



16 Sep 1970

The Missouri Miner, September 16, 1970

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The Missouri MINER

UNIVERSITY OF MISSOURI - ROLLA



VOL. 57

WEDNESDAY, SEPTEMBER 16, 1970

ROLLA, MISSOURI

NO. 2

Three Graduates The First Year

The First Thirty Years At UMR

On February 24, 1870, after an eight-year debate centered around location, Missouri's 25th General Assembly established three land grant colleges under the national Morrill Act of 1862. The College of Agriculture was to be incorporated with the campus of the existing University of Missouri at Columbia in Boone County. Lincoln Institute, a school for negroes only, was established in Jefferson City in Cole County, and the School of Mines and Metallurgy, a division of the University of Missouri, would be located in southeast Missouri, in the county within the mineral district donating the greatest amount of land and money.

A special committee of the Board of Curators was appointed to establish the actual location of the School of Mines and Metallurgy. Two counties, Phelps and Iron, were the only ones within the area to offer bids substantial enough to be considered. Phelps County with its pledge of bonds valued at \$75,000, mineral lands, a building site and additional lands valued at more than \$55,000, was the successful bidder. The city of Rolla was formally approved by the Board of Curators on December 20, 1870, as the home of the Missouri School of Mines and Metallurgy.

At that time there were actually very few institutions in the United States devoted to training students in the technological sciences. Other land grant institutions established since the passage of the Morrill Act of 1862 were

very new and usually emphasized the science of agriculture. The amount of basic knowledge available for use in training engineers was limited and had been developed primarily in Europe. However, the need was great. The 1850's and '60's had pointed out the potential both in war and in peace. There was much to be done in the fields of mining, development of transportation systems and industrial growth. This then, was the very beginning of an institution that would train a succession of engineers who would become well known throughout the state, nation and even the world, as men who have contributed a great deal to the progress of mankind.

The Missouri School of Mines and Metallurgy was extremely fortunate to have two very able and progressive men to undertake the establishment of the institution. University President Daniel Read looked for a man who knew the sciences, as well as mining, geology and metallurgy. He was seeking a business man as well as a scholar, and one who was capable of planning an institution, choosing a faculty and designing a curriculum. When he found such a man in the person of Charles Penrose Williams, then professor of chemistry at Delaware State College, he charged him with the development of the school and supported his program.

The school opened under bright auspices. Williams began his work with enthusiasm and vigor. In addition to his administrative duties as director, he was also a professor of



The Rolla Building was the only building the school had for 14 years.

"History of MSM"-Photo

general and analytical chemistry and of metallurgy. Nelson W. Allen was appointed assistant professor of mathematics and also was the first secretary to the faculty. William Cooch was an assistant in analytical chemistry and assaying. These three educators made up the first faculty and administrative staff of the School of Mines. The University of Missouri Catalog for the first year lists two other

chairs, that of applied mathematics and engineering, and of geology and natural history. The catalog merely states that these were filled by other instructors, presumably by Williams and Allen.

In the summer of 1871 the Rolla Public School Board had completed plans for the construction of a building for its schools. Director Williams, shortly after his arrival, began negotiations with the Rolla

School officials, for a portion of this building as temporary quarters pending the construction of the proposed permanent School of Mines building. The request was granted and on November 23, 1871, the school was formally opened -- utilizing the top two floors of the building -- with a very impressive and elaborate ceremony.

Enrollment for the first year
(Continued on Page 5)

Centennial Address

September 10, 1970

Dear Students:

A special welcome is extended to our new students as you start your academic work here during the Centennial Year.

To those of you returning, we hope that the Centennial year activities will have special meaning for you.

We want the students to be a major component of the Centennial team in making this year a specially important one for the campus.

Today, the campus ranks at the top, or near the top, nationally in many fields in both size and quality. We can all approach the beginning of the

second century with enthusiasm that this present solid foundation can provide the thrust to become even more highly respected.

For those of you who will graduate this year, you have a special opportunity to further enhance the reputation of this campus as you succeed in your chosen fields of interest.

The Board of Curators, President Weaver, the Alumni, the Faculty, and I extend to you our sincere best wishes for a most successful and enjoyable year.

Sincerely,

Merl Baker
Chancellor

Graduates Can Expect Good Job Placement This Year

Despite retrenchment in the job market this year, 92 percent of the University of Missouri-Rolla January and May 1970 bachelor's degree recipients available for employment secured jobs upon graduation. The figure compares with 95 percent in the same group last year. Figures were compiled by the UMR Placement Office from statistics reported by January and May 1970 Rolla graduates.

UMR starting salary levels continued to rise this year. January and May 1970 graduates with bachelor's degrees started out in jobs at an

average salary of \$855 per month. January and May bachelor's degree graduates in 1969 started out in jobs at an average of \$834 per month.

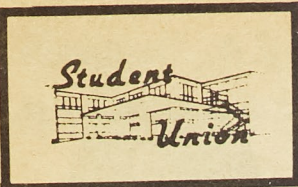
The largest number of graduates reporting for work in one area (in January and May, 1970) were those in the metals and metal products industries.

Other job areas attracting a large number of UMR graduates included: petroleum and allied products; chemicals, drugs and allied products; construction and building materials; government civil service; public utilities; automotive and mechanical

equipment; electrical machinery and equipment; highways; aerospace and components.

The highest average starting salaries at the bachelor's level went to graduates in mathematics (\$920 per month). Graduates with bachelor's degrees in other departments received the following average starting monthly salaries: petroleum engineering, \$910; chemical engineering, \$906; geological engineering \$890; metallurgical engineering with nuclear option, \$881; ceramic engineering, \$880; physics,

(Continued on Page 3)



NEVER TOO LATE is the story of a middle-aged New England couple who discover that they are about to have another child at a time when most people are becoming grandparents. Connie Stevens and Bob Hutton as their daughter and son-in-law throw the story into high comedy trying to catch up with Kate's parents. Have you taken a good look at your parents lately? It's "NEVER TOO LATE."

With Paul Ford, Maureen O'Sullivan, Connie Stevens, Jim Hutton, Jane Wyatt, Lloyd Nolan, and Henry Jones.

Miner Office Hours
Building T-14
Monday - Thursday
2:00 p.m. to 4:30 p.m.

Vehicles Must Display Registration Sticker

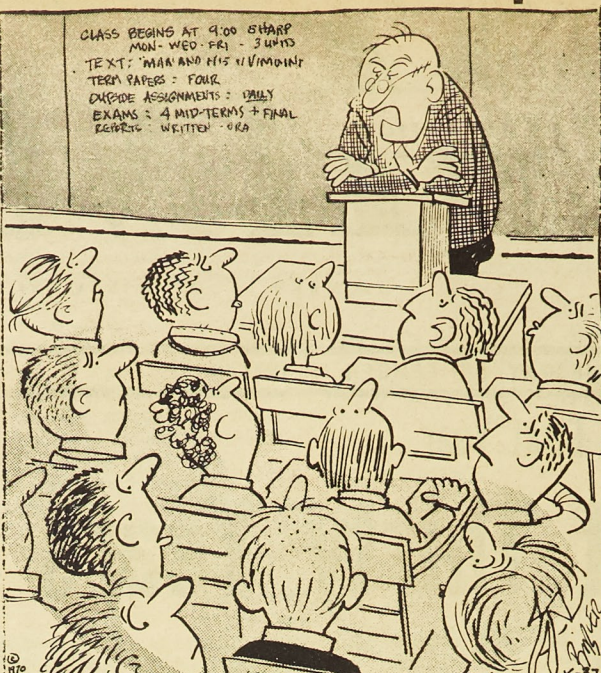
Students who have not registered their vehicles with traffic safety should do so promptly, since failure to register a vehicle is a \$25.00 fee.

Students who have registered their cars and have not picked up their registration decal should take care of this matter right away. Officers from traffic safety have started checking automobiles to determine if vehicles are registered.

Graduate students and students who have applied for parking permits should not park on restricted lots even though they had a permit for a particular lot last school year. Parking permits requested by graduate students will be processed as quickly as possible, and will be mailed to the home address, if the address was furnished on the permit card.

Students and personnel may use parking lot No. 21 across from the student union.

Little Man On Campus



UPTOWN THEATRE

THURS. THRU WED.
SEPT. 17-23
Evening Feature - 6:45 & 9:15
Sunday Feature
1:25, 4:00, 6:40, 9:15
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Clint Eastwood & Lee Marvin

RITZ THEATRE

THURS. FRI. SAT.
SEPT. 17-19
One Showing Nightly at 7 p.m.
Feature at 7:25 p.m.
No one Admitted under 16
unless accompanied by parent.
RATED R
"THE ADVENTURERS"
Bekim Fehmiu &
Ernest Borgnine

SUN. THRU SAT.
SEPT. 20-26
No one admitted under 16 unless
accompanied by parent.
RATED R
"THE BOYS IN THE BAND"
Kenneth Nelson &
Leonard Frey

ROLLA DRIVE-IN

Shows Start At Dusk
FRI. SAT. SEPT. 18-19
RATED GP
3 BIG FEATURES
"HORROR HOUSE"
PLUS
"THE CRIMSON CULT"
ALSO
"YOUNG BILLY YOUNG"

SUN. MON. SEPT. 20-21
RATED G
"SWEET CHARITY"
Shirley Maclaine &
John McMartin

TUES. SEPT. 22
DOLLAR A CARLOAD
RATED GP
"ONE MORE TIME"
Sammy Davis Jr. &
Peter Lawford

WED. THURS. SEPT. 23-24
No one admitted under 16 unless
accompanied by parent.
RATED R
"SPIRITS OF THE DEAD"
Brigitte Bardot & Jane Fonda

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HAM (Sliced Thin, Piled High)	64¢
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Offices Play Hide-And-Seek

Several University of Missouri-Rolla offices have moved to different locations and several other moves are planned this semester.

Already in new locations are: Geological Engineering (Mining 125), International Center (Norwood 310-310A), Student Financial Aid and Housing (top floor of Parker Hall), Personnel (ground floor of Parker), Business Officer and Assistant Business Officer--

Contracts (T-4), Traffic Safety (1103 State Street) and Graduate Office (Library 204).

