



24 Nov 1937

## The Missouri Miner, November 24, 1937

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# THE MISSOURI MINER

MISSOURI SCHOOL OF MINES & METALLURGY

Z385

VOLUME XXIV

ROLLA, MO., WEDNESDAY, NOVEMBER 24, 1937

NUMBER 11

## Mrs. Martin Johnson To Lecture Monday

### Famous Explorer To Appear on General Lectures With Film "Jungles Calling"

Next Monday evening at the Rollamo Theatre, Mrs. Martin Johnson, of movie fame as a jungle explorer, will give the third of the General Lectures series of programs. Admission will be by General Lecture tickets and activity cards as usual.

OSA JOHNSON is at present on her second lecture tour, illustrating with the most exciting adventures in all the Johnson films, the lecture entitled "Jungles Calling."

She is the widow of the late Martin Johnson, internationally-known motion picture explorer, who lost his life when a Western Air Express transport crashed near Lost Angeles last January. Mrs. Johnson suffered a fractured knee-cap but very gamely continued the lecture tour they had started together. She afterward went to Africa as Supervisor of the Arican sequences of the feature picture Twentieth Century-Fox is making, based on the lives of the explorers

## Theta Tau Initiates New Members

R. C. Cornett, R. D. Dallmeyer, H. F. Gerwin, D. Jaenecke, H. S. Kidd, G. E. Machens, J. R. McCloskey, A. E. Rhodes, and W. D. Waters were initiated into the Iota Chapter of Theta Tau Fraternity last Thursday. The initiation was held in the club room that afternoon at 5:00 and was conducted by the members of the local chapter.

The banquet in honor of the initiates was given at the Sinclair Pennant Tavern that night at 6:30. Graduate and honorary members present were Dr. H. A. Buehler, Prof. S. H. Lloyd, Dr. C. V. Mann, and Mr. E. K. Schuman. Prof. Lloyd acted as Master of Ceremonies. Dr. Buehler made a short talk in which he welcomed the new members. The reply to Dr. Buehler's talk was made by J. R. McCloskey. Prof. Lloyd then presented each of the initiates and had them take a bow. Then E. B. Lanier, Regent of the Iota Chapter, made a short talk.

Prof. Lloyd then introduced Mr. Robert Paul Lyons, Jr., the principle speaker of the evening. Mr. Lyons is General Manager of the Readmix Cement Company, Kansas.

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## PHOTOGRAPHY CLUB

An original scheme for determining the time of exposure in photographic enlarging was outlined by Professor Millar before the members of the Photography Club on Friday evening, in a lecture which also dwelt upon the construction of enlarging apparatus and a novel method of making Christmas cards.

The Club announced a series of three lectures to be delivered by Doctor Cooke commencing on the first Friday in December. Subjects will be the construction of cameras, and details concerning films and printing paper.

## TRIANGLE FRATERNITY GIVE ENTERTAINMENT

The Triangle Fraternity entertained its honorary members and about twenty M. S. M. students at a "smoker" given in the chapter house last Friday evening. A variety of cigars and cigarettes was offered and an enjoyable evening of good fellowship was spent by all. A delicious luncheon of cake, hot chocolate, and ice cream was served during the course of the evening.

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## A LITTLE GORILLA IN YOUR HOME!



Osa Johnson and a gorilla, which is the largest, and supposedly the most ferocious, of the great apes. One of the many friends among wild animals which Mrs. Johnson made in the years

she spent with the late Martin Johnson, motion picture explorer, in the jungle. Her latest lecture film "Jungles Calling", with Mrs. Johnson in person, will be shown soon, under the management of Clark H. Getts.

## Noble Speaks To A.S.M.E. on Petroleum Industry

Monday night, November 15, the A. S. M. E. was favored with an address on the Petroleum Industry by Professor Noble, Professor of Petroleum Engineering.

Professor Noble first gave his audience an idea of the magnitude of the industry and its early history which began about the middle of the 18th century. The following interesting information was revealed:

Though the Petroleum Industry is comparatively new, it is well developed. It comprises yearly about one third of the total mineral wealth of the United States. The supply of petroleum is practically inexhaustible, as the known supply today will furnish the country with petroleum products for several thousand years. There is a growing need for mechanical engineers in the oil field. They are used for the designing of drilling equipment, welding, and the designing of safety measures. The industry does not

Continued on page four

## Hugh R. Berry Talks Before Chemical Engineers

Mr. Hugh R. Berry, technologist of the Manufacturing Department of the Shell Petroleum Corporation at Woodriver, Illinois, and M. S. M. alumnus of the class of '25, in Chemical Engineering, presented a lecture under the auspices of the Alpha Chi Sigma Fraternity and the Ira Remsen Society on the subject of "Non-Routine Chemical Engineering", last Wednesday, November 17.

Mr. Berry's address was based on the extra-routine experiences he had while in the employ of the Shell Corporation in various plants throughout the country. Such things as finding the cause and effecting a cure for the phenomenon of "balls of fire" playing about inside a thousand barrel gasoline mixing vat, or tracking down the imperfection in a gasoline that has for years been used successfully by aviation concerns but suddenly causes numerous forced landings all over the country. By enumer-

Continued on page four

## U. S. Hydraulic Engineer Addresses A. S. C. E.

### Mr. J. C. Hoyt of U.S.G.S. Speaks on Prospects of C. E.'s. Gov. Jobs, And His Dust Bowl Survey

Mr. J. C. Hoyt, Consulting Hydraulic Engineer of the United States Geological Survey and Vice-president of The Am. Soc. Civil Engineers from Washington, D. C., addressed the local student chapter of the American Society of Civil Engineers last Tuesday evening, Nov. 16.

