



15 Nov 1932

## The Missouri Miner, November 15, 1932

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# THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 19

ROLLA, MISSOURI, TUESDAY NOVEMBER 15, 1932

NUMBER 9

## MINERS WALLOPED BY TULSA, 26-0

### IRA REMSEN GROUP MEETS

#### Film Is Shown

Address on Dynamite Given by H. E. Wideman, St. Louis, Analytical and Consulting Chemist

Wednesday night the Ira Remsen Society met and the main feature of the evening was a lecture on dynamite by Mr. H. E. Wideman of St. Louis. Mr. Wideman is an analytical and consulting chemist and has his own laboratories in St. Louis. He is the head of the employment department for the St. Louis branch of the American Chemical Society and has done quite a bit of research work for the government.

In connection with the very interesting lecture that he delivered, Mr. Wideman also showed several films dealing with the various phases of dynamite manufacture and use. He pointed out the large part that explosives, especially dynamite, have played in the development of civilization from their invention up to the present time.

One of the most important uses to which explosives have been put, and one that has certainly greatly affected the progress of civilization, is that of a weapon in defensive and offensive operations in war. One of the first applications along these lines began in the days of the feudal barons, when dynamite and other explosives were the only weapons that could be used effectively to destroy the strongholds that they constructed. In many ways explosives have revolutionized warfare. At present they are used to a great extent by the engineer corps of the army and every company is issued a certain amount.

Mr. Wideman presented a film showing the manufacture of dynamite and explained it as he went along. Glycerine is mixed with very concentrated nitric and sulphuric acid at a set temperature.

After being nitrated, the glycerine is run into water and washed well to remove any trace of sulphuric or excess nitric acids. This nitro-glycerine is too dangerous and awkward to use as it is, so it is mixed with enough kieselguhr to make thirty per cent nitro-glycerine. A distinct improvement is made by the substitution for kieselguhr since, it is inert consisting of a mixture of a wood, flour and a nitrate. The dynamites manufactured in Ameri-

(See IRA REMSEN Page 7)

### Photographer for Rollamo to Return

Bill Kay, the editor of the Rollamo, announced last week that if fifty men wished to have pictures taken, the photographer will return soon. Those desiring to get pictures and take advantage of the extremely low rate offered this year should get in touch with Kay or Taylor at once so that arrangements may be made. It is essential that a great many have pictures inserted to make the book look well and with the rates in effect this year there is no excuse for anyone failing to do so. The cost is fifty cents for a picture and one cut in the book.

MSM

### FACULTY TRIO HERE NOV. 17

#### Selections Named

Stephens College Group Will Present Program on General Lecture Series Thursday; To Begin at 8 O'clock

Next Thursday evening, Nov. 17, a trio from the faculty of the Stephens College at Columbia will give a recital in Parker Hall. The members of the trio, Mr. B. D. Guantlett, Miss Valborg Leland, and Miss Elizabeth Fretz, are members of the faculty of the music department of the school.

Mr. Guantlett, who plays the piano, is head of the department. He is a graduate of the Conservatoire National of Paris. He has been director of the conservatory at Ste-

(See STEPHENS Page 7)

### Officers Club of M. S. M. Organized

At a meeting last week of the men taking Senior Military, the Officers Club for the ensuing year was efficiently organized through the combined efforts of Max McCrory and Lieut. Hardin. This club has been functioning for several years and its members are taken each year from those entered in the course in advanced military. The officers elected for the year are Max McCrory, president; Burkhalter, vice-president; John McKinley, secretary; Charlie Lambur, treasurer. The club plans to be very active during the year and meetings are to be held on the first and third Tuesday of each month.

### Smooth Working Oklahoma Team Smothers Offensive

#### M. S. M. on Defensive Throughout Game

Silver and Gold Chalks Up Only Four First Downs to Tulsa's Sixteen; Aerial Attack of Tulsa Functions Perfectly, Netting 135 Yards in Six of Fourteen Attempts

### M. S. M. Football Schedule for 1932

Pittsburg Teachers—13; Miners—0.  
Arkansas University—19; Miners—20.  
Oct. 7 or 8, open.  
Drury, 0; Miners, 40.  
Kirkville Teachers—12; Miners—7.  
Springfield Teachers—7; Miners—34.  
Maryville, 0; Miners, 14.  
Tulsa U., 26; Miners, 0.  
Nov. 19, St. Viator College, Rolla.

### R.O.T.C. Observes Armistice Day Here

Armistice Day was well observed by the R. O. T. C. unit of the Missouri School of Mines and Metallurgy.

on the M. S. M. campus in front of Parker Hall in a battalion front and proceeded from there south on Main to Eleventh to State Street and continued south on State Street to Sixth, east on Sixth to Pine Street, thence to the campus in front of Parker Hall.

On the campus the unit assembled in a battalion front and received their general orders from Lieut. Itchner. Rev. Jackson led the group in prayer.

Max McCrory, cadet major, after reviewing the battalion dismissed it at Jackling Field.

MSM

### Student Stunt Night Will Be Held Dec. 1

The annual student stunt night will be the General Lectures Program for Thursday, Dec. 1.

Last year the stunt night program was considered one of the best programs of the series by all who saw

(See STUNT NIGHT Page 7)

The Miners met a smooth working football machine in by far the toughest game of the season at Tulsa Friday afternoon. The heavy Tulsa line withstood Miner attacks and the wide playing ends smothered nearly all the Miner attempts at the wing positions. Behind splendid interference the shifty, hard-running Tulsa backs piled up a good total of yards from scrimmage. The passing and running offensive of the Golden Hurricane kept the Miners on the defensive throughout most of the game.