The Business Officer and Assistant Business Officer--Contracts and the Graduate Office will be moving to the top floor of Parker Hall when remodeling is finished. Also to move to the top floor of Parker Hall in the future are: Research Coordinator's Office, and Dr. Lynn W. Martin's office.

The Office of Public Information is planning a move soon to 1203 State St. from its present offices at 900A Rolla St. It is anticipated that the band and music instruction will be moved to the Old Cafeteria Building within a few weeks.

Social sciences faculty who are moving from 1203 State, T-16 and T-18 to 1201 State St. are: Curtis Adams, Jo Barr, Anthony Bopp, John Dahm, Harry Eisenman, Christopher Garbacz, Roscoe Goslin, David Hentzel, Rosemary Karam, Kwang Lee, Sallie Montgomery, Don Oster, John Rafferty, Lance Williams, Wayne Bledsoe, Marvin Cain, Bill Murphy, Catherine Jenks, Lawrence Christianson, Jack Ridley and Gerald Roberts. Social Sciences faculty located in T-16 are Russell Enzie, Kenneth Mace, Robert Montgomery and Robert Sawyer. Ron Iacovetta and Harold Warner will be in T-18.

Problems Solved For Students

"I'd like help in choosing a major." "How can I make better grades?" "I feel sort of alone." "My girl and I just don't seem to get along."

So go some of the problems which University of Missouri-Rolla students bring to the staff of the UMR Counseling Center.

According to Dr. Lynn W. Martin, director of the center, UMR offers counseling services because members of the staff and faculty recognize that each student is a unique individual. "Students are welcomed and encouraged to bring any of their problems to the center to receive education, vocational or personal assistance," Dr. Martin says. And many of the students do.

The center is located in Rolla Building, 105 and is open from 8 a.m. to noon and from 1 to 5 p.m. Monday through Friday. All counseling is on a voluntary basis.

In addition to counseling services, the center sponsors a study skills course in which students can learn practical study methods, how to plan for the effective use of time and how to learn more effectively. The course also helps students to improve their reading skills.

Members of the counseling center staff are Drs. Martin, Robert S. Barefield, Joseph R. McDonald, Arlan DeKock, George Schowengerdt and Gene Van Matre. All are professional counselors with doctoral degrees.

Service To UMR Theta Tau

Theta Tau, national professional engineering fraternity, will be accepting applications again this fall for the Theta Tau Freshman-of-the-Year Award. Applications for the award will be made available at the Student Union Candy Counter from September 14 to September 23.

Theta Tau sponsors this award every year to bestow recognition on the outstanding freshman of the year for his service and achievement on the UMR campus. Anyone who was

a freshman during the 1969-1970 school year is eligible to apply.

Some of the other services which Theta Tau renders to the campus community include the Homecoming mums, the Theta Tau School Calendar, and the Theta Tau Ugly Man contest. The Freshman-of-the-Year Award is yet another, and Theta Tau urges all eligible students to apply for this unique distinction.

SUPPORT THE
MISSOURI MINER

Greasy Spoon Becomes ANOTHER PLACE

Hiway 63 could be paved with grease from the old WEE CHEF Restaurant at 8th & Bishop. WEE CHEF also was known as WEE — to UMR students for years. It was so greasy in recent years that only dumb hoosier truck drivers would eat there. These drivers were so dirty that only in bright daylight could one tell where the greasy drivers stopped and the greasy counter began. The coefficient of friction between the greasy food and the greasy counter was such that the food would actually slip off the counter. This food was saved and resold to the next hoosier, unless a new rat carried it away. (Wiser rats never got near the place.)

However, Bob Brockhaus, the new owner, felt that if we can send a man to the moon, he could clean up the restaurant. Bob has spent all summer cleaning, repairing, and replacing equipment as well as

renovating the interior and exterior. Today, the stainless steel shines, the counter is gone, and so is the old help and greasy food.

Bob began by hiring Dan Frisbee, a UMR student, as manager. Dan in turn hired only students (mainly coeds). Next came the food. It had to be of high quality, but priced for student budgets. The sandwiches range from inexpensive but good to huge, delicious creations that any Miner would love.

Because it isn't a franchise Bob is ready, willing, and able to alter the menu to meet Miner taste. Bob is a 1962 UMR graduate who was in charge of the kitchen for his fraternity while in school. So only little changes will probably be necessary.

It's so different from anything else in Rolla, it will be called ANOTHER PLACE.

Miner of the Week



SUPPORT THE
MISSOURI MINER

More News & Views



The Missouri
MINER
UNIVERSITY OF MISSOURI - ROLLA



SECOND FRONT PAGE

Construction Hot On Campus

Students returning to the University of Missouri-Rolla this fall will see a lot of activity in the construction line.

New buildings still under construction are the Mathematics and Computer Science Building, Humanities and Social Sciences Building and the Engineering Sciences Research Laboratory Building. All three are scheduled for completion in 1971. All three were funded in 1968.

The Mathematics and Computer Science Building, located south of the Materials Research Building and west of the Library, will provide classroom space for about 1,000 students and will house a computer center and related facilities. It will also contain

offices for the mathematics and computer science departments.

The Humanities and Social Sciences Building is near completion west of the Library and north of the Mining and Petroleum Engineering Building. It will house the classrooms, laboratories and faculty offices of the departments of humanities and social sciences.

The Engineering Sciences Research Laboratory Building is being constructed on the north edge of the drill field along 16th street. It will contain laboratories, shops, offices and other facilities which will be devoted entirely to interdisciplinary type research focused heavily toward environmental problems.

Former Minorettes Honored

Five University of Missouri-Rolla graduates have been selected to appear in the 1970 edition of Outstanding Young Women of America.

They are: Mrs. Ann Perry Wethington, Mrs. Martha C. (Shultz) Fowler, Mrs. Laura Lee (Morey) Bosnak, Mrs. Barbara (Edson) Vitoff, and Mrs. Gail K. (Davidge) Kettenbrink.

The five were nominated for the honor by UMR's alumni association and were chosen on the basis of their achievements. They are now in competition for their state's Outstanding Young Woman of the Year Award.

Mrs. Wethington, who is married to Bob L. Wethington, received a B.S. degree in chemistry from UMR in 1957.

She is employed with the U.S. Bureau of Mines in Rolla.

Mrs. Fowler was awarded a B.S. degree in electrical engineering from UMR in 1961. She is an assistant professor of electrical engineering at the University of Texas at Austin.

Mrs. Bosnak is married to John S. Bosnak, also a UMR graduate. She received a B.S. degree from UMR in physics in 1963.

Mrs. Vitoff is married to Bud Vitoff. She was awarded a B.S. degree in applied mathematics from UMR in 1964.

Mrs. Kettenbrink is married to Edwin C. Kettenbrink, also a UMR graduate, and is a teacher in the Clear Creek Community School District, Oxford, Iowa. She received a B.S. degree in geology from UMR in 1967.

University Dames To Meet

All UMR Students Wives are invited to attend the University Dames meeting to be held Monday, September 21, at 7:30 p.m. at the Student Union Ballroom. This meeting is designed especially to acquaint new UMR wives with the campus, the community, and the Dames organization and its members. The organization is composed of wives of students (undergraduate and graduate) attending UMR.

At the meeting, those who wish to join the University Dames may register and pay dues for the semester. There will also be an opportunity to sign up for the twelve interest groups available to members.

One of the highlights of the evening's program will be a welcoming address by Chancellor Baker.

All interested wives are encouraged to attend this first important meeting of the University Dames.

Jobs

(Continued from Page 1)

\$878; metallurgical engineering and mechanical engineering, \$873; engineering management, \$866; electrical engineering, \$865; mining engineering, \$861; geology with a geophysics option, \$860; civil engineering, \$838; computer science, \$835; chemistry, \$831; aerospace engineering and humanities and social sciences, \$827; engineering mechanics, \$825; geology, \$819.

Masters degree recipients are starting to work at average salaries of \$1,007 per month and Ph.D. graduates are taking jobs at an average salary of \$1,369 per month--according to January and May figures at UMR.

BUBBA BROTHERS REPORT

Many students have noticed (especially in their check books) a marked consistency of some departments, and various courses within departments, to change books in a course as frequently as three semesters in a row. This seems to be the case especially in the basic freshmen and sophomore courses. These switches generally run through the available texts for a particular subject and when all available authors are tried out, the list is run through again, this time using the new "revised" additions.



Although it is, of course, a department's prerogative to choose new texts anytime that they feel a better text is available, or significant new information has been revealed concerning a field of study, one

can't help but wonder if developments made during a semester are significant enough to warrant a new edition of a book concerned with basic engineering curricula. It is often even more disenchanted to discover that your new \$9 to \$15 book is used primarily for problem assignments, and that the bulk of information taught in a course is presented in a teacher's lecture.

In an economic period where most students have already begun to feel the effects of the constantly spiraling inflationary cost of education, administrators and teachers too, should consider not only the pro's but the con's of frequent book changes.

Simply, is the teaching advantage of your course's new textbook worth the extra cost to your students?

Student Forum



Chancellor Merl Baker
University of Missouri
Rolla, Missouri

Dear Chancellor,

I am writing to you in regard to the Inner Co-op council. On May 12 and 14, 1970 the men of this

group carried out track meets for the State Schools for Trainable Mentally Retarded Children. The club provided the ribbons, trophies and officials for these two track meets. These men did a tremendous job working with these youngsters. I felt that their project should be called to your attention since they conducted themselves in the highest manner; their work reflects on the University of Missouri at Rolla. In too many cases the rioters get the head lines and the "good guys" get the back page.

Yours truly,

-s- Mrs. Roger Jenkins
Mrs. Roger Jenkins
Physical Education Spec.
State Schools for
Retarded Children

Rev. W. Fred Lamar
Wesley Foundation
403 West 8th St.
Rolla, Missouri

August 17, 1970

Dear Rev. Lamar:

Thank you very much for all the information on Rolla student involvement in society problems. What a fantastic record those students have compiled. I commend also your efforts in studying their reactions to this involvement. No wonder the Rolla campus, graduates, and faculty are so well regarded across the country.

Your comments and press releases are indeed welcome additions to my survey. Your data is, however, a great deal different from most that I have received. Most has dealt with the involvement of one student, yours describe the interest, involvement, and commitment of an entire school. It's rather staggering.

