



05 Nov 1920

The Missouri Miner, November 05, 1920

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Vol. 7, No. 10.

Friday, November 5, 1920.

Price, 8 Cents.

WARRENSBURG CONTESTS OUR CLAIM TO CHAMPIONSHIP TOMORROW.

This Will Be the Most Difficult Conference Game of the Year.

The Warrensburg Normal eleven arrived today for their game with the Miners on Jackling field Saturday. The Normals do not have a clean sheet in the conference, having two victories and one defeat to their credit, Missouri Wesleyan, last year's conference champions, handed them their defeat earlier in the season; but since then the Normals have come back strong, beating Tarkio and only last week cleaning the strong Drury eleven to the tune of 27 to 0.

So it is, then, that Warrensburg is still a strong contender for the conference championship, and, if all reports are true, will attempt to administer the same dose to the Miners that they gave Drury. Of the conference teams the Miners meet this year the Normals, no doubt, will prove the most difficult to handle. They are known to have a varied attack, depending on Moles, a shifty open field runner for the majority of their gains. Most of their scoring, so far this year, has been via the aerial route, and they may be expected to use it to the best advantage tomorrow.

This is no easy game, and every ounce of the Miners' energy must be expended to win it. The condition of our team is such that it can meet this emergency handily. Four of the men, who received injuries in

Continued on Page Ten.

YOU CAN'T TAG ME.

WHITE



The Ancient and Honorable Order of Stags, whose insignia was a white ribbon, made all the stags ace-high during the encores.

MINER HALLOWE'EN DANCE.

On the whole the first Miner dance of the year, the Halloween dance, given on October 29th, was the best dance of its kind ever given here. The gymnasium was resplendent in all colors of the autumn time, and this, coupled with the lighting effect, contributed to make exactly the correct background for a true Halloween dance. A five-piece orchestra from St. Louis furnished the music.

The special number during the evening, which added great

Continued on page four.

MINERS HOLD ARKANSAS TO A LOW SCORE.

Razorbacks Able to Cross Our Line Only Twice. Score Was 14 to 0.

The Miners were defeated last Saturday by the Arkansas U. eleven, the score being 14 to 0. Our team entered the game minus four of its regulars, and altho outweighed some fifteen pounds to the man, held the Razorbacks to one touchdown in the first quarter, and one in the final period. Misfortune was in the Miner's camp, for thrice during the game our team was in the shadow of the Razorbacks' goal, and yet could not score. During the first quarter, as the result of a blocked punt, the Miners had the ball on Arkansas' one-yard line, but could not put it over. Again, in the second period, "Buddy" sent the ball behind their goal, but no one was there to receive it, and in the last few minutes of play Arkansas punted, the Miners blocked and recovered the ball behind their goal, only to find that an offside, not only lost them the score, but a 5-yard penalty besides. The game was well played, the team as a whole showing to good advantage. Buck, playing his first game at tackle, showed that he has the stuff in him, and can fight to a finish. With his development for a line position the Miners are well supplied, and should be able to present a stone wall defense in the remaining games. The following is Saturday's game, play by

Continued on Page Three.

Prof. Butler.

THANKSGIVING IN TULSA.

With three more games to play this season, two of which are Conference games at home and the third with Henry Kendall College of Tulsa, the Miners are now striving for a clean schedule for the remainder of the season. Prospects have never been brighter, and it is our earnest desire that the old M. S. M. men could see this year's team in action. One thing we are sure of, and that is that it would work wonders among the alumni towards renewing their interest in the college athletics of their Alma Mater.

According to the records on file in the Director's office there are over one hundred and fifty Alumni and ex-Miners in the vicinity of Tulsa and the Oklahoma oil fields. What better chance should these men ask

for to see their team in action than to attend the game with Henry Kendall on Thanksgiving Day.