The Miners won the toss and elected to defend the south goal. Kirchoff kicked off to Duggar who returned the ball twenty-two yards to his own thirty-seven yard line. On the first play Green broke away for a good gain but fumbled on the fifty yard line where the ball was recovered by Captain McDonald. The Miners failed to make first down and Kirchoff kicked out of bounds on Tulsa's forty yard line.

Tulsa failed to gain through the line and after two incomplete passes and a five yard penalty, Green kicked out of bounds on the Miner's thirty-eight yard line. McDonald made four through the line. Towse's pass to Kirchoff was incomplete and Kirchoff kicked out of bounds on the fifty yard line. After failing at the center of the line, Green threw a long pass to Duggar, but the pass was incomplete. The second attempt to pass, from Green to Berry, gave Tulsa a first down on the Miners twenty-five yard line. Lentz made nine through the line. Green went wide around his left end and was forced out of bounds by I. Spotti, making it first and goal to go for Tulsa on the Miner's twelve yard line. Berry and Green failed to gain through the line, where he was stopped by Gibson. On the next play Berry cut back through tackle and scored the first touchdown for Tulsa. Berry kicked the extra point and the score was: Tulsa, 7; Miners, 0.

Tulsa kicked off to Towse who took the ball on his own goal line and returned to the twenty-three yard line. On the next play Towse fumbled and recovered for a three

(See FOOTBALL Page 6)



## Rollamo Will Help Students Celebrate

L. L. Lewis of the Rollamo Theatre announced in conference with members of the Senior Council that he would present a free show for the Miners after every football game that was won by them. These shows are to be given at 9:30 on the night after the game. In consideration of this Mr. Lewis has requested that the students do not gang up in front of the theatre but that they come in quietly at 9:30. Part of the second show will be shown a third time so that no one will miss any of it.

There will also be one free show given in the spring preferably when the freshmen burn their suspenders. Mr. Lewis stated that the students might choose the picture for this occasion and that he would get it for them. The Senior Council requests that there be no more "rushing" of the theatre as Mr. Lewis' proposition is more than fair and the student body should show their appreciation by meeting the conditions outlined above.

—MSM—

## New Course Being Offered Engineers

For the first time, in so far as is known, a graduate course in engineering distribution, devoted to a study of the distribution of capital products, is being offered in a university.

Since 1927 the University of Pittsburgh and the Westinghouse Electric & Manufacturing Company have offered co-operative engineering education through the University Graduate School. This program has been given by engineers of Westinghouse Research and Design divisions and the University faculty members, and included courses in electrical and mechanical engineering. This year, in addition, a course in engineering distribution is to be given, under the direction of Bernard Lester, assistant sales manager, Industrial Department, Westinghouse Electric. Although the course has just begun the enrollment is already completed. In fact 50 per cent more than could be accommodated applied for admission.

The new course is not a business course on commodity marketing but rather a course on the distribution of capital products. It will take up problems in the sale and distribution of engineering equipment and machinery required by industry; a study of the industrial market; methods employed in economic distribution, direct and through sales features of engineering products; organization and supervision of sales force, sales methods, specifications, proposals, sales presentation and use of sales aids; problems involved in ordering, packing, transporting, installing, servicing, supplying repair parts and meeting foreign needs.

The course will include two hours once weekly and will be conducted by the presentation of a brief lecture by leading authorities followed by a study of assigned subjects, case problems and collateral reading.

The University of Pittsburgh through Dean Holbrook of the Grad-

uate School and Professor Hallock, head of the Department of Industrial Engineering, are responsible for this initial step in modern education.

—MSM—

## Library Book, Held 38 Years, Returned

CAMBRIDGE, Mass. — (IP) — An elderly Scotchman who borrowed a book from the Cambridge Public Library in 1894 — 38 years ago — took advantage of fineless week at the library to return the book.

John McIntosh of Wilmington saved himself a total fine of \$290 by returning the book on that week. The book, "The Story of Scotland," cost the library 65 cents in 1890.

McIntosh returned the book by mail, and signed his name only as "an old gentleman in Wilmington." The library records revealed his real name.

—MSM—

## Pre-registration to Begin November 28

Pre-registration for next spring for all students except regular freshmen will start on Nov. 28, and all schedules must be in the registrar's office by noon on Saturday, Dec. 17.

Failure of any student except regular freshmen to pre-register will subject the student to a late registration fee of \$5.00.

Blank schedules will be sent to the faculty advisers on Nov. 26, and any student who wishes to change his curriculum must notify the office before that day.

Trial schedule blanks and copies of the schedule of classes may be obtained at the office. Students are advised to try to make out their own schedules before reporting to their adviser in order to save time both for themselves and the adviser.

Advisers are as follows: Metal Miners, Prof. Steinmesch; Petroleum Miners, Dr. Stephenson; Metallurgists: Seniors—Prof. Clayton, Juniors—Prof. Hanley, Sophomores—Prof. Walsh; Civil Engineers, Prof. Butler; Mechanical Engineers, Prof. Jackson; Electrical Engineers, Prof. Frame; Chemists and Chemical Engineers, Dr. Schrenk; Ceramists, Prof. Dodd; Geologists, Dr. Dake.

Students in the Science curriculum are to report to their major professor.

Pre-registration will be conducted in the same manner as last semester and the schedules turned in first will

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get first choice of sections. The pre-registration schedule will be the student's official schedule for next spring unless he fails or drops some subject after pre-registration, in which case he may have to make a new schedule on registration day in January.—H. H. Armsby, registrar.