Respectfully,
-s- LaRoux K. Gillespie
LaRoux K. Gillespie

OUR MAN HOPPE

The CIA Water Buffalo

Here's a surprise: "News-week" reports that Air America, which serves the CIA in Southeast Asia, is now one of the biggest U.S. airlines--ranking just behind National and just ahead of Northeast.

The surprise, of course, is that it isn't the biggest. I suppose it's the service. Who wants to fly on an airplane run by the CIA?

Take the case of Marvin Munch, a defrocked Lutheran transvestite who was being shipped home to Peoria from Saigon in disgrace.

Wandering through the Ton Son Nhut Airport, Munch took a wrong turn, fell through a trapdoor, and landed in a heap in front of the Air America ticket counter.

"Heavens to Betsy!" said Munch.

"I'm glad you know the password," the ticket agent, a dashing type wearing a black eye patch over his left ear, said as he put away his .38 Aston-Martin automatic.

Humming a few bars of "Fly the Friendly Spies of America," the agent wrote out a ticket for Munch in invisible ink, burned it in an ashtray and handed him a boarding pass. "After you

memorize this," whispered the agent, "eat it."

Munch nervously did so. "This flight, should you decide to accept it," said the agent grimly, "is now boarding through the broom closet, tunnel D-12. You'll recognize it as a four-engine water buffalo."

Munch had no trouble finding the plane. It was the only four-engine water buffalo on the field. He was greeted at the top of the gangway by an attractive stewardess wearing dark glasses and a black moustache.

"Coffee, tea or, in case of capture by the enemy, hemlock, sir?" she inquired. "Please extinguish all fuses and fasten your parachutes for take-off."

Once airborne, the pilot came back into the cabin. He was wearing puttees, a leather helmet and a white silk scarf. Bending over Munch, he whispered in his ear: "This is your captain, X-132-2(B) speaking. We have reached our cruising altitude of 15 feet. We estimate a flight time of two hours and 18 minutes to our top-secret destination. Do you happen to know, old chap, where we're going?"

"I'd like to go to Peoria," said

Munch.

"Jolly good show that," said the pilot, nodding. "It's 70 kilometers through hell. But so's Decatur."

An hour later, the plane landed at Whar Dhat, capital of the neutralist Asian kingdom of Cao Dng.

"Good luck, men," said the pilot shaking each passenger's hand. "This plane will self-destruct in five seconds." And he led the hasty exit, waving a poison-tipped umbrella and shouting, "Peoria for the Peorians!"

The water buffalo blew up on schedule and the resultant blast toppled the neutralist government, a shaky coalition at best.

The pilot surveyed the wreckage with satisfaction. "Damn fine job," he said proudly. "It's heartwarming to know Peoria will now be on our side."

Munch said he didn't think this was Peoria.

"Never mind," said the pilot. "Wherever it is, it's on our side now. And we're keeping alive the finest traditions of the CIA. It's the third government we've toppled this week."

The Lottery And The I-S (C) Deferment

As December 31 approaches, students across the country must decide upon their final and most important play in the Lottery "numbers game".

Students with "low" Lottery numbers know only too well they must remain deferred through December 31 or face "Greetings". They will choose to request the II-S student deferment in September. A year from now they may take their chances, hoping for a change in draft calls, the law, the war, or their health.

A student with a "high" Lottery number will want to put his year of draft vulnerability behind him. To do so, (1) he must be in class I-A, I-A-O (noncombatant C.O.), or I-O (civilian work C.O.) on December 31; and his Lottery number must not have been reached by that date. If the student meets both these qualifications on December 31, he will descend from the 1970 "first priority" group to the 1971 "second priority" group on New Year's Day. For all practical purposes, this descent assures virtual immunity from induction.

Assuming the student with the "high" Lottery number is not going C.O., he will have to seek a I-A this fall. In order to do so, he must not request the II-S deferment. According to the law, a local board should not place a student in class II-S unless he has requested the deferment. This rule applies regardless of whether the student meets all the other requirements for a II-S.

A college cannot legally request the deferment for a student. Furthermore, a II-S request for a prior academic

year cannot be construed as a II-S request for the current year.

Students with Lottery numbers in the "middle" would appear to be in a real quandary. They cannot predict with certainty whether they will be called. Should they take a chance, not request a II-S, and hope their Lottery numbers prove safe? The lure of "second priority" next year is great.

Or should students in the "middle" opt for security, request a II-S, retain it through December 31, and face "first priority" again next year? Security is also tempting, but it may cause bitter disillusionment when the student in class II-S on December 31 discovers that his number was not reached, and he would have made it.

The dream of students in the "middle" would be to wait until December 31 before deciding whether or not to be deferred on December 31. The I-S (C) deferment is a dream come true.

The I-S (C) deferment is available to any fulltime college student who, while satisfactorily pursuing his studies, receives an induction order. If the student has never held a I-S (C) deferment and does not have a baccalaureate degree, he is entitled to have his induction order cancelled. He qualifies for class I-S (C), where he must be kept until the end of the 12-month academic year.

Consider the utility of the I-S (C) deferment: Suppose a student has Lottery number 190. He is unsure whether it will be reached. Nevertheless, he does

not request a II-S and remains I-A through the fall semester.

Unfortunately, before December 31, the student loses his gamble. Lottery number 190 is reached, and the student receives an induction order. The student immediately requests a I-S (C) deferment, proving to his board that he actually was a fulltime student, making satisfactory progress, when he got his order. The order will be cancelled -- not merely postponed -- and the student will have to play the Lottery all over next year. However, he will have to play without one of his favorite gambits, since the I-S (C) is available only once.

Resort to the I-S (C) provides a convenient way to hedge on the I-A bet. However there are two potential pitfalls: First, the board may classify the student II-S even though he makes no request. Second, assuming the student gets a I-S (C), his tactics may be considered a delay. Consequently, when his deferments run out, he may be immediately ordered to report, despite the fact that his number has not yet been reached in the year he becomes I-A. A safe path across these pitfalls will be described in the next column.

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Student Body Increases After Difficult Period

(Continued from Page 1)

was listed as twenty-eight. This included eight first-year or regular students, three specials, and seventeen enrolled in the preparatory department. Nineteen of the twenty-eight were listed as Rolla students and most of the others were from the local area.

As the list shows, the largest enrollment during the first year was in the preparatory department. Practically all colleges of that day had such departments, primarily because of the lack of high school facilities at this early date. The work given in the few secondary schools was not in any way organized to prepare students for a school of technology. It was considered an absolute necessity to prepare students before they could hope to meet the real competition of technical college work.

From the beginning Director Williams insisted upon a broadly-based, well-balanced curricula and a well-integrated program for degree work. Those who sought admission to the first year program had to be at least seventeen years of age and had to stand an examination in all the subjects of the preparatory year. The program leading to a degree covered courses over a three-year period. Special students were admitted to any department without an entrance examination, but they were not entitled to a degree. They were, however, issued certificates of proficiency upon satisfactory completion of any course which they might elect.

The first three years of the school's history saw an increase in the faculty, an increase of enrollment to 107 students, and refinements in the curriculum. In June of 1874 the first three degrees were granted. Gustavus A. Duncan and John Holt Gill received Civil Engineering degrees and John Wallace Pack received a degree in Mining Engineering.

A problem which received serious consideration by the faculty in the early years was student discipline. While perhaps some of the rules and regulations appear extremely harsh and childish to us today, it must be remembered that the moral citizenship training for the individual was considered almost as significant as academic and technical subject matter in the 1870's. The college was a place for citizenship training as well as a group of classrooms in which the formulas of chemistry were committed to memory. A system of demerits was established to govern the conduct of the students. Absences, tardiness, general decorum and the use of intoxicants were the main causes of concern, and offenses were assigned various numbers of demerits. A total of twenty-five demerits resulted in a note to the parents and fifty demerits entailed suspension from school. Disciplinary measures varied widely on the question of intoxication. On September 22, 1873, the faculty voted that any student becoming intoxicated at the St. James Fair would be publicly expelled from school on the following morning. The most common action in regard to intoxication was to make the

guilty student sign a pledge never to enter a saloon or to become intoxicated for the remainder of the year.

The matter of orderliness in the building and about the campus was also covered by rules. One of the first disciplinary regulations to appear in the minutes prohibited loitering around the building or on the school grounds. Between classes no student was to wander about the halls or campus without permission. He was to be either in class or in the library preparing his lessons. In no case could a student leave school before the close of recitations except with an excuse from the parents.

The faculty also frowned upon play or any kind of sports during the regular school hours. In September, 1874, a number of students petitioned the faculty for permission to play games during the periods for which they had no recitations. The faculty turned down the petition with the command that those desiring fun and games be required to go to the library and prepare their next assignments.

Despite a lack of financial support during its early years, the school was gaining a favorable reputation throughout the state. In 1875 the General Assembly made its first direct appropriation of \$10,000 to the school for the biennium 1875-76. It also provided \$25,000 with which to purchase the Rolla building from the public school system and gave the school its first permanent structure. Lack of funds had precluded building the school on the original site.

After 1875, serious difficulties began to confront the institution. The phenomenal growth and success that had so marked the first three or four years could not continue. The basic problem was the panic of 1873, followed by a depression which, by 1875, had made itself felt in Missouri. Because of this and other problems beyond his control, Director Williams resigned in 1877.

The next twenty years were to be the most difficult of the school's history, particularly the period between 1877 and 1888. Enrollment was low following the depression and most of the students were from the immediate surrounding area and included a fairly large percentage of females. Numerous changes or experiments in the curricula were attempted in the direction of the liberal arts in order to attract students and thus combat the declining enrollment. During the latter part of the 1880's the technical faculty rebelled and the curricula returned to the standards instituted by Director Williams.

A major curricular innovation first occurred with the introduction of new degree courses in 1889 and 1890. In addition to the traditional work in the fields of mining and civil engineering, it was possible to obtain a Bachelor of Science degree in mechanical engineering, chemistry, mathematics, physics and general science.

During the 1892-93 school year the preparatory department, which had been in existence since the beginning of the

Signs of the Times



school, was abolished and the regular technical course was extended to a four year program. The establishment of an English requirement for all curricula was also instituted.