E. N. (Pat) Murphy has written the office asking for the address of all men located near Tulsa, in order that he can get in touch with them and have a real bunch out for that game. A copy of this week's Miner is being sent too every man in the Oklahoma district, regardless of whether he is a subscriber or not, in an endeavor to arouse some of that old school spirit that he has been longing to express ever since he left school.

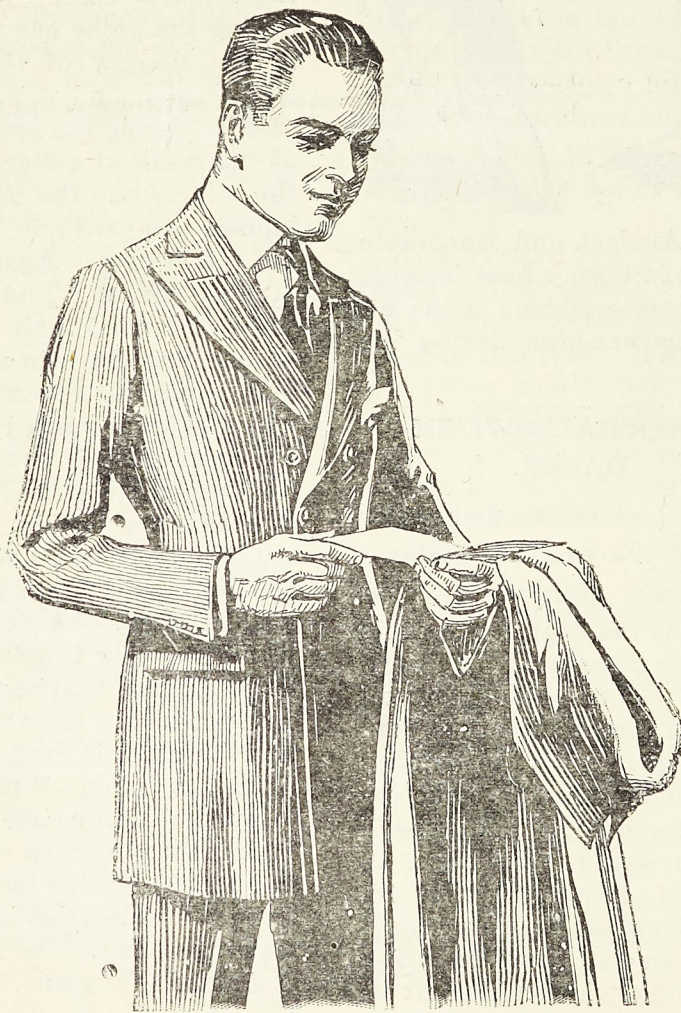
After you read this article don't try to find out whether some of the other fellows are going or not, the thing to do is to make up your mind that you are going to see that game, and then start out to get as many

other fellows to go along with you as you can get hold of. Appoint yourself a committee of one in favor of putting on a football reunion in Tulsa on Thanksgiving Day. Let's show them that we can "Give 'em Hell, Miners."

SECOND MINER DANCE**SATURDAY, NOV. 13.**

The second Miner dance of the year will be given Saturday night, November 13th, in the gymnasium. Hunt's orchestra of five pieces has been secured to furnish the music, and every one may come prepared for a good time. This is the night of the Drury game. The "price" will be seventy-five cents.

"Bud" Weiser is now in Marble, Nevada, in the position of assayer and mine surveyor.



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MINERS HOLD ARKANSAS TO A LOW SCORE.

Continued from Page One.

play, with substitutions made:

Arkansas Scores in First Quar- ter.

The Miners kicked to Arkansas, Buck stopping the man returning the ball. Arkansas thru tackle 1 yard. Thru center 1 yard. Arkansas punted to White. "Buddy" lost 3 yards on an end run. White no gain. Owens one-half yard. Miners punted to Arkansas' 20-yard line. Arkansas lost 3 yards thru Buck, and then circled left end for 11 yards. Arkansas failed to gain in the next play, and punted to "Buddy" on 25-yard line. White lost 3 yards around left end. "Buddy" failed to gain, and punted on third down. Arkansas' ball on Miner 30-yard line. Arkansas went thru guard for 8 yards. Tried guard again and failed to gain. Off tackle to Miners' 4-yard line. Gained 3 yards thru line. Off tackle, no gain. The next play resulted in a touchdown. Arkansas 7, Miners 0.