—MSM—

## Junior Class Names St. Pat Material

The Junior Class met last week for the purpose of nominating several juniors for the position of St. Pat. It has always been the custom heretofore to choose St. Pat from the Junior Class and the St. Pats Board has definitely decided that such a policy will always be followed. The juniors nominated for the honor were: Dick Taylor, Ray Oswald, George Hale, George Fletcher, Hendrickson, P. I. Murray, and Henry Earle.

These nominations were submitted to Bennie Gross, the president of the St. Pats Board, who was present at the meeting. They are not final but no more nominations may be submitted by the class. The St. Pats Board has the privilege of selecting some man other than those nominated if they see fit to do so.

Other business discussed included the collecting of dues from each member and the details in connection with the pages in the Rollamo. Each junior who has his picture taken will have it on the class pages in the book as individual pictures were unanimously decided upon.

—MSM—

Dumb Dora—I was awfully lucky at the party last night.

Mamma—In what way, dear?

Dumb Dora—We played a game in which the men either had to kiss a girl or forfeit a box of chocolates. I got 10 boxes.

**D. J. Walter, M. D.**  
EYE, EAR, NOSE, and THROAT  
—EYE GLASSES FITTED—



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## at the movies

### ROAR OF THE DRAGON

This gripping drama is the story of an American captain of a Manchurian river steamer fighting to save a small group of white people from Manchurian bandits. The tars besiege a hotel which houses the fugitives and Richard Dix succeeds in holding them off until his river steamer may be repaired.

In this production Gwili Andre, Copenhagen beauty, makes her screen debut as Natascha, a Russian woman of mystery. Miss Andre proved herself an actress of exceptional ability. The supporting cast includes Edward Everett Horton, Arline Judge, Zasu Pitts and C. Henry Gordon. This show offers excellent entertainment if you like action.

On Saturday evening, Nov. 19, the Rollamo Theatre will offer, as an added attraction, Joe Haymes and his Victor Recording Orchestra, consisting of twelve pieces. Haymes is credited with making such record hits as "Let's Have A Party" and "When I Put on My Long White Robe," in addition to arrangements on "My Favorite Band," "Piccolo Pete" and "Man From the South."

During the past summer this orchestra has been featured with Rudy Vallee on the Steel Pier, Atlantic City, the nation's amusement resort. Late Victor releases by Joe Haymes and his orchestra are "It's About Time" and "Every Little Bit of You."

The orchestra will make one appearance on the Rollamo Theatre stage, at 9:00 after which they will play for a private dance given by local fraternities, under management of the inter-fraternity council and which will be held at the gymnasium.

### TWO AGAINST THE WORLD

This production is a comedy drama of unusual appeal. Constance Bennett is presented more as a comedienne than anything else and it gives her a chance to become even more popular with her many admirers.

The story is of two young people kept apart with everything from family pride to circumstantial murder evidence.

Neil Hamilton is cast in the leading male role as a rising young lawyer. There is an excellent supporting cast. The production at no time becomes heavy and is good entertainment.

### GRAND HOTEL

There is little we can tell you about Grand Hotel that you do not already know. It is the greatest dramatic production that has come out of Hollywood in the past two years. The cast includes the greatest actors and actresses in the movie world. Cast in this picture are Greta Garbo, Joan Crawford, Lionel Barrymore, John Barrymore, Wallace Beery and Lewis Stone.

The story written by Vicki Baum was one of the best sellers of 1930 and the second greatest story of life in a cosmopolitan hotel ever written. No one can afford to miss this picture.

### TIGER SHARK

Here is a picture that is different from the usual run of pictures. It is an epic of the Pacific Coast tuna

fishermen. Edward G. Robinson is a fisherman in command of a boat in this picture and does his usual good job of acting. Richard Arlen also gives a good presentation. There is some excellent underwater photography of schools of man-eating sharks and the battles of the fishermen with them. This picture is worth seeing.

### TROUBLE IN PARADISE

"Trouble in Paradise" is good comedy. Charlie Ruggles and Ed-

ward Everett Horton see to that part of the production. It is the story of two super crooks, Herbert Marshall and Mirian Hopkins, who rob the elite in the social capitals of Europe.

Kay Francis plays the role of a wealthy widow, who is marked for robbing by the crooks. Marshall falls in love with her and a farcical but dramatic climax ultimately sets the course of true love to rights. This is good entertainment.

### New Son to Capt. and Mrs. MacDonald

The latest contestant for the 1932 all-American football team is a half-back, born in the St. Luke's Hospital at 9 o'clock Saturday night. His name is James MacDonald, Jr., and he weighed nine pounds. He is the son of Capt. and Mrs. Jimmy MacDonald, Sr. Mother and son are reported as doing nicely. The Miner joins their many friends in offering congratulations.



*"They Click with Me, too"*

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### THE MISSOURI MINER

A weekly paper published by the students of the Missouri School of Mines and Metallurgy, in the interest of the alumni, students, and faculty.

Editor ..... K. E. Evans  
Sports Editor ..... E. L. MacReynolds  
Business Mgr. .... Thorpe Dresser  
Advertising Mgr. .... Perry Steen  
Circulation Mgr. .... A. R. Oswald

Faculty Advisor .... Dr. J. W. Barley

Entered as second class matter April 2, 1915, at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

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It seems that at every football game and every basketball game we must have entertainment (?) by the freshmen, between halves. It is a grand old tradition that must be kept alive. It gives a few swaggering sophomores (a fitting name if you'll look up its meaning) a chance to show what rough and tough boys they are. Oh, yes indeed we must have entertainment.

Personally we cannot see the entertainment value of a mob scene such as that presented when the freshmen were forced to cross a muddy field to retrieve their shoes at the Maryville game. The freshman stunt is always bad enough to leave a bad taste in your mouth during the last half of the game without the sophomores adding to it with their antediluvian ideas of collegiate behavior.