The year 1891 saw the appointment of the first permanent professor of physics and a new chair of mining and metallurgy was created in 1893. In 1894 the curriculum was divided into the following departments: engineering, chemistry, mining and metallurgy, mathematics, physics and modern languages.

Activities of the students remained under close supervision by the faculty. Social life centered in groups who gathered together to develop the literary and oratorical style of the student. They sought specifically to train the student in the art of debate and public speaking. The faculty gave permission to use a room at the school for performances and these became popular events in the early history of the school.

A survey of the expenses entailed by the student for the 1886-87 term is surprisingly meager when contrasted with the higher living-costs of later years. The Catalog for that year published an estimated statement of the probable expense for a typical student for one year. The expense account was itemized as follows:

Tuition.	\$20.00
Laboratory expense.	20.00
Board, fuel, washing, lights.	96.00 to 150.00
Books, stationery, etc.	8.00 to 20.00

The minimum estimate equaled \$144.00 per year; the maximum amounted to only \$210.00 annually. Many students earned a portion of their expenses by working at various jobs in the town. The parents were urged by the school administration to give their sons and daughters very little spending money, as only a small sum was needed in that day. The school authorities might have reasoned that a student having an excessive amount of money would be more likely to neglect his studies and become a disciplinary problem.

Beginning in 1888, athletics made great strides forward. As early as 1891, an Athletic Association was organized among the students to promote an interest in the various sports. Also, by this time, a field was enclosed and graded for athletic activities. Intercollegiate rivalry began with the game of football. The first such game was played with Drury College at Springfield, Missouri in the fall of 1893. The expenses of the fifteen men making the trip were paid by the home team. It is interesting to note that Harry K. Landis, professor of mining and metallurgy, played right end in this game. There seems to have been no objection to coaches or members of the faculty playing in these early contests. The Miners lost this first game, the only intercollegiate contest played that year, but in the return contest in 1894 they won by an 8

to 6 score.

The first physical addition to the campus during this period was the construction of the Chemistry Laboratory in 1885. The building as then constructed was only a one-story structure and comprised the central portion. The wings and the second story of this building were added at a later date. The addition of the Chemistry Laboratory made the institution appear more like a school of technology, as it could boast of two halls of learning rather than only one. In 1895 an appropriation of \$3,500 from the legislature made vast improvements in the campus and grounds. The entire campus was graded, and a low stone wall, surmounted by an iron fence, was built along the southern and eastern sides.

In 1889 the building that is now the Chancellor's residence was built and used as a dormitory and mess club until 1900. The Mining and Metallurgy building was constructed and furnished in 1895. The geological and mineralogical equipment was placed in this building and the collection was augmented by the acquisition of the entire Missouri Mineral Exhibit, which was on display at the Chicago World's Fair in 1893.

After thirty years of a struggling existence, the beginning of a new century saw the institution poised for a leap into a new era of great promise and prosperity.

Father Time Candidates

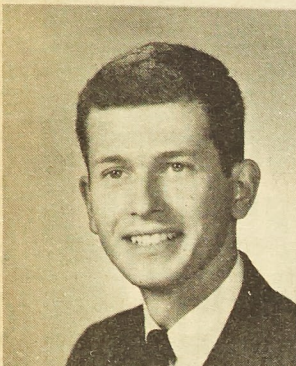
The Men of Acacia would like to introduce their candidate for Father Time, Jim Michel.

Jim is a Senior and will graduate in December. He is presently President of Acacia and has also served the Fraternity in the capacities of Vice President, Social Chairman, Treas., and Secretary.

Jim has been very active in Campus organizations, too. He has been President of Scabbard and Blade, Secretary-Treasurer of the Nuc. Eng. and Science Honor Society and Vice President of Phi Eta Sigma.

along with being a member of Taw Beta Pi, Alpha Sigma Mu, IFC, Blue Key and The Met Society. During this time he has been on the Dean's List all eight semesters and presently has a 3.23 GPA.

The Brothers of Acacia feel Jim would serve well as UMR's Centennial Father Time.



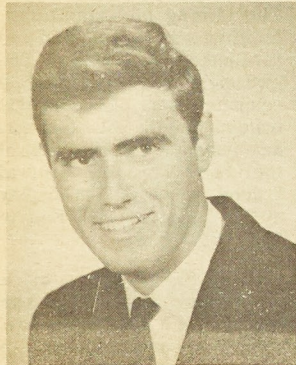
Jim Michel

Representing Sigma Pi is Glenn J. Conger, a 21-year-old senior from Berkeley, Missouri. Glenn will be completing his work for a B.S. in ceramic engineering in December after 3½ years. After a January wedding, he will enter graduate school in the ceramics department.

Glenn is a member of Tau Beta Pi, Phi Kappa Phi, past representative to the Interfraternity Council, past president of Sigma Pi, and current president of Keramos, the Ceramic Engineering Honorary. Through all this he has kept a 3.84 accumulative grade point; enough to make us wonder if he'll study on his honeymoon!

Outside interests have been sidetracked with all these chores, but when there's time, handball, golf, tennis, and singing get some attention. Without some recreation at UMR, the only alternative is institutionalization.

The brothers of Sigma Pi lend their hearty support to Glenn!

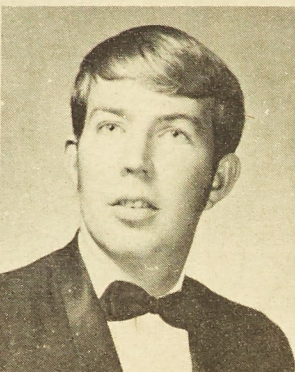


Glenn J. Conger

Lambda Chi Alpha's candidate for Father Time is Mr. John Warner. John, a graduate of UMR in June of 1970 is currently doing post-graduate work in the Department of Geological Engineering. John has served as president on the

UMR Interuniversity Council as well as Lambda Chi. He was also secretary of Blue Key and Alpha Phi Omega Service Fraternity. John also served as vice-president of the National Society of Professional Engineers and the Association of Engineering Geologists. John has also been a member of Sigma Gamma Epsilon Honor Fraternity, Scabbard and Blade (the Military Honor Society),

the American Nuclear Society, AUSA, C.L. Dake Geological Society, and the Faculty Committee on Student Discipline. We feel John has all the qualifications to become "Father Time" and watch over the proceedings of UMR's first Centennial Celebration.

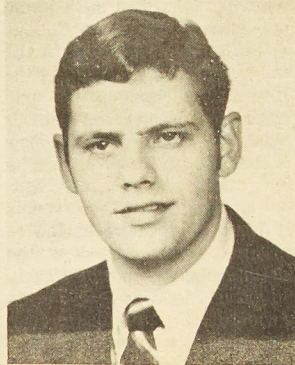


John Warner

The Independents of UMR are proud to present Mr. Jack Leone as their candidate for Father Time. Jack has proved himself worthy of this honor through his contributions to UMR in the areas of leadership and scholarship. Although presently a graduate student in Engineering Administration,

Jack displayed a continuing interest in UMR throughout his undergraduate career by such achievements as being Student Council President, 1969-1970 Independent Man of the Year, a member of the Centennial Events team, Who's Who, Blue Key, and other activities too numerous to list.

The Independents feel that Jack's achievements speak well for not only him, but GDI as a whole. We feel quite justified in saying that Mr. Jack Leone would be a very appropriate choice for UMR's Father Time.



Jack Leone

Beta Sigma Psi is proud to present as their candidate for Centennial's Father Time, Brad Kasten. Brad is a senior mechanical engineer with high hopes to graduate next May.

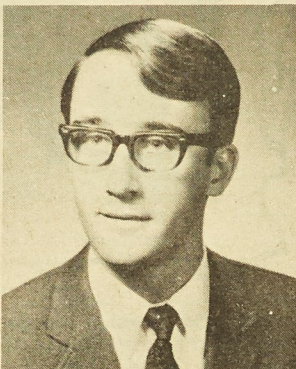
During his short stay here at Rolla, he has served his fraternity well. He spent many hours as social chairman, secretary and 1st Vice-President. This semester he is guiding our happy freshmen as Pledge Trainer.

In past semesters he has served as Secretary, Treasurer and Vice-President of the American Society of Mechanical Engineers. He is now functioning as President. He's also a member of Theta Tau.

Brad finds a lot of time for recreation, however, and motorcycle racing and Vicki rate high on the list. (Though not necessarily in that order)

His smile and wit make him awfully easy to get along with and his ability to listen to others is unexcelled.

Beta Sig is proud to have Brad Kasten as their candidate.



Brad Kasten

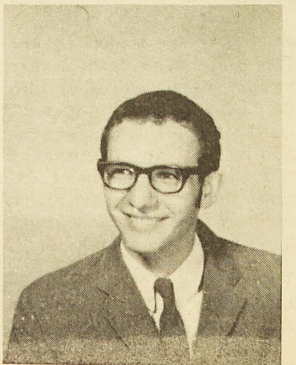
The men of Campus Club are proud to announce the selection of Norm Diebold as their candidate for Father Time.

Norm is a Senior, from St. Louis, and is currently majoring in electrical engineering.

During his three years as a student at UMR Norm has been very active on campus. He has been a member of AIAA, IEEE, GDI and has served as president of Thomas Jefferson Residence Hall. He has also participated actively in intramural sports.

Norm is planning on graduating in the fall of 1971.

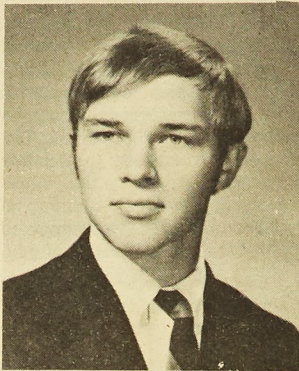
We, the men of Campus Club, feel that Norm has the academic as well as the leadership qualities which make a Father Time.



Norm Diebold

The men of Sigma Tau Gamma are proud to present Greg Kotys as their candidate for "Father Time." Although Greg has never been able to grow a beard, he can feel the part of Father Time as he begins his ninth semester in metallurgical engineering at UMR.

He is an alumni of the St. Pat's Board where he has served as vice-president and sales manager and has served as president and social chairman of Theta Tau. Greg has also served Sigma Tau Gamma as president, vice-president, steward, and social chairman.



