | 24 | U.T.M.B. | 20 |
| Mississippi College | 20 | Southern State | 10 |
| Morehead | 21 | Middle Tennessee | 7 |
| Murray | 20 | Tennessee Tech | 7 |
| NW Louisiana | 17 | SW Oklahoma | 6 |
| Presbyterian | 31 | Lenoir-Rhyne | 12 |
| Randolph-Macon | 19 | Mars Hill | 14 |
| Sam Houston | 27 | East Texas | 14 |
| Shepherd | 20 | Concord | 13 |
| SW Texas | 28 | Texas Lutheran | 10 |
| Southwestern, Tenn. | 17 | Centerville | 12 |
| Tampa | 26 | Chattanooga | 13 |
| Tennessee State | 24 | Alcorn A & M | 23 |
| Texas A & I | 27 | McNeese | 7 |
| West Liberty | 30 | West Va. Wesleyan | 0 |
| Western Kentucky | 35 | Union Peay | 17 |
| Wofford | 27 | Furman | 20 |

Other Games—East

| | | | |
|---------------------|----|---------------------|----|
| Albright | 20 | Juniata | 13 |
| Alfred | 24 | R.P.I. | 6 |
| Bowdoin | 30 | Worcester Tech | 7 |
| Brckport | 15 | Shippensburg | 14 |
| Bucknell | 28 | Vermont | 20 |
| Central Connecticut | 45 | Adelphi | 0 |
| Clarion State | 26 | South'n Connecticut | 10 |
| Delaware | 26 | New Hampshire | 7 |
| Drexel Tech | 21 | Upland | 10 |
| Indiana U. | 27 | Cortland | 14 |
| Jersey City | 15 | Glassboro | 13 |
| Middlebury | 17 | Wesleyan | 15 |
| Moravian | 28 | Delaware Valley | 6 |
| Mt. Union | 20 | Grove City | 15 |
| Muhlenberg | 20 | Johns Hopkins | 13 |
| Northeastern | 27 | Bridgeport | 13 |
| Norwich | 22 | American Internat'l | 20 |
| Rochester | 21 | Hamilton | 14 |
| St. Lawrence | 21 | Union | 6 |
| Slippery Rock | 31 | Geneva | 7 |
| Springfield | 18 | Amherst | 14 |
| Trinity | 22 | Williams | 13 |
| Tufts | 21 | Bates | 16 |
| Wash'ton & Jeff'son | 14 | Carnegie-Mellon | 13 |
| West Chester | 24 | Delaware State | 0 |

Other Games—Midwest

| | | | |
|---------------------|----|-----------------------|----|
| Abilene Christian | 35 | Omaha | 0 |
| Adrian | 14 | Bluffton | 7 |
| Akron | 27 | Western Illinois | 14 |
| Ashland | 30 | Otterbein | 7 |
| Augsburg | 17 | Macalester | 15 |
| Augustana, Ill. | 20 | Elmhurst | 18 |
| Ball State | 26 | Butler | 0 |
| Cameron | 23 | NW Oklahoma | 7 |
| Carroll | 21 | Millikin | 6 |
| Carthage | 28 | Wheaton | 6 |
| Central Methodist | 19 | Illinois College | 14 |
| Central Michigan | 24 | Northern Michigan | 20 |
| Central Missouri | 29 | Emporia State | 6 |
| Central Oklahoma | 27 | East Central Oklahoma | 7 |
| Central State, Ohio | 20 | Youngstown | 19 |
| Defiance | 14 | Alma | 13 |
| Duquesne | 22 | Hamline | 20 |
| Eastern Illinois | 23 | Milwaukee | 6 |
| Ferris | 20 | Wayne, Mich. | 17 |
| Franklin | 25 | Hanover | 0 |
| Graceland | 21 | Culver-Stockton | 20 |
| Henderson | 21 | SE Oklahoma | 13 |
| Hillsdale | 36 | Northwood, Mich. | 0 |
| Hiram | 19 | Oberlin | 7 |
| Indiana State | 26 | Evansville | 7 |
| Kalamazoo | 20 | Lake Forest | 7 |
| Kenyon | 22 | Hobart | 12 |
| Lakeland | 15 | Baker | 14 |
| Michigan Tech | 42 | SW State, Minn. | 6 |
| Monmouth | 21 | Coe | 10 |
| Nebraska Wesleyan | 22 | Missouri Western | 0 |
| Nebraska | 30 | Peru | 0 |
| Ohio Wesleyan | 22 | DePauw | 14 |
| Ottawa | 29 | McPherson | 0 |
| Panhandle | 31 | Western New Mexico | 12 |
| Pittsburg | 25 | SW Missouri | 14 |
| Ripon | 14 | Cornell, Iowa | 13 |
| Rolla | 22 | Missouri Valley | 13 |
| Rose-Hulman | 13 | Concordia, Ill. | 7 |
| St. John's | 33 | St. Thomas | 0 |
| Southern Illinois | 35 | Illinois State | 13 |
| Valparaiso | 21 | Illinois Wesleyan | 17 |
| Wabash | 17 | Hope | 14 |
| Washburn | 24 | Wayne, Neb. | 19 |
| Wittenberg | 42 | California State | 7 |