At the Tulsa University game, last Friday, a group of students, known as the Roughnecks, provide entertainment between the halves. Dressed in orange blazers, eleven of them came on the field with a football and lined up. The quarterback called signals and the players ran forward to fall into positions forming the letter T. This was repeated to form the letter U. Some substitutes were then sent in and the letters M. S. M. were formed.

This particular stunt is much used by other universities. However, the effect is not lessened on this account and the drilled precision with which the maneuver is executed adds to the impressiveness. Why can't we have something like that here? Surely there is enough brains and ability in the freshman class to produce something impressive and entertaining between halves. Many other universities have some traditional ceremony with their athletic rivals which is presented between the halves when these schools meet in athletic contests.

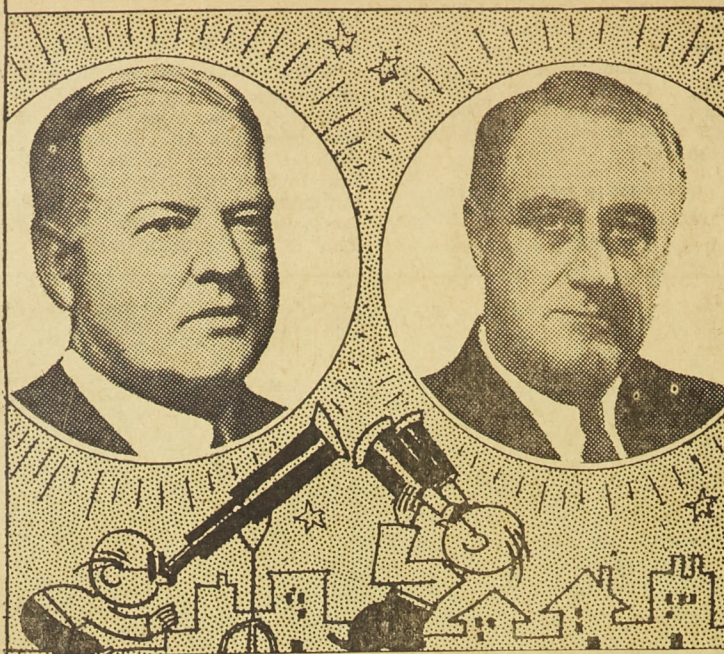
If the method of providing entertainment is supposed to instill school spirit into the freshmen it has failed miserably. This is evidenced by the almost total lack of that spirit upon this campus. At the Maryville game part of the crowd paid more attention to the supposedly comic actions of a few of the band members than they did to the game. That was an excellent display of school spirit.

The football season is almost at a close but something might be done for the last game and for the basketball games to follow. It is up to the freshman class to produce something worth seeing and the sophomores might remember that no matter how bad the stunt is, it is made worse by their disorderly and disgusting actions following it.

### FOOTBALL

Each year, along about the close of the football season, there is a so-called football game between the sophomores and freshmen. Did you ever hear of a really good reason

### Scientists Wrong . . . Another Eclipse Due



why the thing should take place?

Last year's game was the lousiest you ever saw—that is, if you wasted your time by looking at it. The principal object seemed to be to have as many fellows play as could be put on the field in an hour. And those fellows were made eligible for numerals by playing only thirty seconds, although some of them played a good deal more than that.

The Athletic Board of Control last spring decided that numerals should be awarded only to the men on the M. S. M. varsity football squad who didn't make the required time to earn letters, but who attended practice regularly and showed interest in the team. Is there anything fairer than that?

Then there is the matter of equipment. The Athletic Department each year is bothered with the checking out of some good equipment which is returned more the worse for wear, as it invariably starts raining about the time of the game. This year Newburg High School took up football, and bought most of the old equipment in the gym stock room. That means that if the freshmen and sophomores play their farce this year, they will be using varsity equipment. What's the use? Do you think it's worth while to ruin the equipment for next year's varsity?

Why not have a basketball game—that would be much better as far as the actual playing is concerned, and would probably draw more interest from the upperclassmen. After all, the only thing that's decided by the battle is whether or not the freshmen remove their caps immediately. Why in the world is it necessary to have any sort of contest anyway?—A member of the A. A.

MSM

### 21 of 27 C. E. 1932 Grads Employed

The A. S. C. E. held another of its regular meetings last Friday night. President Perry Steen held good to his promises, and the evening proved very interesting and profitable to those present.

Prof. Butler gave some interesting data on the status of last year's C. E. graduates. This data, compiled from letters received from the men, shows that of the twenty-seven who received degrees from the C. E. Department last year, twenty-one of them are now employed in C. E. work. The percentage of graduates of this department who obtained

### What Is It . . . ?



'You would never guess, so we'll tell you . . . It is water pouring from a common kitchen faucet photographed at 1/50,000 of a second by means of a new electrical control developed by Prof. H. L. Edgerton and K. J. Gernsmaier at Mass. Inst't. of Technology.

employment within the last year is equalled only by the Ceramics Department, and since the number is so much greater, Prof. Butler feels that conditions are favorable toward C. E. graduates.

The following is a list of the graduates, with whom they are working, and where:

Missouri State Highway Department—G. F. Biggs, Willow Springs, Mo.; H. J. Bruegging, Imperial, Mo.; A. W. Happy, Hannibal, Mo.; R. L. McCreight, Testing Department, Jefferson City, Mo.

County Highway Dept.—J. C. Berkenbosch, St. Louis County; E. O. Crawford, Illinois County, Illinois; C. H. Webb, Jackson County, Kansas City, Mo.; C. S. White, St. Louis County.