In introducing the speaker, President Bert Lanier stated that Mr. Hoyt was passing on an inspection trip and had agreed to give an informal talk to the student chap-

ter. Mr. Hoyt stated that he was on an inspection tour of the various stations of the U. S. G. S. and State Geological Surveys. Cooperating. He said his trip would take him from Rolla to Ft. Smith, Ark., and then to the West Coast States. The principal topic of his talk was the condition and prospects of a civil engineer just out of college. He said most students did not consider the possibility of having to take a job in a foreign country. Nine times out of ten, the graduate has no money with which to finance himself and must take whatever is offered him, if he intends to follow the profession for which he has been trained. He must start on the ground floor. As to the possibilities of a government job, Mr. Hoyt stated that they were small compared to previous times. He said that where there was a turnover of 20%-40% in previous years, the only turnover now was those who died or resigned. He said none resigned and few died, which made an engineering position with the government even more desirable. The salary might not be as great, but the job is more permanent. The engineer just graduated desires a position that he can be sure of as long as he does his duty—one that doesn't end when one job is finished. This is why government positions are popular with students. The

Continued on page six

## Blue Key To Build Electric Scoreboard

An electric scoreboard for the gym was the main topic of discussion at the Blue Key meeting last Wednesday night. Last year a campaign was started for the erection of such a scoreboard and the construction of it was started, but it was never finished. Blue Key plans to complete its construction and have it up by the time the basketball season starts. According to present plans, the scoreboard will be erected as high as possible at the north end of the gym and will be operated by remote control from the gym floor. Omar Walley, Joe Murphy, and Jack Long comprise the committee that is looking after the scoreboard.

Blue Key is also going to continue its "KEEP OFF THE GRASS" campaign on through the winter. With the alternate freezes and thaws that are to come it will be necessary for the students to stay on the walks if a good growth of grass is expected next spring.

The final business of the meeting was the assessment of a monthly dues of forty cents against each member. This money will be used to continue the monthly luncheon which has become a feature of the Blue Key fraternity.

Continued on page six

## THANKSGIVING DANCE

Over a hundred couples attended the Thanksgiving Ball at Jackling Gym last Saturday night. Emil Velazco and his famous orchestra, featuring his \$25,000 portable pipe organ, made a great hit with all.

We were indeed fortunate to have the opportunity of dancing to such an orchestra. Here's to the St. Pat's Board, and may we have many more orchestras like this one.

## When? What? Where?

WEDNESDAY, NOV. 24

Ira Remsen, 7:30 p. m. Chem. Bldg  
Lambda Chi Dance

THURSDAY, NOV. 25

Football—Cape Girardeau, at Cape Girardeau  
Thanksgiving—Turkey Day

MONDAY, NOV. 29

General Lectures, 8 p. m., Rollamo Theatre  
Mrs. Martin Johnson in "Jungles Calling"

TUESDAY, NOV. 30

A. S. C. E., 7:30 p. m., Norwood Hall  
Miner Board, (Editorial), 7:00 p. m., Power Plant

WEDNESDAY, DEC. 1

Alpha Chi Sigma, 7:00 p. m., Chem. Bldg  
Student Council, 7:30 p. m., Club Room



# THE MISSOURI MINER



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FACULTY ADVISER ..... DR. J. W. BARLEY

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## WHERE HAVE THEY GONE?

The coming of spring in '37 brought to our campus a fire that burned brightly in the soul of every student. We all fought, pleaded, begged, and worked for the establishment of a 'REPRESENTATIVE AND WORKING' Student Council. Such an organization was founded to carry out the ideas and interests of the student body. You have noticed, on the front page of this paper, an occasional stir of activity, but it has been a slight stir, and occasional. All these statements will be met with the rebuttal that nothing has been brought up by the various representatives to warrant any action on the part of the Council. There are conditions existing on this campus that individual students are afraid to do more than think about. . . . they do not feel that they will have the support of the student body should any of their statements, though true, be questioned by the controlling faculty. They have had no evidence of any support. One of the aims of the Student Council was to attempt to unite the student body into a solid and compact group. When does this work start? The student body does not require an entertainment, to have a mass meeting. Certain departments on this campus have not been approved by groups that Industrials Concerns refer to for graduate selection. Is this not of enough interest to grant a reasonable explanation to the student body? Does not need for new equipment, new buildings, the existence of disgruntled faculty groups, the fact that some of our professors have not been back to school or industry since they have joined our faculty, the existence of a 'back-biting' political system operating in every student controlled group on the campus because of the lack of a major interest such as the Missouri School of Mines, does not all this warrant some action by the Student Council? It not only warrants it, but it demands action. Not an occasional mass meeting, but several of them with men to give to the students some of the facts of the case. Lots of the above items should ordinarily be handled by an interested alumni group, but conditions make that impossible here at the Missouri School of Mines. Our Alumni are spread too far apart to work as the normal State University Alumni group operate. The development and betterment of our school rests to a great extent in the hands of the student body. Therefore the student body must become strong. Fraternity men must remember that M. S. M. is first; the Independent too must give first consideration to the school. Last spring we created an organization to help unite the students. . . . they have done some good work, but not enough to augment a vacation. Let's have mass meetings, not just before a football game, let's have them two or three times a month and get everybody interested in what the School of Mines is all about. Remember that modern science hasn't found a method to destroy the Power of Numbers in every case.

## Keeping Up With Science

By Science Service

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## How Long Will Our Fuel Supply Last? Here's the Answer

### There's Plenty of Coal, but Oil's Running Short

New York. — Unless new methods of obtaining and processing petroleum are developed, America may begin to feel the cramping hand of an oncoming oil shortage in from 10 to 20 years. This is the verdict of Dr. Arno C. Fieldner, chief of the technology division of the United States Bureau of Mines.

Dr. Fieldner outlined the present resources of the nation's fuels.

Of coal America has plenty, said Dr. Fieldner. Enough to last hundreds and perhaps a thousand or more years. But natural gas and oil obtained by present methods may be exhausted in less than a century, he warned.