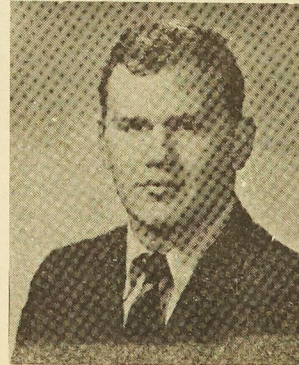
Greg Kotys

The men of the Missouri Miners Chapter of Triangle proudly present brother James Weyrzn as their candidate for Father Time. Jim, from East St. Louis, Illinois, is working toward his PhD. in physics. Graduating from UMR in 1968 with his B.S. in physics, he has taught mathematics here as well as physics at S.I.V.

Jim has been very active in his fraternity while being a Research-Assistant for the Graduate Center for Cloud Physics and a member of Gamma Alpha Delta. As a member of Triangle, Jim has diligently worked for his fraternity in the offices of president, assistant-steward and steward. He has also participated in many intramural sports including football, basketball, volleyball and softball.

Jim has made the dean's list consistently while at UMR and has been honored with the Outstanding Active and Scholastic Improvement awards from Triangle.

With due respect to our outstanding, oldest resident brother, the men of Triangle proudly present James Weyrzn as our candidate for UMR's Centennial Father Time.



James Weyrzn

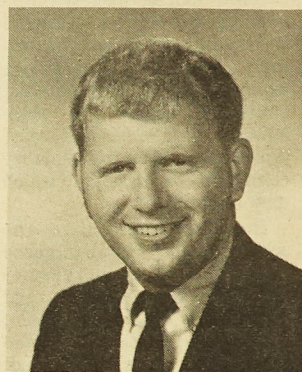
The men of the Men's Residence Halls Association are proud to present Roger Clemons as their candidate for Father Time to reign over UMR's Centennial Party weekend.

Roger, one of the busiest men on campus, is presently serving as President of G.D.I. and Vice President of the student body.

Other past offices on campus include President of the M.R.H.A., Treasurer and Vice President of G.D.I., and he has served as Chairman of the committee to organize Independent's Weekend since its formation in 1968. His efforts toward founding Independent's Weekend made him "Independent Man of the Year" for the 1968-69 school year.

Throughout his services the past four years to his organizations and the campus, Roger has developed a leadership ability and character known by most UMR students. The M.R.H.A. feels this alone qualifies him to be Father Time.

Roger is a Senior in Engineering Management and plans to graduate in May.



Roger Clemons

Glenn M. Kmezc is the Thomas Jefferson candidate for Father Time. He is currently a graduate student in the Engineering Mechanics department, after receiving his degree in Mechanical Engineering from UMR in 1969.

He has served on the dorm Publicity and Social Committees, the Judicial Board, and the Cabinet. He was Knighted by the St. Pat's Board in 1969.

Glenn has been a Personal Assistant for the past two years. He has been active in intramurals, both as player and coach. He is a member of ASME, NSME, and the Missouri Society of Professional Engineers.



Glenn M. Kmezc

Characterize UMR Life

The women of WRHA proudly present Pete Dawson as their candidate for Father Time.

Pete, a senior in Mechanical Engineering from New Madrid, Missouri, is a member of the MRHA. He has been quite active in campus affairs since his freshman year when he began his activities by working on the float and social committees for the MRHA. He has also been social committee co-chairman and Student Council Representative. His junior year he was initiated into Pi Tau Sigma, an honorary fraternity for mechanical engineers. In addition to the above activities, the twenty-one year old senior has also been a member of ASME, SAE, IK, and the Independents during his four years at UMR. Pete has been a Personnel Assistant in the dormitories for two consecutive years and has also received several scholarships during his academic career. He anticipates going to graduate school after receiving his BS.

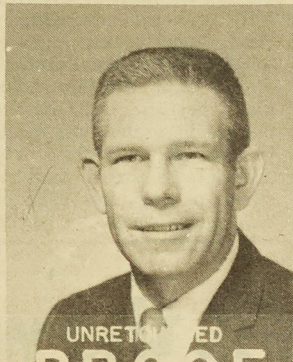
Some of Pete's hobbies include basketball, skiing, and hunting.



Pete Dawson

The brothers of Phi Kappa Theta are proud to announce Bro. Bob Wethington as their candidate for Father Time.

Brother Wethington has long been associated with UMR. He first entered MSM in 1951 for a total of one semester. Military Service beckoned and for 3 years Bob was a Seabee in the U. S. Navy, serving mainly in Japan and Korea. He received his Honorable Discharge in 1955, was married, and resumed his schooling. Financial problems caused him to quit school and though he has been taking courses since 1967, it wasn't until this year that he became a full time student once more. Presently Bob is working toward two degrees, a B. S. in Geological Engineering and a B. S. in Civil Engineering. Other current activities include being a member of the C. L. Duke Society, ASCE, and the Knights of Columbus, in addition to being a full-time husband and father. Bob's hobbies, when he has time, are camping with his family, hunting, and fishing.



Bob Wethington

Delta Sigma Phi's choice for "Father Time" is John P. Roderick, a psychology major from Ava, Missouri. John, at the ripe old age of twenty-five, has a student number of 06753, which dates back to the fall of 1963 when most of us were still in grade school. He started his education in electrical engineering when it could claim itself to be the newest building on campus.

In 1965, John took a study break to put in four years in the U.S. Air Force. He was stationed in Japan where he worked in the USAF Communications Service as an automatic switching systems technician. Before his release in 1969, he was made a staff sergeant, and finally, John decided to come back to school on the G.I. Bill.

Brother Roderick was initiated into Delta Sig on October 31, 1964, when the fraternity was only a forty-five man house. One of his contributions at that time was helping to plan for the present house, which is now almost four years old.

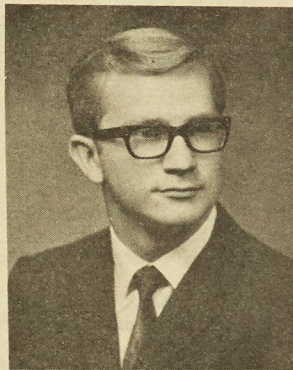
John has seen many changes at Rolla-the changing of its name, the dropping of mandatory ROTC, the new buildings and the curricula, but what he has notice .95 is a change in the atmosphere. This wise old philosopher says, somewhat nostalgically, a little paternally, but always with good perspective: "Rolla has changed considerably for the better in that words are now becoming as meaningful as numbers.

The candidate for Father Time from Shamrock Club is Donald Paul. Don, who earned his bachelor's degree in Electrical Engineering in May, is from Augusta, Mo. He compiled a 3.10 average as an undergraduate and is presently working toward a Master's degree in Engineering Administration.

Don was an active member of Intercollegiate Knights and served as Expansion Officer; he is also a member of Eta Kappa Nu and is serving as corresponding Secretary of Tau Beta Pi. Don has been a member of Shamrock Club since he entered UMR in 1966. He was elected to the Student Council from Shamrock, and he is a member of GDI and IEEE.

Don's scholarship abilities have earned him several Curator's Scholarships and a Jaycee Scholarship Award, as well as placement on the Dean's list seven times.

Don's hobbies include motorcycling, hunting, electronics, and music.



Donald Paul

Brother Deshazer first entered UMR in the fall of 1963 and is a founder and charter member of Kappa Phi and Delta Tau Delta. He has also served the Delta as St. Pat's representative and was honored in 1969 as a St. Pat's Knight.

The Brothers of Delta Tau Delta wish Brother Deshazer much luck in his race for Father Time and also this December when he will graduate with his B.S. in Mechanical Engineering.

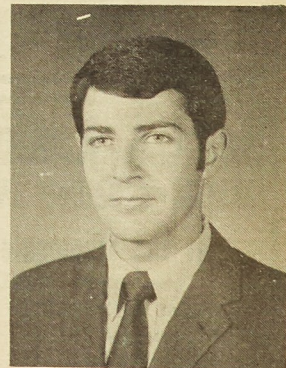


Alan Deshazer

The women of Lambda Sigma proudly present Tim Vicente as their candidate for Father Time.

Tim has been very active in campus activities. As a member of the Kappa Sigma social fraternity, he has served as Rush Chairman, Grand Master of ceremonies, and was chosen to represent Kappa Sigma at its 100th Anniversary Conclave in Richmond, Virginia. Other activities include: Literary and Music Director, vice-president, and president of the Student Union Board; president of IFC, treasurer of Theta; Alumni secretary of Blue Key; sergeant-at-arms and corresponding secretary of Alpha Phi Omega; treasurer of ASCE; circulation manager for the Miner; and president and pledge trainer for Circle K. He has also been a St. Pat's Knight, and served as the god Dionoses during Greek Week. Last year he also received the IFC's Man of the Year Award.

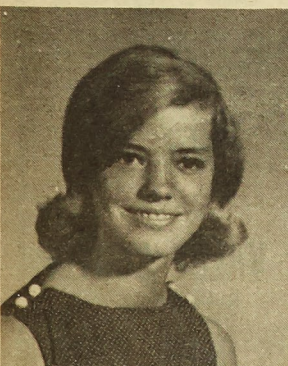
Tim has been very influential in helping to organize Lambda Sigma, and its members are very happy to have him as their candidate for Father Time.



Tim Vicente

More Queens For Father Time

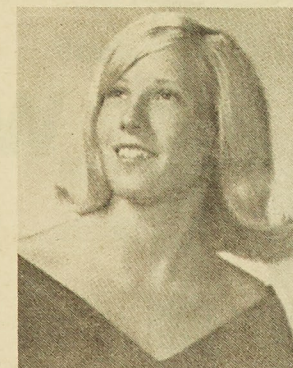
Representing Delta Tau Delta in UMR's Centennial celebration will be Diane Woods. Diane is 5'4, has blonde hair, and is a senior at Rolla High School. She likes reading, cooking, and swimming, and tells us her favorite subjects are History and English. Diane is a very attractive young woman who dislikes people who pretend to be something they are not. The Brothers of Delta Tau Delta are proud to present Diane Woods as their Centennial Queen candidate.