U. S. Engineers—Wm. Brewer, S.

L. Davis, J. B. Hinchman, and R. Rydstrom at Cape Girardeau, Mo.; W. E. Darnell, Washington, Mo.; O. P. Hunt, Hillhouse, Miss.; F. J. Malik, Hillhouse, Miss.; R. H. Lundius, Labadie, Mo.; John Matsek, Tiptonville, Tenn.; J. T. Sturm, St. Louis, Mo.; R. H. Wietop, Helena, Ark.

Construction Work—F. D. Bert, paving construction, Decatur, Ill.; R. L. Campbell, Eldon, Mo.

The other men, not now at work, are on the waiting lists of either State or Federal engineering departments.

MSM

### M. S. M. Short Wave Station on the Air

After being silent for over a year, the school's radio station is again in operation in the radio room 'atop of Norwood Hall. Prospects for a busy year look very good, as there are three licensed operators now attending M. S. M.

At present the transmitter consists of a pair of UX 210 tubes, crystal controlled, on a frequency of 3552 kilocycles with a power output of approximately thirty watts. The antenna is a full wave "zeppelin type" and may be seen stretching from Norwood to the power plant stack. (The ladder effect of the lead-in is not for the signals to climb but merely act as spreaders to keep the two feeders from swinging.)

Doug Martin of the E. E. Department designed and built the equipment and has worked hard the last few days getting things in shape. First contact was established with W3ADE of Pennsylvania, Thursday evening.

The following students have amateur licenses and hold the following station calls: Doug Martin, W9DUM, Rolla, Mo.; F. Peebles, W8BLF of Dayton, Ohio; J. P. Rasor, W5CJH of Carlsbad, N. M.; and W6DMK of Beverly Hills, Calif.

A Radio Club is being planned by the above fellows, and all who are interested in learning the code are welcome to attend code classes which will be held shortly. The station will also handle messages free of charge for the students as soon as things are settled and operating schedules can be arranged.

MSM

### Pan-Hellenic Dance Will Be Saturday

On Nov. 19, all of the fraternities and clubs on the campus will give a fall dance. This dance is being arranged by the Interfraternity Council with the idea that it may help bind the various organizations closer together and induce more harmonious relations between them. It is the first of its kind ever attempted on this campus, although it is an annual affair on many college camps throughout the country.

The dance is to be given in the school gymnasium and will be for fraternity men only. Joe Haymes and his orchestra have been secured for the affair. It is a well-known twelve piece band that has written quite a few orchestrations for Ted Weems. In addition to the music that they furnish, they also have several novelty numbers.

The gymnasium will be decorated for the event but as yet such decorations as will be employed have not been decided upon definitely.

A large number of out-of-town dates are being marshalled for the dance and they will help to make it a great affair. Each fraternity is inviting several chaperones and guests from among the professors and business men of Rolla so the dance will be most ably chaperoned.



# FOOTBALL

Last Game of the Season

## MINERS

VERSUS

## ST. VIATOR

Support Your Team  
They Do The Work

KICKOFF AT 2:30

LET'S GET OUT AND SHOW  
SOME SPIRIT



**FOOTBALL**  
Continued from Page 1

yard loss. McDonald made eight yards through tackle. Schwab made three around end and on the fourth down Kirchhoff punted to Berry on the Tulsa thirty-one yard line. After failing to gain through the line, a pass from Green to Berry was good for twenty yards, placing the ball on the Miners forty-nine yard line. Gibson and Mit Towse broke through to smear Green for a five yard loss and one the next play Green punted to Towse on the Miners' twenty yard line.

The Miners failed to make first down and Kirchhoff kicked to Tulsa's thirty-six yard line. In two attempts Berry made eight yards. Day made it first down on the Tulsa forty-seven yard line. Tulsa failed to gain through the line, and this, coupled with one incomplete pass, gave the ball to the Miners on downs. The Miners again failed to make first down and Kirchhoff kicked to Berry on the Tulsa forty-two yard line, and after being hit by three Miner tacklers before his interference formed, he zig-zagged down the field for the second Tulsa score. Berry's kick for the extra point was wide, leaving the score: Tulsa, 13; Miners, 0.

Tulsa kicked off to M. Towse who returned the ball ten yards to the Miner forty-one yard line. On the next play Towse fumbled and the ball was recovered by Tulsa. Time out was called by the Miners as Towse's shoulder was dislocated on the play.

In four tries Green made first down through the line. Green's pass to Lassiter was incomplete. The second attempt was intercepted by Art Williams, giving the ball to the Miners on their own thirty-two yard line. Again the Miners were unable to make first down and Kirchhoff kicked out of bounds on the Miner forty-nine yard line as the half ended. Score: Tulsa, 13; Miners, 0.

Green kicked off to McDonald on the Miner's eight yard line and he returned the ball to the twenty-one yard line. Williams fumbled and recovered for a three yard loss. From a fake kick formation, Williams made four yards through center. On the next play Kirchhoff kicked to Berry on Tulsa's ten yard line and he was downed in his tracks by Tetley.

Tulsa failed to make first down and Green punted to Williams on the Miner thirty-five yard line, Williams then returning the ball to the Miner forty-five yard line. A pass, from Williams intended for M. Towse, was intercepted by Berry on Tulsa's twenty-five yard line, who returned three yards before he was stopped by Hardaway. A pass, Berry to Alexander, was good for twenty-five yards, making it first down for Tulsa. On the next three plays Tulsa failed to make first down and punted to Williams.

Williams lost fourteen yards on an attempted pass. Kirchhoff got off a short kick to mid-field which hit a Tulsa player on the head and was recovered for the Miners by P. C. McDonald. The Miners again were unable to make first down and Kirchhoff kicked out of bounds on Tulsa's twenty yard line.