### Trend Favors Coal.

Here is the significant forecast of Dr. Fieldner on America's future fuels:

Coal will continue to be the chief fuel for the generation of public utility and major industrial power. While improved burning of coal might tend to decrease consumption and the further development of water power may be expected to increase, Dr. Fieldner sees an increasing demand for total energy needed by the country so that coal's relative position should be favorable. Moreover, after 10 or 15 years oil resources will become more difficult to exploit, so that the trend will be the increased consumption of coal.

"Tomorrow's power and central heating plants will burn any kind of coal completely and efficiently," said Dr. Fieldner. "There will be no smoke, no dust, and no sulphurous gases emitted to the atmosphere."

### Heating Costs Remain Steady.

No substitute for metallurgical coke has appeared, continued Dr. Fieldner. The coke-oven industry should expand. Regulations prohibiting the waste of natural gas and the urge for additional markets will lead to the construction of more long-distance pipe lines which already go from Texas to Chicago and to Detroit. Gas will find industrial and domestic use and will displace oil as well as coal for fuel in some places. As natural gas approaches exhaustion gas from coal will take its place.

Dr. Fieldner sees a further use of automatic coal and gas heating of homes and believes improved insulation will permit heating at about the present costs, despite the inevitable advances in the price of the fuel.

While oil-fuel Diesel engines on railroads may be expected to increase, Dr. Fieldner foresees coal retaining its predominance as the fuel for freight traffic throughout the age of oil and natural gas.

Three-fourths of the world's shipping is now powered by oil fuel. Oil in fact, has energized marine transport.

On the crucial question of gasoline supplies for automobiles Dr. Fieldner regards present pessimistic fears of a shortage by 1945 as unjustified. Such warnings, he points out, have been issued regularly since the automobile came into use. Scientific research, both in cracking heavy oils to yield more gasoline and the reverse process of polymerization where gasoline is created out of lighter gaseous vapors, should hold the production to levels of demand, states Dr. Fieldner. Improved scientific prospecting for new reserves of petroleum and the drilling of deeper wells to tap now-unreachable sources should be a further aid for the next two decades.

## KILPATRICK STARS AT SHOOTING EVENT

One of the most outstanding riflemen at the Seventh Annual Southwest Missouri Outdoor Shooting Tournament held at Monett, Missouri, October 16-17, was Professor Kilpatrick. He is considered one of the best riflemen in the country and has for many years been actively engaged in this sport. This meet which is registered by the National Rifle Association is characterized by great competitive skill, and is considered one of the most important in the state.

One of the most important matches of the Small-Bore Wimbledon which consists of 20 shots at 200 yards using any sights. In 1936 the record was 192-3x. The bulls eye of the target consists of a circle of 2 inches diameter inside of which is described a dotted circle of 7-8 inch diameter designated as X. This year the Wimbledon match was won by Professor Kilpatrick with a record breaking score 194-10x, winning for him the permanent possession of the coveted gold and silver M. R. & C. Trophy. According to all obtained data this record is not only high for all state high for all state matches but constituted a world's record for the event.

One of the most outstanding events to characterize this record was the fact that the rifle used by Kilpatrick was made at M.S.M. The stock was turned out of native walnut and the other parts out of carefully selected materials. The barrel of the gun however, was once a Model-T axle but was so carefully designed and made that subsequent tests by experts have proven it to be one of the most accurate rifles of its kind in the United States. The rifle is strictly an MSM product even to its telescopic sights which were made by him at this school. His inability to purchase rifles of great accuracy led to his interest in designing and making his own. He has made many rifles but this one which is called the 'hornet' is his masterpiece both in beauty of design and in accuracy.

In the 200 yard S. B. Re-entry which consists of ten shots at 200 yards using any sights, he took both second and third places with a 99 and 98 respectively, being outpointed only by the number of shots in the X area. In 1936 he entered the 100 yard Small Bore

## MOVING PICTURES FOR CLASSROOMS REPLACE LECTURES BY PROFESSORS

Special from Columbia, Mo., in Associated Collegiate Press:

Moving pictures in classrooms instead of lectures by professors and instructors have proved so popular at Stevens College that their use will be extended next year, officials have announced.

The use of moving pictures or "visual education" has been tried at Stevens for two years. Next fall college authorities plan to offer a course in "Motion Picture Appreciation," designed to teach students to get the maximum benefit from films.

Use of films in classrooms also will be extended, the movies supplementing the activities of professors and instructors.

Two years ago 411 films were shown in connection with college courses. They proved so effective that last year 1,227 films were booked.

Most of the films used so far have dealt with scientific subjects. However, authorities plan to extend their use to such subjects as the humanities and social sciences.

In the "Motion Picture Appreciation" class it is planned to teach students to make their own films and to emphasize the development of moving picture technique.

To emphasize the value of moving pictures in college instruction, the visual education director conducted an experiment with two classes. One class was given 11 minutes of reading on a certain subject daily; the other class was given 11 minutes of movie instruction.

After eight weeks the two groups were examined and the class receiving moving picture instruction made the higher grade.

Telescope Re-entry and carried away the first five places against a large field. In the Short Range Individual, 20 shots at 50 yards, 20 shots at 100 yards using telescopic sights, of the 1937 meet he took second honors with a 397, losing first place by only two points. In shooting for the Scotch Cup match which consists of the smallest 5-shot group at 100 yards he turned in a 1 1/4 inch grouping, for sixth place out of a field of 31.

The prizes for all these latter matches was cash.

## Eyes Over The Campus

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AT OHIO STATE U. A TREE IS PLANTED ON THE CAMPUS IN HONOR OF EACH STUDENT NAMED ON AN ALL-AMERICAN FOOTBALL TEAM.

FOOTBALL HAS BEEN DISCARDED FOR RODEO SPORTS AT THE CHEYENNE SCHOOL AT COLORADO SPRINGS. BUCKING HORSES AND WILD STEERS ARE CONSIDERED LESS DANGEROUS BY THE SCHOOL OFFICIALS!