Diane Woods

Lendi Stettler is the Lambda Sigma Sorority nominee for Centinnal Queen. Lendi is UMR senior majoring in Mathematics and minoring in Aerospace engineering. She is an active member of Lambda Sigma Sorority, Hospitality

Committee, American Institute of Aeronautics and Astronautics, Society of Women Engineers, UMR Cheerleaders and the intermural sports program. After graduation she plans to either teach on the secondary level or work for an aircraft corporation.



Lendi Stettler

The men of Prospectors Club are proud to present Miss Marjorie Halbman as their Centennial Queen candiate.

Miss Halbman is a 5'2" brunette with hazel eyes who is currently employed by Hi Fashion Wigs of St. Louis. She was active in high school being in the school choir, school play and president of the Home Ec Club. Her Miner attributes include attending Homecoming and St. Pat's party weekends

last year.

The men of Prospectors along with her escort Marv Sindel believe that Miss Halbman would be a fine choice for Centennial Queen.



Marjorie Halbman

NOTICE!
The Happenings
Are Coming
6:00 P.M. Saturday
At The
Multipurpose Building

Kappa Alpha presents as their candidate for Father Time, Bill Litzinger. Bill is a married graduate student in Engineering Management and is carrying a 4.00 grade average in grad school while working as a graduate assistant and apartment manager. He graduated with his B.S. in Civil Engineering in the top 10 percent of his class. He is a member of five honor societies including Tau Beta Pi and Phi Kappa Phi. His honors include Distinguished Military Graduate, UMR First Honor Award, and three scholarships. He has served as treasurer of Kappa Alpha and has represented us for 5 years in student organizations, IFC Sing and 6 different intramural sports.



Bill Litzinger

The Brothers of Delta Tau Delta are proud to present Brother Alan Deshazer as their candidate for Father Time.

NOTICE!
MINER OFFICE HOURS
2 - 4:30
Monday through Thursday
Building T-214

Policies Outlined By Chancellor

September 16, 1970

Dear Student:

The fact that you are enrolled in UMR indicates your desire for a good education. We are interested in helping you obtain that objective and remind you that the full benefits of education, both inside and outside the classroom, can be gained only in an atmosphere where academic freedom prevails.

True academic freedom carries with it both rights and responsibilities. It allows the free exchange of ideas, the search for truth and the expression of opinions. It is not a license to interfere or deny these freedoms to others or to employ disruption, violence or mob tactics.

But if a university is to survive, to champion academic freedom, it must remain free from the inevitable pressures from an indignant public resulting from campus unrest. The University must be separated from political activity. For the University to issue a political opinion or to disrupt classes in the name of a political position, undeniably restricts the freedom of those who would hold another opinion.

It is our purpose and desire, as I am sure it is yours, that the University do everything possible to maintain orderly campuses that will provide a proper educational atmosphere. To accomplish this purpose we are taking three steps:

(1) We reaffirm the position outlined by President Weaver and adopted by the Board of Curators on June 30, 1968. The full text of that statement follows:

"The University of Missouri will at all times defend the right of free

expression of opinion, including the right of peaceful assembly. The University will, indeed, guard this right in behalf of all persons associated with the institution and will not tolerate actions by any individual or group that would seek to restrict the appropriate freedoms of any other individual or group.

"The University will not allow any unauthorized occupation of University facilities, nor will it permit any interference with its normal and regular activities.

"Discussion of issues within the University will in no circumstances be conducted under any form of duress.

"Attempts at unacceptable building occupation or interference with University business will be dealt with in a manner necessary immediately to relieve the situation.

"Any students or employees engaged in such activities will face immediate suspension, and may suffer ultimate dismissal."

(2) A statement of University policy on dissent and protest was adopted by the Board of Curators at its meeting on September 5, 1970. This policy outlines the responsibility of the faculty on holding classes; giving of grades only for work accomplished; and adherence to the academic calendar with no recess for political activity or protest.

(3) This campus has established a council composed of students, faculty, administrators and, as appropriate, members of the Board of Curators to make

plans for preventing disruption or violence and to act in an advisory and communication capacity in case some disruption actually occurs.

I am sure you realize that only by protecting the rights of everyone can we make your educational experience a rewarding one. We must not let a few disrupt the basic concepts and freedoms so important to a university community and interfere with your right to a full education.

I know that you understand that there are persons who are not members of the student body or staff of the University who may attempt to cause interference with the operation of the University. We shall take appropriate measure as may be necessary to deal with these people.

It is necessary that there be no misunderstanding on the part of anyone of the University's determination to meet its obligations to the public, to protect its academic integrity and to preserve the freedoms of every student. I earnestly seek your continued understanding, support and cooperation in seeing that these goals are accomplished. We have had a good record to date and continuing this good record is most important to your and to UMR's future.

Sincerely,

Merl Baker
Chancellor

SUPPORT THE
MISSOURI MINER

Glasphalt Strip Installed On Busy UMR Campus Road

A 525-foot-long by 20-foot-wide glasphalt strip was installed on a busy University of Missouri-Rolla road recently as part of a research project sponsored by the Bureau of Solid Waste Management, U. S. Public Health Service. About 180 tons of crushed glass were furnished for the project by the Glass Container Manufacturers Institute, which had around 20 representatives on hand for the installation. 105 tons of crushed glass were used in the pairing.

About one and one half inches glasphalt were installed on an existing road consisting of a stone base with asphalt surface.

The UMR strip is part of a test program to determine whether discarded glass containers can be substituted for the sand, gravel and stone ordinarily mixed with asphalt for standard paving. The strip, located on the road leading into the UMR General Services Building parking lot, north of Interstate Highway 44 at Rolla, will be traveled over by an estimated 125 cars and trucks per day. Wear on the strip by traffic and weather, and skid resistance will be tested for a period of at least two years by UMR researchers.

The idea for a glass-asphalt mixture was first conceived in a UMR ceramic engineering class. Students were asked to solve the hypothetical problem of what to do with throw-away glass bottles. One student thought disposable glass should be crushed and mixed with asphalt to be used for road and street paving. Research on using glass-asphalt for paving

has been going on at UMR for over a year under a grant from the Bureau of Solid Waste Management, U. S. Public Health Service. The grant has just been renewed through May 31, 1971.

The whole idea behind the research is this. Cities must dispose of tons of glass waste daily, and in many municipalities, the people dispose of nearly the same tonnage in waste glass as the city is buying in sand and stone for bituminous roads and streets. If waste glass can be used as the aggregate to mix with asphalt, rather than the conventional sand and stone, the problem of disposing of throw-away bottles will be solved. The money saved by not buying sand and stone aggregates for pavements, could be used to partially offset the costs of gathering and grinding the glass.

A test strip of glasphalt was recently installed by UMR and Owens-Illinois, Inc. on a street which is part of a parking lot at the Owens-Illinois Technical Center in Toledo, Ohio. A parking lot has also been paved with glasphalt at Anchor-Hocking in Winchester, Ind.

Research on the project is directed at UMR by Dr. Ward R. Malisch, assistant professor of civil engineering; Dr. Delbert E. Day, professor of ceramic engineering and director of the Industrial Research Center; and Dr. Bobby G. Wixson, associate professor of environmental health and associate director, International Center.

Alex 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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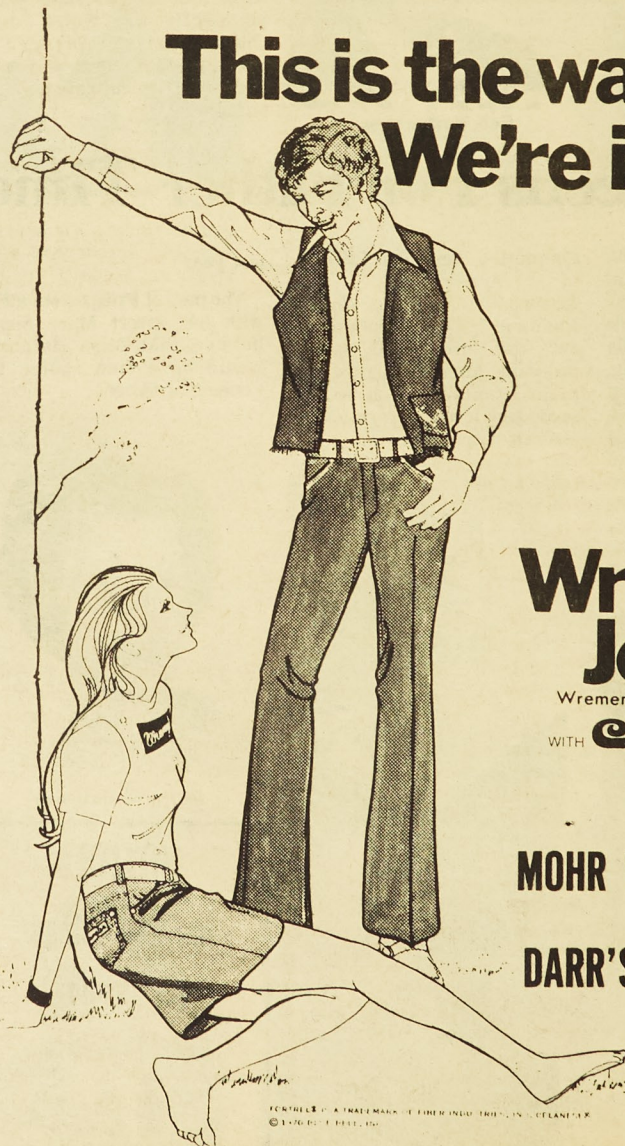
- * AM-FM, Built In AFC
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- * Built In AC Adaptor
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You May Inspect A Model At The Student Union On Sept. 21-Oct. 2, When Orders Are Being Taken.

Delivery Date Is Approximately Oct. 25.

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Rolla, Mo.

DARR'S DEPT. STORE
Rolla, Mo.