Green made eight yards from a fake kick formation and Workman made it first down on the Tulsa thirty-one yard line. Green made

twenty-two yards around his own left end, being stopped by E. Spotti. On the next play Green was thrown for a two yard loss by Kirchhoff. Green dropped a pass from Workman and then on the next play failed to gain through the line. Green punted to Towse, who took the ball on the twenty yard line and returned to his own thirty yard line where he was downed by Littrell. A lateral pass from Towse to McDonald lost nine yards. Kirchhoff kicked to Tulsa's thirty-six yard line. Green made nine yards around end as the quarter ended.

On the first play in the fourth quarter Green fumbled and six Miners recovered the ball. A pass from McDonald to Kirchhoff was incomplete. On the nextplay Towse went around his own left end for thirty-five yards, the longest gain made by the Miners during the game. The Miners then had the ball on Tulsa's five yard line, first down and goal to go. McDonald failed to gain. Towse made one yard through center.

On the next play both sides were off sides and the play was called back. On the succeeding play one more yard was gained, placing the ball on the three yard line. Towse passed to Spotti in the end zone but it was incomplete and Tulsa got the ball on the three yard line on downs, ending the Miners only strong scoring threat during the game.

Green punted to the Miners fifteen yard line where the ball was downed by Tulsa. Schwab fumbled and recovered for a five yard loss. Towse made three yards from a fake kick formation. Kirchhoff punted to the Miner thirty-two yard line.

Green made nine yards through the line. On the next play he made it first down on the Miner nineteen yard line. I. Spotti stopped Green for a one yard loss. Workman made two yards. On a spinner play Green failed to gain when he was stopped by Hardaway. A tripple pass, Day to Green to Workman, accounted for the third touchdown. The ball was partially blocked by McDonald and was deflected into Workman's hands. Workman converted the extra point making the score: Tulsa, 20; Miners, 0.

Tulsa kicked off to Kirchhoff on the Miner twenty-yard line and he returned to the thirty-three yard line. A pass from McDonald was intercepted by Day who ran the ball back to the Miner twenty-four yard line. Berry made first down in four attempts, placing the ball on the Miner fourteen yard line. Berry made eight yards around end before being pushed out of bounds by McDonald. Day made one yard at center. Workman hit center for five yards. On the next play Berry went around his own right end for the fourth and final touchdown. The entire Miner line crashed through to smother Berry's kick for the extra point. Score: Tulsa, 26; Miners, 0.

Touchdowns: Tulsa—Berry 3, Workman 1. Points after touchdown: Berry 1, Workman 1. Passes: Miners—Completed one out of 7 for 25 yards (with two intercepted); Tulsa—completed 6 out of 14 for 135 yards (with one intercepted). First downs: Miners, 4; Tulsa, 16. Penalties: Miners 2 for 10 yards; Tulsa 4 for 20 yards.

Substitutions: Miners—Tetley, M. Towse, Levy, Williams, Magyar,

Denton, E. Spotti, Zell.; Tulsa—Casey, Allen, Workman.

Officials: Earl Jones, Arkansas, referee; Joe Ramp, Cincinnati, umpire; H. G. Fisk, Kansas, head linesman.

The game ended as Williams returned the kickoff twenty-two yards.

**Lineup**

MINERS		TULSA
Kirchoff	L. E.	Lyons
Hassler	L.T.	Carrall
Oswald	L.G.	Alexander
McDonald, P. C.	C.	Morris
Hardaway	R.G.	Capps
Gibson	R.T.	Lassiter
Spotti, I.	R.E.	Duggar
Towse, R.	Q.B.	Berry
McDonald, J. (c)	L.H.	Green
Schwab	R.H.	Lentz
Wommack	F.B.	Day
—MSM—		

**Miners Get Warm  
Welcome at Tulsa**

The Miners were accorded a very hospitable reception when they traveled to Tulsa last Friday. A large number of alumni dropped in at the hotel during the forenoon to greet the boys and show them the points of interest about the city.

At noon, Coach Grant attended a Chamber of Commerce luncheon. After the luncheon he made a short talk which was broadcast over KVOO, the Tulsa broadcasting station.

At six-thirty, Friday night, the Miners and the Tulsa alumni met at the Hotel Alvin for a banquet. After an excellent dinner Coach Grant made a short talk on the current happenings of the campus and then introduced the members of the squad and the others who made the trip. The alumni were then introduced, with some humorous accounts of their days at M. S. M.

Tickets for a show at the Coliseum were given to those who wished to attend after the banquet.

**MSM**

Miss Ouri—You never go out at night with your husband any more. Mrs. Ippi—No. The only thing that old relic takes out at night now is his teeth.

Lady La de Dah (to daughter, as new hotel guests arrive)—More vulgarians!

New Arrival (to friend)—Did you hear that woman? She takes us for a couple of foreigners.

**Rollamo Theatre  
PROGRAM  
Rolla, Missouri**

**Thursday & Friday, Nov. 17-18**  
Harold Lloyd in

**"Movie Crazy"**

The King of Komedians latest scream.  
Also "Bon Voyage" a Comedy

**Saturday, Nov. 19 (Eve. Only)**  
Richard Dix in

**"Roar of the Dragon"**

Also "Speed in Gay 90's" and "Railroad Wretch" Cartoon  
SPECIAL ADDED ATTRACTION  
Joe Haymes and his Victor Recording 12 people—Orchestra—12 people in a program of novelty numbers and snappy music.

One appearance on stage at 9 p. m.  
NO ADVANCE IN PRICES!

**SATURDAY MATINEE ONLY  
"LIGHTNING WARRIOR"**

**Sunday, Nov. 20**

Constance Bennett with  
Neil Hamilton in

**"Two Against the  
World"**

The very clever Connie in a splendid picture.  
Also News—"The Champ"—  
"Pageant of Siam."