# SPORTS PAGE

## Maryville Outplayed in Snowstorm 7-0

A crowd of approximately 500 shivered through 60 minutes of playing time to see the Miners outfight Maryville and win on a third quarter drive. The crowd was very enthusiastic considering that the weather was below the freezing mark, and much credit is due them for their fine support of the team throughout the game.

The game was hard-fought from the start to the finish. It opened with Maryville kicking off to the Miners, the ball going out of bounds on the Miner 33-yard line. On two reverses the Miners gained no ground. O. Taylor kicked to the Maryville 45-yard line. The Miner line held on the next three plays, Maryville gaining but two yards. Bernau kicked on 4th down, but the play was called back when the Miners were offside. His next kick was good, the ball going out of bounds on the Miner 40 yard line. Miners' ball. On first two plays O. Taylor was spilled for a total loss of 17 yards. He then kicked to the Maryville 32 yard line. Two line plays and an incomplete pass failed to advance the ball for Maryville. Bernau kicked again, the ball being taken by Koziatek on his 6 yard line, from where he returned to the 15 yard line before being stopped. Three plays with O. Taylor carrying the ball netted 6 yards. Koziatek then kicked out of bounds on the Miner 42 yard line. Two line plays and an attempted pass netted 4 yards for Maryville. Bernau kicked out of bounds on the Miner 3 yard line. Miners' ball on their own 3 yard line. Koziatek knifed through center on a good play for 9 yards. Hart was stopped on a center plunge, but O. Taylor raced around right end to the Miner 19 yard line for the Miners' first down from scrimmage. The Maryville line held on the next two plays, and Taylor kicked to the Maryville 45 yard line where ball was downed. Bernau picked up 7 yards on two line plays, but was forced to kick on the 4th down. The ball was taken by the Miners on their own 25 yard line as the quarter ended.

Miners' ball to start the 2nd quarter. After Koziatek picked up

### INTRAMURALS

Tuesday afternoon at 4:15 Sigma Nu and Sigma Pi will replay their touch football game to determine who will play the Freshmen in the finals.

In Ping Pong, Underwood, a junior beat Jennings, Sigma Nu and Roux, Sigma Nu beat Horsey; Theta Kappa Phi. These matches were the semi-finals.

In the Quarter finals in handball Dutenhafer, Theta Kappa Phi, beat Caplovitz, Sophomore. Tanel, Theta Kappa Phi, beat Bow-

5 yards on the first play, the Maryville line held, and J. Taylor kicked on 4th down. Bernau took the ball on his own 25 yard line, returning it to the 36. Bernau plunged through tackle for 6 yards and Pelc added 1 more. On a double lateral, Bernau to Reital to Walker, Maryville marched to their 48 yard line for a first down. Bernau, on three plunges, drove to the Miner 42 yard line for another first down. Pelc added a yard through right guard, but on an attempted double lateral, Bernau was tackled for a yard loss. Bernau's attempted pass to Reital was caught by Koziatek on the Miner 35 yard line. Maryville then took time-out. Miners' ball on their own 35 yard line. Taylor punted on the first play, the ball going to the Maryville 18 yard line, from where it was returned to the 26. Curtis gained 3 yards around left end. Bernad picked up 3 yards through center, and then went over right tackle to the 36 yard line for a first down. Bernau carried the ball again for 5 yards through left tackle. Maryville took time-out again. Pelc picked up a yard through center, and Bernau 3 through right guard. Pelc then raced around right end for 13 yards before being brought down by O. Taylor. Both teams were offside on the next play. Curtis, Reital and Bernau together picked up 10 yards on line plunges for another first down, putting the ball

man, Lambda Chi; Alger, Kappa Sigma, beat Anderson, Sophomore.

In the semifinal rounds of doubles in handball Kappa Alpha beat the Sophomores. Theta Kappa Phi beat Sigma Nu.

Points scored in the cross country race are as follows. Sophomores 83; Freshmen, 50; Juniors 41; Kappa Sigma 34; Lambda Chi, 32; Triangle 22; Sigma Nu 20; Pi Kappa Alpha, 19; Seniors, 18; Alpha Lambda Tau, 15; Theta Kappa Phi, 10; Sigma Pi, 5.

### RIFLE TEAM

The M. S. M. Rifle Team defeated both Washington U. and Armour Tech in a triangle meet last Saturday. This is the first two matches that they have shot this year and the prospects are they will win quite a few more before the season is out.

Miners	
Crecelius	376
McCarty	364
Peters	360
Ruemmler	352
Evans	350
Miller	350
Schell	348
Greutzemacher	346
Fields	340
Fick	332
Total	3513
Washington U.	
Wiegand	378
Lenney	367
Summers	361
Rupprecht	355
Edsall	350
Bothman	342
Strutman	340
Ziervagel	340
Kraus	334
Ramsey	334
Total	3501
Armour Tech	
Mashinter	379
Lobes	355
Dempsey	354
McDaniel	344
Ratto	351
Dryer	346
Morris	335
Galandok	327
Miller	316
Fitch	302
Total	3419

Mashinter	379
Lobes	355
Dempsey	354
McDaniel	344
Ratto	351
Dryer	346
Morris	335
Galandok	327
Miller	316
Fitch	302

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### Miners Play Cape Thanksgiving Day

#### Last Game in Season Decides Cape's Title to Championship

The Miners will finish their 1937 football season with a Thanksgiving day battle with the Cape Girardeau Indians. The Indians have gone through the present season undefeated and until their game with Warrensburg, they were the only college team in the nation that was unscored on. Cape has never won the M. I. A. A. football crown in football but they are pointing for the top this year. In winning this year, the Indians have defeated Springfield 33-0, Kirksville 12-0, Maryville, 14-0, and Warrensburg 20-6 in the conference while in other play they have defeated Hendrix College of Conway, Arkansas 12-0, Evansville, Indiana 34-0, and Carbondale Teachers 14 and 13-0.