Other Games—Far West

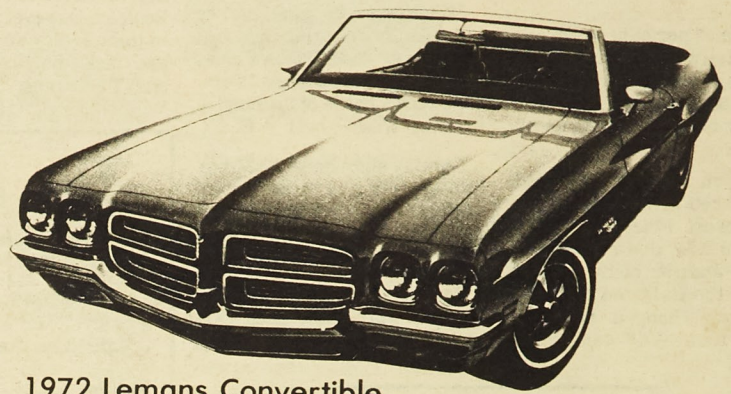
| | | | |
|-------------------|----|---------------------|----|
| Adams State | 21 | Southern Colorado | 14 |
| Azusa | 13 | Occidental | 6 |
| Chico State | 21 | Redlands | 7 |
| Claremont | 23 | Colorado College | 6 |
| Davis | 38 | San Francisco U. | 0 |
| Fresno State | 24 | Montana State | 15 |
| Hawaii | 30 | Infield | 7 |
| Humboldt | 24 | Southern Oregon | 12 |
| Idaho State | 35 | Los Angeles | 6 |
| Montana | 27 | Cal Poly (S.L.O.) | 23 |
| Montana Tech | 33 | Colorado Mines | 6 |
| Northern Colorado | 38 | Colorado Western | 12 |
| Pacific Lutheran | 21 | Western Washington | 13 |
| Pomona | 18 | St. Mary's | 7 |
| Portland | 20 | Central Washington | 6 |
| Sacramento | 24 | Cal Poly (Pomona) | 21 |
| San Fernando | 36 | San Francisco State | 7 |
| S.F.U. | 26 | Puget Sound | 6 |
| Weber | 28 | Northern Arizona | 6 |
| Whittier | 21 | LaVerne | 12 |

NEW FOR 1972

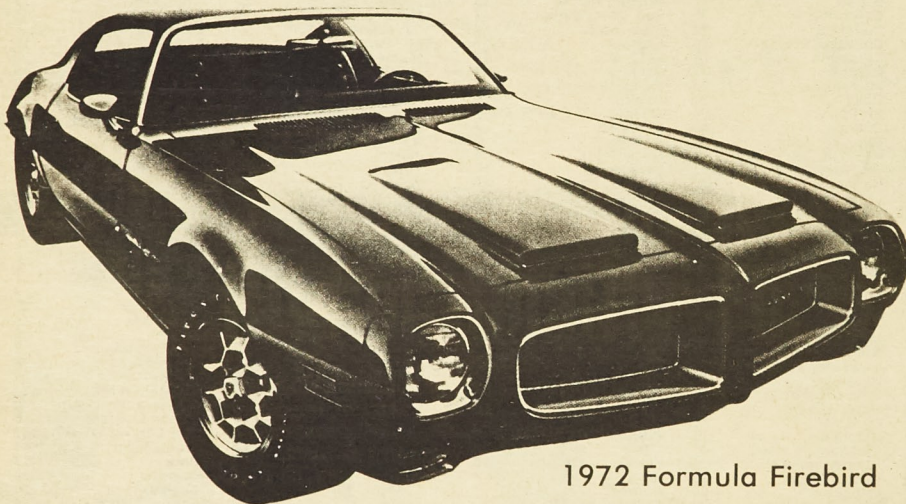
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