**Monday & Tuesday, Nov. 21-22**

The picture everyone has been waiting to see—

**"GRAND HOTEL"**

with the greatest cast ever assembled  
Joan Crawford, Greta Garbo, John and Lionel Barrymore, Wallace Beery and Lewis Stone.

**Wednesday, Nov. 23**

Edw. G. Robinson in

**"Tiger Shark"**

Also News—"Endurance Flight"—  
"Baby O'Mine"

BARGAIN NIGHT—Two for one.

**Thursday & Friday, Nov. 24-25**

Kay Francis, Miriam Hopkins and  
Herbert Marshall in

**"Trouble in Paradise"**

**DON'T FORGET  
WE STILL HAVE THAT DELICIOUS  
FRESH EVERY DAY**

**Popcorn**

at

**ROLLAMO SODA SHOP**

WALLACE TUCKER, Proprietor

**We Invite You to Inspect Our Plant  
You Are Always Welcome  
CHOICEST CARBONATED BEVERAGES  
DISTILLATE—FUEL OIL—COAL—WOOD  
OZARK SUPPLY CO.**

PHONE 66

**You All Know JOHNSTON'S CANDIES,  
Well, We Have Them at  
SCOTT'S — The Miners' Co-op.**



## THRU THE TRANSIT

**By Pin, Who Will Still Be a Democrat When the Depression Is Over.**

Now that the Democrats have elected their nominee to office the troubles, trials, and tribulations of the country are at an end. We are almost afraid to walk around a corner for fear that old man prosperity will jump up and hit us. In fact, within a few weeks we won't be able to get our hands in our pockets for the ten dollar bills there. And that will be a very sad state of affairs, indeed, with winter coming on in such a hurry. Just before election we saw three men chasing a rabbit across a field, but since election we again saw the rabbit and there wasn't but one man chasing it. That's what prosperity and the Democratic party do for times as trying as these. But then, who are we to be putting out such excellent political publicity without being on the payroll of either party.

Squint returned from Tulsa with grand tales about the service between halves in the press box. It seems that they even served free lunch. Knowing Squint as we do we guess that he probably looked for the swinging doors when he started to leave.

Colonel Settle is losing his grip. It must be old age over taking him. No one can remain a freshman for several years without some bad effects. Anyway, Bennie Grossburg, the pride of the Murphy house, took over the Colonel's job on the Tulsa trip. Disguised as a Gladstone bag he made the trip under the seats of the car and even crashed into the limelight in Tulsa by running a telephone on the sidelines.

The contest for the high and mighty office of Kampus King is reaching its final stages and by next week or the following week we hope to be able to congratulate the lucky man. And what a man he will be! Few ever receive an honor to compare with the one we are preparing to bestow on the fortunate individual. The contest is getting hot and the race will be a close one as several of the candidates are practically neck and neck on the home stretch. If you haven't yet cast your vote, do so. It is the duty of every citizen—no, we mean every student, to vote. Pardon the slight detour in mentioning citizens but our mind still seems to be on the recent political campaign. Cast your vote in the Miner box in the Treasurer's office. The candidates are: Rudy Maehl, Jack Wright, Personality West, Flash Hahn, and Gloer. Remember that the Kampus King will get his picture before his admiring public in the Rollamo.

Better spirit was evidenced by the student body last Thursday evening when the team left for Tulsa than has been shown in several years. A large crowd was there to see them off and such spirit is greatly appreciated by the players themselves. It shows that some interest is being taken by the students. Even if we did lose the game, don't let that old Miner spirit lag. Keep it up and support the team this week, the last game of the season.

And among various thoughts during the week:—Grades coming out. —Letters home to explain those "F's." —Letters of congratulation from home to those lucky ones who amass grade points. —Hunting season. —And too many cuts already. —Winter coming on in full force. —Flurries of snow. —Visions of bobsled rides and ice skating. —

Ducks going down south where its "Heaven on earth below."—One of the best shows of the year in "The Big Broadcast."—The army making a fine showing and presenting a very impressive ceremony on Armistice Day.—Max McCrory in his glory leading the parade.—Sighs from the girls on the sidewalks during the parade.—Dutch Tittle and Marks Hinton giving razzberries to Charlie Rodd when he marched past.—Writing on the side of the train that went to Tulsa.—A very irate conductor for the same reason.—And so on far, far into the night.

—MSM—  
**IRA REMSON**  
(Continued from Page One)

ca are of this type and contain from ten percent to sixty per cent nitro-glycerine. This mixture is tamped carefully into paper cylinders and covered with parafine. The dynamite is then prepared for shipment.

Blasting gelatine is made from nitro-glycerine and nitro-cellulose. The nitro-cellulose, similar to gun cotton, is made in the same way as nitro-glycerine, except that cellulose is used instead of glycerine. The guncotton is dissolved in the nitro-glycerine to form a gel. It is packed in the paper cylinders like the dynamite. Gelatin dynamites are prepared by making a thinner jelly—containing lower ratios of nitrocellulose—and incorporating therein a mixture of wood flour and sodium or potassium nitrate. Nitrocellulose is one of a family of cellulose nitrates. They are contained in collodion, pyrolin, lacquers, smokeless powders, etc. In the making of dynamite all the apparatus is made from wood, rubber, bronze or brass to keep from getting any sparks. Containers for the nitro-glycerine are made from rubber to absorb any shock.

When preparing the nitro-glycerine, the temperature must be closely watched for if the temperature of the mixture should rise quickly disaster would result. In order to prepare for this danger the preparation is made in a kettle over a quantity of cold water. If the temperature goes up they dump the mixture in cold water.