Job Interviews

Reynolds Metals Company	Sept. 28, 29
Chevron Oil Company-The California Co. Division +	Sept. 29,30
Oklahoma Gas & Electric Company	Sept. 29
Federal Aviation Administration	Sept. 29
Island Creek Coal Company	Sept. 29
Illinois State Division of Highways	Sept. 29,30
Kennecott Copper Corporation	Sept. 29
General Mills, Incorporated	Sept. 30, Oct. 1
Missouri Portland Cement Company	Sept. 30
Defense Contract Administration	Oct. 1
Texas Eastern Transmission	Oct. 1
Grain Processing Corporation	Oct. 1
Beloit Corporation	Oct. 1
Laclede Gas Company	Oct. 1
City of Kansas City	Oct. 1
Union Oil Company of California +	Oct. 1
Penn Ctonrols, Incorporated	Oct. 1
Charles Pfizer & Company, Inc. +	Oct. 1
Fruin-Colnon	Oct. 1
Wilcox Electric Company, Inc.	Oct. 1
Standard Brands, Incorporated	Oct. 2
Youngston Sheet & Tube Company	Oct. 2
Illinois Department of Public Works,	
Division of Waterways	Oct. 2
Anderson Clayton Foods	Oct. 2
+ Summer employment	
Visit the Placement Office in the Buehler Building, 9th & Rolla Streets, for further information.	

1970-1971 Calendar University Of Missouri Rolla

Fall Session - 1970

New Student Orientation & Registration	Aug. 24 Monday
Continue New Student Registration	Aug. 25 Tuesday
Upperclassmen Registration 12:30 p.m.	Aug. 25 Tuesday
Continue Registration	Aug. 26 Wednesday
New Student Orientation & Registration ends	Aug. 26 Wednesday
Classwork begins, 7:30 a.m.	Aug. 28 Friday
Labor Day Holiday	Sept. 7 Monday
Missouri Industry Day	Sept. 22 Tuesday
Parent's Day	Oct. 10 Saturday
Mid-Semester	Oct. 21 Wednesday
Homecoming	Oct. 23-24 Fri.-Sat.
University Day & National Merit Day	Nov. 14 Saturday
Thanksgiving vacation begins, 7:30 a.m.	Nov. 25 Wednesday
Thanksgiving vacation ends, 7:30 a.m.	Nov. 30 Monday
Final examinations begins, 7:30 a.m.	Dec. 14 Monday
Final examinations end, 5:30 p.m.	Dec. 19 Saturday
Winter Commencement, 2:00 p.m.	Dec. 20 Sunday

Spring Session - 1971

Registration begins, 8:00 a.m.	Jan. 18 Monday
Registration continues	Jan. 19 Tuesday
Classwork begins, 7:30 a.m.	Jan. 21 Thursday
Spring recess begins, 7:30 a.m.	March 18 Thursday
Spring recess ends, 7:30 a.m.	March 22 Monday
Mid-Semester	March 23 Tuesday
Science Fair	April 2-3 Fri.-Sat.
Easter vacation begins, 5:00 p.m.	April 3 Saturday
Easter vacation ends, 7:30 a.m.	April 12 Monday
Final examinations begin, 7:30 a.m.	May 17 Monday
Second semester closes, 5:30 p.m.	May 22 Saturday
Annual Commencement, 2:00 p.m.	May 23 Sunday

Summer Session - 1971

Registration	June 7 Monday
Classwork begins, 7:00 a.m.	June 8 Tuesday
Independence Holiday	July 5 Monday
Summer Session closes, 12:00 noon	July 31 Saturday

Approved by the Faculty - March 18, 1969
Revised by the Faculty - February 10, and March 10, 1970



THE MISSOURI MINER is the official publication of the students of the University of Missouri - Rolla. It is published at Rolla, Mo., every Wednesday during the school year. Entered as second class matter February 8, 1945, at the Post Office at Rolla, Mo. 65401, under the Act of March 3, 1879. The subscription is \$1.25 per semester. This Missouri Miner features activities of the Students and Faculty of UMR.

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NOTICE!

The Wesley program will be September 16, with Father Carlo, speaking on Church & Race in So. Rafrisa at 6 p.m. at the Wesley House, 403 West Eighth Street.

NOTICE!

MINER OFFICE HOURS

2 -- 4:30

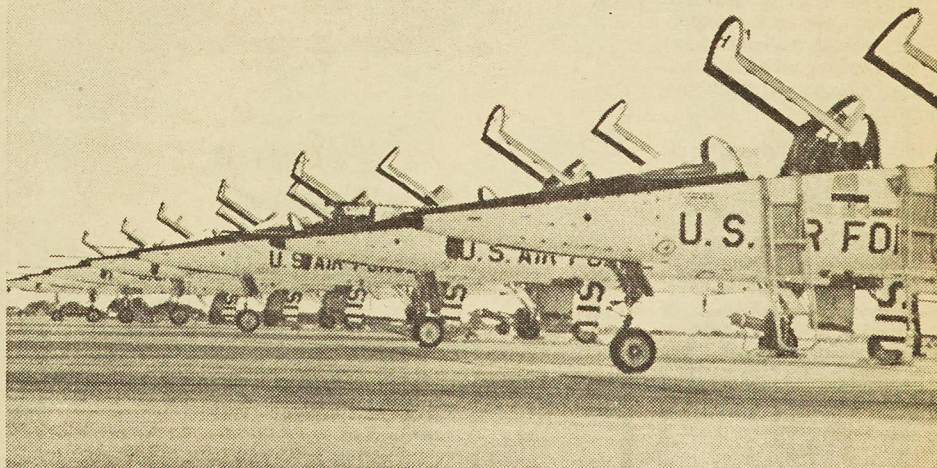
Monday through Thursday

NOTICE! -

Student Union Board Committee Applications for Student Union board are now available at the student union candy counter.

You can start in the mailroom, or you can start on

executive row.



Most people say you have to start at the bottom no matter how high you want to climb.

Is that really so?

Maybe it's a story they tell just to get people to start at the bottom.

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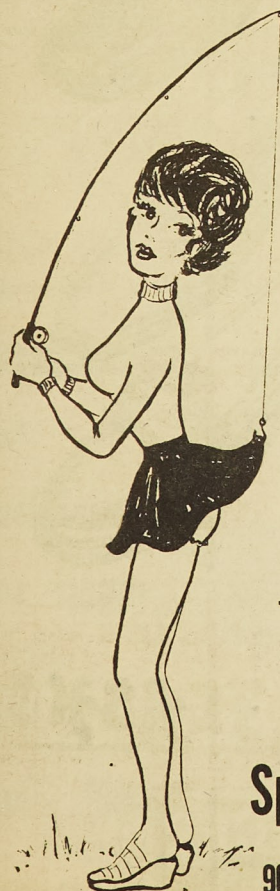
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Address _____

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Miners, Bears Clash In Season Opener

Experienced Wash. U. Backfield Poses Threat For Golden Horde

Miners Graduate Six All-League Selections

By Bill Horsford

The Washington University Bears will make their initial appearance on the University of Missouri-Rolla's gridiron September 19 in hopes of avenging last year's 40-0 slaughter at the hands of the Miners. The "Battling Bears" have a much revamped team and could pose a threat to the Miners in one of the oldest rivalries in Missouri football. En route to a 2-7 record last season, the Bears conquered Wabash College 33-10 and Washington & Lee 20-12, but lost by such scores as 46-0 to U.S. International College and 30-12 to Centre College. The Bears scored less than half the number of points as did their opponents in last year's campaign, but things are looking better this year.

Multipurpose Activities Now In Full Swing

By Dave Antonucci

The UMR Multipurpose Building sports one of the finest athletic complexes in Missouri and is maintained for use by students and faculty as well as varsity. Athletes may choose between handball, gymnastics, wrestling, weightlifting, basketball, volleyball, swimming, badminton, or just running. The hours that the building will be open are 9:00 a.m. until 9:00 p.m. Monday through Friday with the exception of Wednesday when the gym will be limited to faculty only from 6:00 p.m. until 9:00 p.m. On Saturday and Sunday the building will be open from 1:00 p.m. until 4:30 p.m. only. The building will be closed, however, during home varsity football games.

All coaches can be contacted at the Multipurpose Building by calling 364-2345. If a coach is not in, two full time secretaries will give the number at which they can be reached.

This Saturday, tickets for the football game against Washington University may be purchased for \$1.50 at the office of the Multipurpose Building from 8:00 a.m. until 12:00 noon. At the gate, tickets will cost \$2.50 for nonstudents, so get your tickets early and save.

Coach Dick Martin suffered last year from a serious lack of depth, but with strong recruiting has remedied that problem with a flock of freshman hopefuls. The biggest problem Martin will have is fitting the newcomers into his system.

The Bears have two seasoned quarterbacks in Ron Piel and Jeff Daube and capable running backs in Stan Gardner and Lenzie Stewart. Stalwart pass-catchers Kerry Drulis and Jim Palermo will also bolster the offensive attack. The squad was hurt somewhat when veteran right end Gary Lisch quit for personal reasons. The offensive line features sophomore Paul Fitzgerald at guard, and Martin predicts that Fitzgerald will be All-CAC in 1970.

The defensive line sports senior veterans Greg Glass and Bruce Glover at guard and halfback respectively, and numerous other younger players who saw plenty of action last year.

The Miners, on the other hand, are hoping to top last year's score of 40-0. This will be a difficult task to accomplish, since the Miners lost several

key players, both offense and defense. Triple threat man Larry Oliver graduated, as did All-American guard Frank Winfield. All-conference tackle Alan Zaborac also will be missing from the offensive line, plus of course quarter-back Jack Grawe.

Defensively, the team will be playing without the services of All-Conference Linebacker Joel Stroud, defensive captain Leonard Stout, and safety Ed Lane.

The Miner coaching staff has produced capable replacements for these open spots, however, especially at quarterback and defensive safety, certainly two of the key positions on any football team.

If the Washington U. Bears and the Miners both play up to their pre-seas potentials, the first trip of Washington University to Rolla could be the beginning of a long and spirited rivalry between the two teams. Certainly the game this year will be a closer contest than last year's 40-0 romp. It will take a great combined offensive and defensive effort for the Miners to defeat the revamped Bears of Washington University.

1970 marks the centennial year for the University of Missouri-Rolla football Miners. Therefore, it is only fitting that they will face opening game rival Washington University here Saturday (Sept. 19) with a combination of both new and old. The gridders from Rolla—who will be sporting new silver and gold uniforms—lost only 8 seniors from last year's 7-2 squad. But, according to head coach Dewey Allgood, those eight may be hard to replace: "Of the graduates off last year's team, we lost six first or second team all-league selections plus two of our three quarterbacks." However, the head mentor feels he can find capable replacements from a list of 33 returning lettermen and a group of 40 new recruits.