The Indians have several men whose individual play this season have made them strong contenders for the M. I. A. A. all-star team. George Godwin, Indian quarterback is leading the conference scorers in league games and all-games. Wayne Godard, left-tackle has been on the M. I. A. A. all-star team for the past two years and is being primed for Missouri's delegate for the Little All-American. Lester Sherfield, right tackle, was on last year's all-star team and Walt Metje, right halfback, was on

the 1936 all-star eleven. W. Metje has been out of the game because of a fractured rib but he is expected to be in the lineup against the Miners. Grover Crites, end, has seen little service this year because of a leg injury but he made the all-star eleven in '35 and '36. The starting backfield of the Indians will average 156 pounds per man while their line will average 177 pounds.

The Miners will attempt to make it three victories in a row. Fresh from a 7-0 win over Maryville and assured of third place in the M. I. A. A. conference the Miners will be a fighting outfit hard to stop. Which will it be—Indians or the Miners?

### BOARD FOR STUDENTS

There is room at our tables for just a few more students. Two meals per day \$18.00 per month.

MRS. FLORA C. GRANT

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Continued on page four.

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## 1937 FOOTBALL SCHEDULE

Miners 27—Carbondale 0

Miners 6—St. Louis U 32

Miners 6—Warrensburg 20

Miners 6—Kirksville 6

Miners 7—Oklahoma City University 19

Miners 35—Springfield 0

Miners 7—Maryville 0

Nov. 25—Cape Girardeau at Cape Girardeau

MINERS BEAT MARYVILLE 7-0  
Miners Gain 3rd Place Berth  
In M. I. A. A. Race

Continued from page three

on the Miner 26 yard line. The Miner line held on the next three plays, and when Bernau faded back to pass on 4th down, he was tackled by Murphy for a 16 yard loss, giving the Miners the ball on their own 39 yard line. On the first play Koziatsek was tackled behind the line for a ten yard loss. The Miners then took to the air in a last minute attempt to score. The half ended as Curtis intercepted O. Taylor's third attempted pass.

The second half opened with Maryville kicking off to the Miners. Littner took the ball on the 25 yard line and carried it back to the 40. The Maryville line held, and O. Taylor kicked, the ball going out of bounds on Maryville's 23 yard line. Maryville picked up 6 yards before Bernau kicked again. Koziatsek took the ball on the 45 yard line, carrying it back to the 49. The Miners were penalized 5 yards on the next play when they were offside. O. Taylor's pass was incomplete, but a run around right end netted 1 yard. Littner, on a reverse from O. Taylor, raced to the Maryville 37 yard line for a first down. Hart picked

up 6 yards through center, but was stopped on a second attempt. On the third down, the Miners were penalized 15 yards for holding. A pass, O. Taylor to Wilson, netted 6 yards. Koziatsek's kick was taken by Reital on the Maryville 8 yard line and carried back to the 13. On an attempted end run, Curtis was tackled by Ladd for a 7 yard loss. Bernau kicked on 3rd down to the Maryville 38 yard line. Miners' ball on the Maryville 38 yard line. On the first play Ladd raced around left end for 16 yards. Hart's plunge through center failed to click, but on the next play O. Taylor threw a long pass which Wilson pulled down on the 3 yard line and carried across the goal line on a hard plunge. On the kick for extra point, the line held for a brief second, and J. Taylor sent the ball spinning over the goal posts for the point. The score: MINERS 7, MARYVILLE 0.

Maryville elected to kick, and J. Taylor took the ball on the Miner 19 yard line, racing to the 32 before being downed. The Miners were pushed back on the next two plays, J. Taylor finally kicking, the ball going to the Maryville 15 yard line, from where it was carried to the 21. Miners then took time out. Maryville's ball on their own 21 yard line. On the second play Pelc found an opening through center and reached the 35 yard line for a first down. Bernau picked up 9 yards on three successive line plays. He then kicked to the Miners 22 yard line. O. Taylor kicked on 1st down, the ball going to the Maryville 40 yard line. Kurtwright picked up 3 yards through center, and Bernau 1 yard through right guard before the quarter ended.

Maryville's ball on the Miners 49 yard line. Bernau picked up 3 more yards over right guard before kicking out of bounds on the Miner 25 yard line. The Miners were unable to advance on two plays. O. Taylor kicked on third down, the receiver being downed on the Maryville 38. Bernau picked up 9 yards on two line plays, but lost the ball on downs when he was stopped cold with but a yard to go. Miners' ball on the Mary-

ville 43 yard line. On the 3rd play, Ladd got away for a 21 yard run around left end, putting the ball on the Maryville 20 yard line. O. Taylor picked up 4 yards through right tackle. Murphy was injured on the play. The Maryville line held on the next plays, the Miners losing the ball on downs on the 14 yard line. Bernau kicked out of bounds on the Miner 31 yard line on the first play. O. Taylor kicked on third down for the Miners, Maryville receiving on their own 22 yard line and carrying the ball back to the 29. Three Maryville plays netted but 3 yards before Bernau kicked again. Koziatsek took the ball on the Miners 30 yard line, carrying it back to the 38. The best the Miners could do on three plays was to gain 2 yards. O. Taylor punted again, the ball going out of bounds on the Maryville 29 yard line. Maryville's ball on their own 29 yard line. Maryville took to the air in a last attempt to reach the Miners goal line. A line plunge and a forward pass and lateral combination which netted two first downs for Maryville, coupled with a 15 yard penalty against the Miners for unnecessary roughness, put the ball on the Miner 33 yard line. At this point Bernau attempted another pass which was intercepted by Curtis. Curtis lateraled to Ladd who was brought down on the Miners 48 yard line. Ladd was stopped on a center plunge, but O. Taylor gained 5 yards on a similar drive. Maryville was penalized for too many time outs, giving the Miners a first down on Maryville's 44 yard line. On the next play Ladd made a long run down left end, going all the way to the Maryville 12 yard line before he was stopped. O. Taylor picked up 3 yards over right tackle, but Ladd was thrown for a yard loss, as the final gun ended another Miners scoring threat.