Miners Lose Chance of Scoring.

Miners received, Kenning returning the ball half the length of the field. "Buddy" gained 1 yard thru line, Owens adding 2 yards more thru center. A pass to Wilson was incomplete, and the Miners punted. Arkansas' ball on their 20-yard line. On the first play Arkansas lost half yard, but regained it on next play. On third down with 10 yards to go Arkansas fumbled, but recovered, losing 5 yards. Arkansas kicked, but Buck blocked the ball, and recovered it on Arkansas' 8-yard line. Owens gained 2 yards thru line. No gain on second and third down. "Buddy" to Arkansas' 1-yard line. Time out, Parkhurst. Quarter up. Arkansas' ball on Arkansas' 1-yard line.

Second Quarter—Miners Lose Second Chance of Scoring.

Arkansas kicked from behind their goal. Miners complete 20-yard pass, Owens on the receiving end. Kenning gained 5 yards, but lost 2 yards on next play. A pass to Wilson over the goal line was incomplete, Arkansas taking the ball on their 20-yard line.

Arkansas gained 10 yards thru line, and repeated on second play with 20 yards more. A pass was incomplete. They gained 8 yards thru line, and half yard thru center. First down thru line. Arkansas thru tackle half yard. Two passes netted them 2 yards, one being incomplete. Failed to make first down thru line.

Miners' ball on their 15-yard line. "Buddy" thru line 4 yards. Miners thru line 1 yard. "Buddy" punted to Arkansas' 40-yard line.

Arkansas thru line 25 yards. Time out for Buck, Fischer taking his place. Arkansas around end 1 yard. Pass incomplete. Thru line 2 yards. Around left end, no gain. Arkansas punted. Miners fumbled, but recovered on 10-yard line. "Buddy" failed to gain, and punted to Miners' 45-yard line. Arkansas gained 2 yards thru guard. Arkansas penalized 15 yards for holding. Around right end for 19 yards. Third down, 1 yard to go. Half ended. Score, Arkansas 7, Miners 0.

Third Quarter Scoreless.

At the beginning of the second half Buck was put back at tackle, and Brandenburger was substituted for Wilson.

Arkansas kicked to "Buddy" on 20-yard line. A pass to "Brandy" was incomplete. One to Kenning made first down. Pass to White incomplete, Brandy getting a second one out of bounds. A third pass to Owens

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Continued from Page One.

ly to the affair, was the dance given by Miss Maxine Smith. W. L. Stewart, acting as the spirit of Hallowe'en, after greeting from his throne those present on this, his second annual visit to the school, amid a myriad of many-colored fires brought on by his witchery, called forth his queen, in the person of Miss Maxine Smith, who did a very pretty dance for those assembled. After this dance, which occurred after the fifth on the program, the music was resumed, and dancing continued until two o'clock in the morning.

Throughout the evening the presiding witch, in the person of Mr. Virgil Whitworth, was consulted frequently as to the past, present and future of many of the dancers. It was an evening of perfect enjoyment, enhanced not a little by the efforts of those whom we take this means of thanking very cordially: first, Miss Maxine Smith, for her splendid dance; second, "Bill" Stewart, for his excellent interpretation of "The Spirit of Hallowe'en"; third, Prof. H. H. Armsby, for his arrangement of this part of our program; fourth, Virgil Whitworth, to whom we owe credit for the decoration of the gymnasium, and a great part of the work connected therewith; fifth, Keeter, Lumpkin and Wallace, for doing our electrical work; and lastly, we feel very indebted to all of those who helped us in any way whatever with the dance.