These nitrating chambers are small rooms where only two or three men go in at a time. They are surrounded by earthen embankments which slant to the top, so the force of an explosion follows the curvature of the hill. Mr. Wiedeman told of a terrific dynamite explosion near a river. A steam boat traveling down the river was damaged by the explosion and it is an actual fact that all the negro roustabouts were blown uninjured into the water on the other side of the boat. Frozen dynamite is also dangerous as it can't be used when frozen, but must be thawed out.

Dynamite is used to a great extent in the mining industry. In coal mines and in some quarries slower explosives are used in order to get larger lumps. These slower explosives are usually black powder or liquid air. When the size of the lump is not essential, dynamite is generally used. For any job requiring the breaking up of large quantities of material, quickly and cheaply, dynamite is the thing to use. Work done under water must be done by blasting gelatine. Guncotton, cordau and T. N. T. are the principle wartime explosives. Mr. Wiedeman showed a film for the industrial uses of dynamite. It also showed how the physical and chemical tests which dynamite must undergo were done.

There was a large crowd and they seemed really interested in what the speaker had to say.

### STUNT NIGHT

Continued from Page 1

it. The beautiful trophy that goes to the winner each year was presented to the Bonanza Club last year. The trophy is now in the office. It is really a fine ornament for any chapter house.

Any club, fraternity or organization may present a stunt in the competition. Last year ten organizations presented acts. Due to the number the time limit is placed at fifteen minutes for each act including the change of scenery and presentation. There were some really clever acts presented last year and the competition was exceedingly keen. The General Lectures committee hopes that a better showing will be made this year.

There is only a short time left for the organization to select their acts. The committee desires that the names of the stunts to be presented, be in the office before Thanksgiving. That leaves only a week for the selection of the stunt and two weeks for rehearsal.

Very few of the organizations have started to prepare their acts as yet. This should be done immediately if a performance equal to the one last year is to be presented.

—MSM—  
**STEPHENS**  
(Continued from Page 1)

phens since 1909 except for a two year period when he was the head of the piano department at Drake University.

Miss Leland, who will play the violin, is a graduate of the Cincinnati Conservatory of Music. She has studied with Ysaye, the famous violinist, and also with Carl Flesch in Berlin. She has been instructor in violin at Stephens for the past five years.

Miss Fretz graduated from the Oberlin Conservatory of Music in Ohio. She has been instructor in violin at Stephens for the past five years.

Miss Fretz graduated from the Oberlin Conservatory of Music in Ohio. She has been instructor in violin-cello at Stephens for four years. She will play the 'cello in the concert Thursday night.

The program will commence at 8 p. m. and is one which all interested in music and all who appreciate excellent music should not miss.

The following is the program as it will be followed by the trio:

TRIO IV. Op. 11 ..... Beethoven  
'CELLO  
Andante from "Orpheus and Eurydice" ..... Gluck-Schulz  
Rondo ..... Boccherini  
Miss Fretz  
VIOLIN  
Caprice ..... Elgar  
Spanish Dance No. 8 ..... Sarasate  
Miss Leland

TRIO  
Elegie ..... Arensky  
Scherzo ..... Mendelssohn  
PIANO  
Mazurka ..... Chopin  
Etude ..... Chopin  
Nocturne ..... Chopin  
Polonaise ..... Chopin  
Mr. Gauntlett

TRIO  
Molly on the Shore ..... Percy Grainger  
Norwegian Dance ..... Grieg  
Hungarian Dance ..... Brahms  
—MSM—

"I told Swellfront there were dozens of people in this town who had never heard of him."

"I'll bet that took down his pride a bit, didn't it?"

"Naw. He asked their names and addresses and then set out to find them and try to borrow something from them."

Mistress—Now, Matilda, I want you to show us what you can do tonight. We have a few very special friends coming for a musical evening.

Maid—Well, ma'am, I ain't done no singin' to speak of for years, but if you-all insists upon it you can put me down for "The Holy City."

### JIM PIRTLE

**WATCHMAKER & JEWELER**  
Fine Repair Work a Specialty  
33 Years Experience  
25 Successive Years in Rolla

### TRENKEL'S

**Bakery and Confectionary**  
OLD RELIABLE

### JESSYMAE TEA ROOM

Plate Lunches  
Sandwiches — Salads  
and  
Short Orders

### MEET 'EM AT The Miner's Retreat

Billiards &  
Smokes

### COMPLIMENTS

of

### C. D. VIA

HOUSE OF A 1000 VALUES

### Miners' Lounge

A Place to LOAF  
A Place to STUDY  
A Place to EAT Quickly  
Candy -- Cigars -- Soda

RUN BY  
AL SMITH





#### THE SEA WOLF

"Nature in the Raw"—as portrayed by the noted artist, N. C. Wyeth... inspired by the infamous Captain Kidd's fierce raids on the gold-laden Spanish galleons (1696), which made him the scourge of the Spanish Main. "Nature in the Raw is Seldom Mild"—and raw tobaccos have no place in cigarettes.

## No raw tobaccos in Luckies —that's why they're so mild



Copr., 1932,  
The American  
Tobacco Co.

WE buy the finest, the very finest tobaccos in all the world—but that does not explain why folks everywhere regard Lucky Strike as the mildest cigarette. The fact is, we never overlook the truth that "Nature in the Raw is Seldom Mild"—so these fine tobaccos, after proper

aging and mellowing, are then given the benefit of that Lucky Strike purifying process, described by the words—"It's toasted". That's why folks in every city, town and hamlet say that Luckies are such mild cigarettes.

**"It's toasted"**  
That package of mild Luckies

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