Score by quarters:

	1	2	3	4	Total
Miners	0	0	7	0	7
Maryville	0	0	0	0	0

Lineup and summary:

Miners	Maryville
Wilson	L.E. Walker
Prough	L.T. Irvine
Kirwan	L.G. M. Riggs
Axthelm	C. Richards
Curtis	R.G. Zembles
Klug	R.T. Molitor
Littner	R.E. Zuchowski
Koziatsek	Q.B. Bernau
O. Taylor	L.H. Brewer
Ladd	R.H. McLaughlin
Hart	F.B. Pelc

Substitutions: Miners—Spafford, Pomeroy, Stallman, Rogers, Kiesler, Jim Taylor, Loveridge, Murphy, Baumstark, Stevens, Volkmar; Maryville—Howell, Baker, Curtis, R. Royers.

Scoring: Wilson (Touchdown).

J. Taylor (Point after touchdown).

—M.S.M.

TAU BETA INITIATION

AND BANQUET

Continued from page one

as City, Missouri. He attended M. S. M. several years ago and was a member of Lambda Chi Alpha fraternity.

Mr. Lyons talked on "Making Friends". He stressed the importance of being able to mix with people and make friends. He said that your friends, provided you have chosen the right ones, can help you in many ways. Mr. Lyons illustrated his talk with stories of his experiences in school, in the army, and in his work. He likes photography, polo, and fox hunting and those present enjoyed his references to his hobbies. He showed several pictures from the collection he has gathered since he took up photography. Mr. Lyons showed that he was not only an able speaker but a jolly good fellow as well by inviting all those present to be his guests at a party after the banquet. Needless to say, the party was a big success.

PROFESSOR NOBLE  
ADDRESSES A. S. M. E.

Continued from page one.

use cheap labor. Though their workmen must be skilled, they are willing to pay well for them. In the past men have learned oil by experience, but now a man trained prior to his employment is desired by all departments of the industry. The drilling operations are growing rapidly in efficiency. The time formerly spent in setting up the equipment before starting to drill is now sufficient to set up the equipment, drill the well, and move on to another well. At the present time almost all of the oil is transported by pipe lines. The cost to transport oil by pipes is about one half that by rail.

The address was well received and further stimulated the growing interest of the mechanicals in the Petroleum Industry.

—M.S.M.—  
HUGH R. BERRY ADDRESSES  
CHEMICAL ENGINEERS

Continued from page one.

ating example after interesting example of such problems confronting the Chemical Engineer of today, Mr. Berry showed how the popular trend of thought was to jump at conclusions, it being the duty of the engineer to think clearly and scientifically and thus arrive at the true solution of these problems.

Concurrently with these illustrations, Mr. Berry brought out the phenomenal advance of engineering in industry over the last twenty-five years, showing how a cer-

tain unit, for example, which was very modern and efficient five years ago by producing one thousand barrels of gasoline a day is now superseded by a unit that cracks as much as three to four thousand barrels a day. This replacement is not made necessary by the failure of the older unit to work efficiently, but by the tremendous advantages of the new one financially.

Mr. Berry's address was most interesting to all in attendance.

—M.S.M.—

Mother-in-law — Why don't you and Nellie stop scrapping? A man and his wife should be as one.

Hankins—But we really are 10.

Mother-in-law—How's that?

Hankins—Well, in Nellie's mind she's the one and I'm the naught.

## PROGRAM

## ROLLAMO THEATRE

Sat. and Sun. Matinees 1:30 & 3:30  
Matinee Every Tuesday 2:30Selected Short Subjects on  
Every Program

## NOVEMBER, Month of Hits

Fri. and Saturday, Nov. 26-27  
Double Feature Program

No. 1

## "SATURDAY'S HEROES"

with Van Hefline and Martha Hunt  
No. 2 Madeline Carroll and Francis Lederer in

## "IT'S ALL YOURS"

Also "Eyes of Texas" and Cartoon  
Sat. Only, Serial "Wild West Days"Sat. Nov. 27—Midnight Show  
SUN. Matinee and Night, Nov. 28

Rosalind Russell

Rosalind Russell, who has become one of the most popular of the younger actresses Hollywood has lured from Broadway, makes her newest screen appearance at the Rollamo Theatre where she is appearing opposite Robert Montgomery in "Live, Love and Learn," a romance of young love in Greenwich Village. Midnight show Saturday night, matinee and night Sunday, Nov. 27 and 28.

Sunday Night 7:00 and 9:00  
Admission 10c and 35cMon. Nov. 29, One Night Only  
The Missouri School of Mines  
presents"MRS. MARTIN JOHNSON"  
IN PERSONTues. Nov. 30, Matinee & Night  
Marlene Dietrich and Robert Donat in

"KNIGHT WITHOUT ARMOR"

Wed. and Thurs., Dec. 1 and 2  
Tyrone Power and Loret Young in  
their perfect picture

"SECOND HONEYMOON"

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1938 PECEMAKER  
PORTABLE  
Speed Model TYPEWRITERS  
A LOGICAL  
CHRISTMAS  
GIFT  
\$1.00 A WEEK COMPLETE

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OVER  
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Super Shell Gasoline

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GOODRICH TIRES AND ACCESSORIES  
JAS. M. HATCHETT, Manager

## Followill Drug Co.

Watch For Opening Date of  
**Walgreen Agency**





## THROUGH THE TRANSIT

by homer bru...