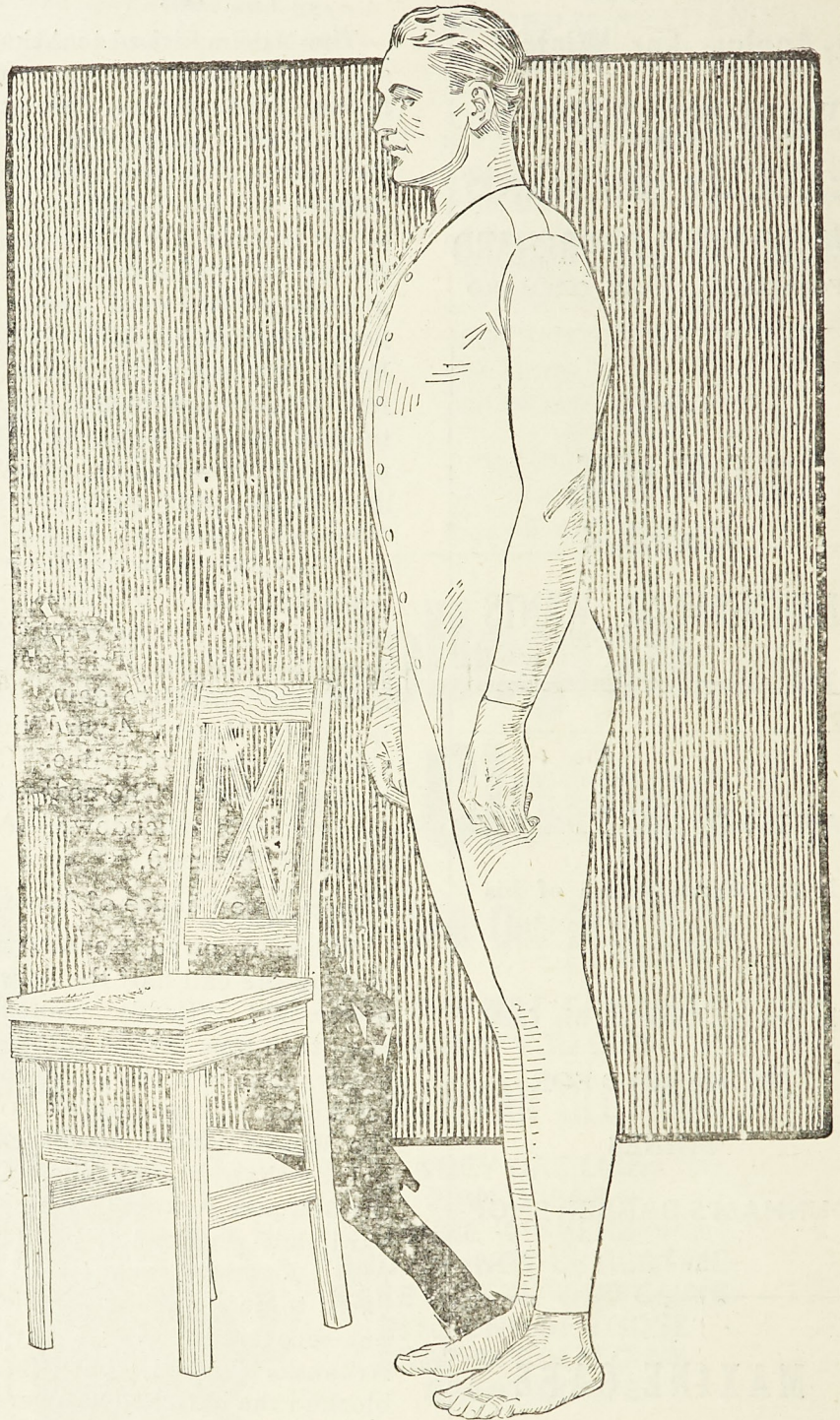
As It Was.

Some were said to have remarked that the light that was given out by the big yellow moon was not enough, while others seemed to think that it was too much. Be that as it may, we endeavored to please all; so it must have struck a

Continued on Page Seven.