The Miners are probably strongest at defense where they present a veteran 11-man "Golden Horde". Up front the Miners lost first team all-conference Leonard Stout, but the rest of the five man line

remains intact. Steve Arant (Two year letterman from Popular Bluff) and Dennis Doering (a sophomore numeral winner from St. Louis-Lindbergh) are in the midst of a battle for the one opening. Gregg Anderson (sophomore letterman from Chicago, Ill.) will also give some added depth to the left defensive end slot. Bill Milfelt (junior-St. Louis) and Darrell McAllister (senior-Lebanon) will return to their respective left and right tackle positions. Letterman Don Long will provide plenty of back-up support. Mike Moore (senior-Greenfield) will once again fill the nose guard position and sophomore Rich Hayek will help in a back-up role. Senior Right End Dave Williams (St. Louis-Mehlville) will round out the defensive line.

Gone from the most productive defensive secondary in the MIAA conference are second team all-conference Linebacker Joel Stroud and all-

(Continued on Page 12)

SPORTS LINE-UP

VARSITY FOOTBALL

Sept. 19	UMR vs. Washington U.	Here
Sept. 26	UMR vs. Mo Valley	THERE

VARSITY CROSS COUNTRY

Sept. 28		Here
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INTRAMURAL FOOTBALL

SEPTEMBER 16

6:00	P-Club vs. Pi Kappa Phi	East
6:00	Triangle vs. MRHA	West
7:30	TEKE vs. Campus Club	East
7:30	Beta Sig vs. 59'ers	West

SEPTEMBER 17

6:00	Sig Tau vs. A.E. Pi	East
6:00	KA vs. Delta Sig	West
7:30	Pi KA vs. T.J.	East
7:30	Kappa Sig vs. Delta Tau	West

SEPTEMBER 18

6:00	Sigma Nu vs. Triangle	East
6:00	Shamrock vs. P-Club	West
7:30	Sigma Pi vs. MRHA	East
7:30	Engine vs. Pi Kappa Phi	West

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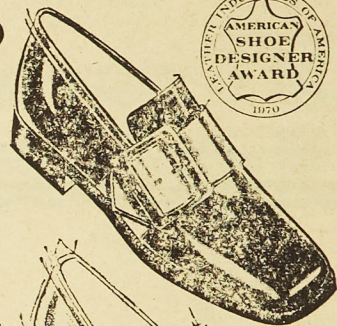


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FLASH!



Miners Hold Intra-Squad Scrimmage

First Team, Defeats Subs, 17-0 Godwin, Sommerville Tally

By Bill Horsford

The Miner football teams first scrimmage of the 70-71 season provided both encouragement and a note of warning so far as the outcome of the regular season is concerned. On the plus side, the first team easily handled the reserves by a score of 17-0. The Td's came on a Pat Godwin to Bob Sommerville pass in the first half and then in the second half, Godwin sneaked the ball over from the one. The final three points were provided by a field goal by Clyde Blace.

Both of the touchdowns, however were set up by mistakes of the second-string offense. One was brought about by a fumble while an intercepted pass brought the offense into range for the other six-pointer. Coach Allgood was a bit concerned about the lack of a sustained drive on the part of his first string offense, but observed that the team was composed mainly of veterans

who were working themselves into shape. He described the overall team condition as fair, and was especially pleased with the play of the second units, who looked very good against the veterans. The hitting was not up to mid-season crispness, but the muggy heat was more at fault than any lack of enthusiasm or spirit.

The offense was spearheaded by the running of Steve Kubiak and freshman Bernard Givens. Givens is 5'11" tall and weighs 185. He graduated from De LaSalle in Kansas City, Missouri. Rich LaFollette and Dale London each made a good showing at the quarterback position, adding depth to a key spot.

The general optimism of the practice was marred when All-MIAA linebacker Ed Hanstein was injured. Ed broke his thumb and will probably miss three or four weeks of the

season. Although this does hurt the defense, it will not be a crippling blow, since there are a number of men who can step in and do the job. Sophomore Tommy Williams, freshman Randy Kofahl, or Steve Arant are among the possibilities.

The scrimmage must be viewed as impressive since the first teams both defense and offense displayed the ability to handle their opponents, even if they were only the second-string team. It was excellent tune-up for the first contest of the season. Although the play was not as sharp as it could have been, the seasoned veterans on the team will undoubtedly be ready when the chips are down. It was more a case of playing into shape, than an actual game-type competition. If their first scrimmage was any indication, the Miners should hand a real tough game to the Washington U. Bears on the 19th of September.

Sidelines

By Glen Jensen

The season's opener is practically upon us and the "Mighty Miners" will be trying to get off on the right foot against the Bears from Washington University. With their depth and taking into account last year's solid trouncing, the Miners seem to be a shoo-in in their initial encounter. However, Wash. U. head coach Dick Martin has more personnel than last year and seems very determined to avenge last year's setback. Taking these factors into account, I would like to venture a prediction: UMR 28-Wash. U. 14.

Practically all varsity squads are regrouping their forces for their 1970-71 seasons, and everyone is well ahead of last year's conditioning. The baseball squad has already had one meeting and plans to get in some early training in order to avoid the situation which they faced last year. The baseballers had only one day of practice outdoors due to bad weather before their opening doubleheader, which they subsequently lost. If you plan to play baseball next spring, contact Coach Rhea at the Mechanical Engineering Building. Prospective swimmers should also get in touch with their coach, Bob Pease, at the Multipurpose Building.

MISSOURI INDUSTRIAL DAY

September 22, 1970

From 12 Noon To 8 P.M.

Multipurpose Building



Coach Allgood halts play to explain a point in the first intrasquad scrimmage.

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"When you're out of Schlitz, you're out of beer."

Broyles Distr. Co.

Rolla, Mo.

Miner Grid Preview

(Continued from Page 10)

league Safety Ed Lane. However, the Miners do return a two-time all-league selection in left Linebacker Ed Hanstein (Mexico, Mo.), an all-conference defensive halfback in Fred White (senior-Kansas City Centrél) and a second team all-conference defensive halfback in Joe Passantino (junior-Kansas City, Northeast). Passantino and White last fall tied for league honors with eight interceptions each. Manning the vacated linebacker slot will be either Steve Walker (a three-time numeral winner from Novelty, Mo.) or Arant. The third defensive halfback slot features returning starter Mike Hearst (junior-Barnhart, Mo.) Newcomer Bruce Stone (sophomore-St. Louis, Parkway Central) will fill the safety position. Stone, who was ineligible last fall, came to the gridiron via the Miner basketball squad. Freshman Frank Walsh (Chicago, Ill.) will give the Miners added depth in their thin secondary.

On offense the Miners will start only one senior in co-captain Fullback Bob Berry. All the other starters are juniors, except for two sophomores on the line. Pat Godwin (Cape Girardeau, Mo.) will call signals for the Miner offense with Berry (senior-Rolla, Mo.) and Les Clark (junior-Harrisonville, Mo.) leading his ground attack. Clark, the Miners leading ground gainer last season with 747 yards in nine games, will also handle the punting chores. Bob Somerville (junior-Chicago, Ill.) will fill the wingback position where he led UMR in pass receiving last year with 37 grabs and three touchdowns.

With the season opener this weekend, the Miners are stacking up as a definite MIAA conference contender with a starting line containing 21

lettermen and 16 returning starters from last fall's third place team.

Student Forum

June 23, 1970

Dear Mr. Schreiner:

Please let me congratulate you and your associates on the splendid university activities that were recognized at the Gamma Alpha Delta banquet early in May. I have read the press release with much appreciation and hope that you will convey to those who took part in this worthy community service the approval that many of us elsewhere in the country feel for this kind of constructive approach to our common problems.

With every good wish.

Sincerely yours,

Alexander Heard
Special Advisor

Coach's Corner

..... Dewey Allgood

By Pat Lyons

Among the familiar faces of some thirty-three returning lettermen and a veteran coaching staff, the stern face of Coach Dewey Allgood is certainly not new to Miner football fans. The 1970 season marks Coach Allgood's seventh year as

Head Football Coach at the University of Missouri at Rolla.

Coach Allgood came to UMR in the fall of 1950 after coaching at Northwest Missouri State College at Maryville. A native Mississippian, he graduated from North Dakota State where

he played football, basketball, and baseball. Coach Allgood received his Master's Degree from Colorado State College.

His first position at the Missouri School of Mines was Head Basketball Coach. While serving in this capacity, he also was assistant football coach to Gale Bullman. When Coach Bullman gave up his head football assignment in 1963, Coach Allgood moved to the head of the gridiron staff.

Since that time, Coach Allgood has made steady progress with the Miners. Although his overall record is 19-38 with UMR, he has continued to improve upon his season records from a 1-8 season in 1964 to a 7-2 record last year. Last year's record was the best of any Miner squad since joining the MIAA conference in 1934.

Coach Allgood and the entire staff are looking forward to improving that record this year. With a host of lettermen and promising rookies, Coach Allgood feels that he has his most talented UMR squad, and high hopes for another record setting season.



Coach Allgood

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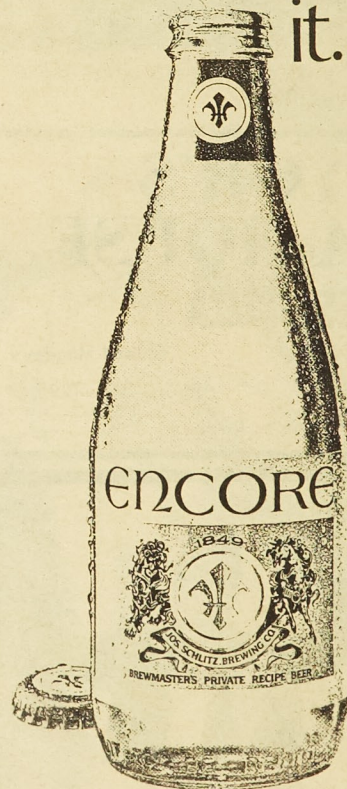
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3. Second & Third Jumps Must Be Without Touching Frog
4. All Three Jumps Must Be Completed Within Five Minutes From Starters Signal
5. Distance Will Be The Direct Line Distance From Final Position To Starting Point... Not Total Distance Jumped

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