To those who are 'air minded' the Glider Club could mean a source of excellent training, and mighty reasonable along with it. If you are interested just yell twice around one or two mechanicals and all the needed info will be supplied. (Your welcome) . . . Woe is old attached homer—the dance was unvisited last Saturday nite. It was something about the organ . . . memo's and all that, you know. Surely the other two not infamous dishers of the dirt can handle such an affair most thoroughly . . . Stunt Nite is in the offing (that is what it is called), and are certain people fit to be tied over the change in the rules . . . it is a bit late to make such a rule. Calamity rides the stage . . . wouldn't it be a shame if two popular groups put on the same stunt (meaning a play of course). Drama would be the determining factor unless

thought speeped up . . . Dirt will be at a premium in the old home-stand this week-end. I'll be about and through the rumor route I hope to keep up with a certain party to be 'Tossed' in St. Louis over the holidays . . . no limit as to finish except the 8 o'clock Monday morning deadline set for us by the office that is (???) . . .

A new feature is being added to this spacer by demand from sources you will have to guess . . . Any letters pertaining to any thing that might be printed best under the caption above will be welcomed. Drop the same in the MINER box in the Business Office, and address same to the Transit. Thanking you again,

I remain

Yours sincerely  
homer bru.

The letter talk always has its effect.

"If the girls on the campus dress with just a little less of that air of abandon, they really would look much more attractive." Men students at the University of Rochester, N. Y., are a trifle annoyed because coeds on their campus refuse to dress up for them.

Girls at schools exclusively for women have, for a long time, indulged their fancy for "flats", faded bandanas in lieu of hats, and drooping ankle socks.

On coeducational campuses, however, feminine devotees of "comfort before chic" have been in the minority. Not so at Rochester.

"Why if we dressed like that we'd be outlawed as a bunch of sissies, trying to play he-men," irate males protested.

### HAZELETT PROCESS PRODUCES STRIP FROM MOLTEN METAL

One of the most important and interesting developments in recent years in the metallurgical industry is the Hazlett process for the production of strip directly from molten metal. After considerable work most of the difficulties have been overcome and the Crown Cork & Seal Company of Baltimore has placed the process on a production basis in making aluminum.

In the Hazlett process, aluminum (or any other metal) is melted in an electric furnace to make an extremely clean metal. The metal is poured into a launder and flows through nozzles made of special refractory material into the vee formed between two horizontal rolls. A small reservoir of metal is maintained at this point.

As the metal passes through he nip of the rolls it solidifies and emerges in the form of a sheet which is coiled under tension on a reel. It is now in condition to be processed further by regular rolling methods.

As any metallurgist can readily see there are a number of serious problems to overcome. In regular rolling practice considerable metal is cropped off the billets to eliminate various defects. The Hazlett process, of course, does not have such procedure available and must start with exceptionally clean metal to avoid poor quality sheet. In pouring a heat very careful control on the rate of metal flow must be maintained. Special refractories

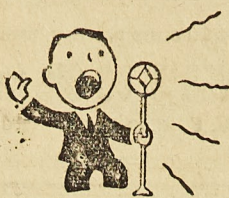
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For the Best Fruits and Vegetables  
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## STATION

## J-I-G

### Chatter About This'n That

Suppose you all read the little article about being careful when you go home this week-end, that was written the Ed. Pretty good advice, might do a lot of us some good to heed it. A little more of that and I'll be in training to lead a Sunday School class . . . don't answer that remark . . .

A. L. T. made fraternity dances unanimous with their dance last Friday eve. With the weather just a little chilly on the outside, guests and men of the house danced in cozy quarters. If ever fun is to be had, or has been had at any house, I'm sure it was had there. Laughing and joking so loudly that at times they almost drowned out the music of the band, Pinky, Bauman, Wonn, and the rest of a swell bunch of guys did the thing up well. For those of you who may be interested, the music was done in Gilmore style. For comments, refer to other sections.

"To church in the Gym" seems to be the predominating saying concerning the dance Saturday. By unique arrangement, Velazco's organ finally mixed with the band. Presenting a smooth style different from any seen or heard in the gym this season, Emil varied novelties, vocals by a charming vocalist, and the style, to provide a pleasant evenings entertainment. The "Specialist", and his antics were especially good—I thought . . .

Watch for the "MYSTERY DANCE" . . . now there you've got me, and so has the guy that thought it up. I think they've got something there, at least I hope so. Come on fellows, (or can it be the co-ed about the campus?) tell us everything, or I'll get the assignment to find out, and I don't feel up to games now.

Since next week brings a holi-

were developed for nozzles to regulate the flow. The nozzles must operate submerged in the reservoir between the rolls to prevent splashing.

The function of the rolls is twofold. They serve to remove sufficient heat from the metal to solidify it and to roll the solidified metal into a strip. It is necessary to use high rolling pressures to remove the structure of metal caused by the chilling effects of the roll.

Sheet with a gauge of 0.120 inch is about the maximum possible at the present time which can pass metallurgical inspection or be cold rolled immediately. After passing the nip the rolls must be externally cooled with water sprays, the water must then be removed by compressed air and the surface of the roll finally wiped clean. Serious difficulty arises due to heat checking of the rolls, and rolls with sufficient resistance are hard to find. Rolls on aluminum will hold up to the extent of about 65 tons.

There are some limitations to the process. Aluminum cannot be poured at a rate greater than 44 pounds per minute. Steel pours at 281 pounds per minute. Heats are limited to three tons, because the molten metal cannot, of course, be held too long in the furnace. Aluminum can be rolled into strip by this process for about two cents per pound, which is considerably better than the cost of rolling by conventional methods. This, however, would be a high cost for steel, which is therefore not likely to compete in this field.



Look well groomed at all times and protect your "Crowning Glory" with a Modern Shampoo. WE USE SOFT WATER

## MODERN BARBERS

children on the Sabbath or feasting day."

"No one shall eat mince pies, dance, play cards, play any instrument of music except the drum, trumpet or jewsharp." — Frances Somers, Minneapolis, Minn., in Your Friendly Neighbor.

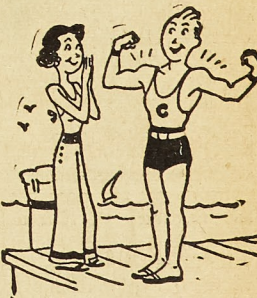
M.S.M.

Tottering on his crutches, a retired sailor with a broken leg, a sprained ankle, a sprained arm and a broken nose, was visiting a museum with his small son. After eyeing the mummy for a few minutes, the boy piped up, "Hey, Pop, did that man talk back to Mom, too?"

Skinny arms and skinny legs  
Were the bane of Tony Meggs.



Laughing girls all passed him by,  
For Tony was dull and not so spry



'Til he found his diet wrong;  
Now our hero's big and strong

## TUCKERS DAIRY

Call 347 For Delivery

### SUPPOSE THESE LAWS WERE WITH US TODAY?

These are a few of the famous "Blue Laws" of Connecticut in force during colonial days. They were so named because they were printed on blue paper:

"No one shall cross a river on the Sabbath but authorized clergymen."

"No one shall travel, cook victuals, make beds, sweep houses, cut hair or shave on the Sabbath day."

"No one shall kiss his or her

### JIM PIRTLE

Watchmaker and Jeweler  
Fine Repair Work a Specialty  
41 Years Experience  
31 Years in Rolla

### VISIT THE

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## SCOTT'S--The MINER'S CO-OP and BOOK EXCHANGE

Fifty years of service to M. S. M. men, and "still in the ring" at 8th & Pine

### MRS. MARTIN JOHNSON TO LECTURE MONDAY

Continued from page one

Leighly, on March 14, 1893, Mrs. Johnson met Mr. Johnson in 1910, when she was seventeen years of age. Mr. Johnson was nine years her senior. At that time, he was operating a motion picture theatre in Independence, Kansas, named the Snark, after the vessel in which Jack London sailed the South Seas with Mr. Johnson the youngest member of the crew. It was while Martin Johnson was on this cruise that he met some early motion picture photographers and got the idea of perpetuating the lives of vanishing natives and animals in the jungles which are fast vanishing before the inroads of civilization, by taking motion pictures of them.

The Johnson's first joint expedition was to the Malanesian Islands where cannibalism then existed. Here, they very narrowly escaped with their lives. Borneo called them next and it was to this island that they returned, in 1936, on their last joint expedition.

Between their first and last trips, they six times encircled the globe, spending their happiest years in Africa, where they established a home on the outskirts of Nairobi, British East Africa (now called Kenya Colony), and explored the haunts of the wild beasts south, west and north of these headquarters, at one time exploring the entire continent, starting at Cape Town, by airplane, and at another making the first sound pictures ever attempted of the gorillas of the Belgian Congo and the pygmies of the Ituri Forest.

Mr. Johnson wrote a number of books; and Mrs. Johnson has children's books, as well as many magazine articles, to her credit.

"Jungles Calling" is the title of a film which has been telescoped out of the millions of feet of film taken by the late Martin Johnson during his lifetime, Osa Johnson standing at his elbow holding the gun; or vice versa. It is so cut and timed that thrill follows thrill, mounting to a series of climaxes it would be impossible to duplicate today, many of the native tribes

and wild animals shown having succumbed to the inroads of civilization. There is also a great deal of footage never before shown anywhere, having been locked in the vaults of the Eastman Kodak Company or the American Museum of Natural History all these years.

Mr. Johnson once described Osa as follows: "For bravery and steadiness and endurance, Osa is the equal of any man I ever saw. She is a woman through and through. There is nothing 'mannish' about her. Yet as a comrade in the wilderness she is better than any man I ever saw. . . . When we were in the Jungle, we made a pact. 'We resolved that whichever of us was at the camera would stick to the camera no matter what happened, until it became apparent that either the picture or the life of one of us must be sacrificed. We kept that pact faithfully, and once at least Osa stood by the camera under conditions that called for the utmost bravery and steadiness of nerve. . . ."

Natives in the Jungle make two demands of white explorers. The

first is that they must be a good shot. The second is that they must never run away. If they can fulfill these requirements, they are deemed worthy to be called bwana, "white master." Both Mr. and Mrs. Johnson merited the title.

### M.S.M. DISTINGUISHED SPEAKER AT A. S. C. E. MEETING

Continued from page one.

speaker offered to answer any questions concerning his work or the U. S. G. S. Several questions were asked him about his reports on the drouth in the dust bowl made in 1935 and 37. He said the dust bowl area, consisting of the Dakotas, part of Kansas, Nebraska, and the Pan-handle area, suffered a severe drouth from 1930-1934, but the most destructive was in 1936. His job consisted of making a technical report to the U.S.G.S. on the drouth and its effects and remedies in the dust bowl. He said the government had loaned an average of \$2000 per farm in this area. The land, having been cultivated intensively for 30-40 years,

had depreciated to a small percentage of its former value, and Mr. Hoyt concluded, that to stop this dust menace, there would have to be a radical change in farming methods in the dust bowl. He concluded his talk by expressing his appreciation for so large a turnout of student members present. Mr. Hoyt was accompanied to the meeting by members of the staff of the local Geological Survey station. His reports on the drouth may be found in the station's library.

M.S.M.  
Teacher: "Robert, give the definition of 'a niche'—as for example, 'a niche' in a church."

Bobby: "Why, it's just the same as an itch anywhere else, only you're not supposed to scratch it there."

M.S.M.  
Mrs. Noorich—My dear, this afternoon I tried one of those lovely newfangled mud packs. By the way, what do you think of mud as a beautifier?

Mrs. Goldreck—Well, it hasn't done much for the turtle.

*"—and  
please notice  
this"*

Notice the pure white cigarette paper . . . notice how every Chesterfield is like every other Chesterfield—the same size and every one round, firm and well-filled.

Notice when you smoke one how Chesterfields are milder and how different they taste. That's due to the careful way Chesterfield tobaccos are aged and blended.

*Mild ripe tobaccos  
and pure cigarette paper  
.. that's why they're Milder  
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*.. they'll give you  
MORE PLEASURE*