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BUREAU OF MINES**CAR HERE.**

Bureau of Mines car No. 4 is now standing on the tracks here and will probably be here for two weeks. The car is in charge of John B. Hynal, foreman miner, and Joseph Benedict, first aid miner. This car works out of Pittsburg, Kansas, and makes the rounds of all mines and mining schools in the vicinity. Dr. J. J. Rutledge, of McAlester, Okla., district engineer, has charge of the movement of the car, and will probably spend a short time here this week. While here the man in charge of the car will give courses in mine rescue work to the Juniors, and courses in first aid work to any one in school who wishes to take the work.

B. E. Charles, '20, is with the Chino Copper Co., Hurley, New Mexico, P. O. Box 1433.

Subscribe For The Miner.

WISHON, '08, WANTS TO ORGANIZE M. S. M. ALUMNI.

John Bowles is the recipient of a letter from A. Emory Wishon, '08, now at Fresno, Calif. He is general manager of the Sanjankin Light and Power Co. at present, but hopes to leave his work for a couple of weeks in the spring, that he and Mrs. Wishon may be present at the celebration of the fiftieth anniversary of M. S. M. He writes that he is very anxious to organize the alumni of the School of Mines, as many of the strongest schools in the country are doing, having it include all men who have had as much as two years here, as he still believes that good men are fired young.

ARMISTICE DAY CELEBRATION.

Owing to the fact that the program for the celebration of Armistice Day has not yet been definitely arranged, the Miner has been unable to publish a detailed account of what is to take place on Thursday. However, we may say that the celebration will be a good one.

It is a national request that at the hour of eleven on the day of Nov. 11th every person shall remain standing for the duration of one minute, in honor of those brave boys who gave their all for their country in the great struggle overseas. This custom is to be observed in all of the allied countries.

Pennsylvania has more higher institutions of learning than any other state in the Union, 67 being located in the Keystone state. In order follow Illinois 59, New York 54, Ohio 53, and Missouri 41.

In Japan only one person in 6,700 ever attends a school of college or university grade.

One-seventh of the students in the universities of France are from other countries

MO. MINING AND MET. ASSOCIATION.

At the business meeting of the Mo. Mining and Met. Association Wednesday night A. F. Delaloye was elected president, and A. L. Ackers secretary-treasurer. The meeting was then turned over to Prof. J. Guiteras, who gave a very interesting talk on the mining of the Braden Copper Co., at Rancagua, Chile. He illustrated his talk with numerous sketches and photographs from the field. Those who were not present missed one of the best talks of the year. After the talk refreshments were served in the form of sandwiches and cocoa.

There will be a meeting about the first week in December. Watch the Miner for further notice. All Junior or Senior Miners and Metallurgists see one of the membership committee, composed of A. F. Denison, Davidson, Ackers, Packman and Booker, and give him your dollar before next meeting.

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Among those present at the Arkansas U. football game were two old Miners, M. L. (Babe) Dorris, and Carl Jungk. "Babe" is now smoke chemist for the three zinc smelters of Ft. Smith, Arkansas, and Jungk is engaged in the oil business at Bentonville, Ark.

THE MISSOURI MINER.

A weekly paper published by the Students, in the interest of the Alumni, Students and Faculty of the Missouri School of Mines and Metallurgy, Rolla, Mo.

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STAFF.**Editorial.**

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Joe M. Wilson Cartoonist

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K. W. Booker General Manager
W. F. Netzeband Business Manager
S. M. Burke Circulation Manager

Issued Every Friday.

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EDITORIAL.

Two vanity cases were lost at the Hallowe'en dance last Friday night. Owners may have them by identifying their property to Karl Booker, general manager.

This monthly grade sheet is a pretty good plan. It is much better to know in time that you are flunking, so you can get a "hump" on you, than it is to loaf to the end of the semester and then discover that it is "too late."

Every courtesy should be extended to visiting teams. To this end, it is requested that all Rolla people stay on the north side of Jackling Field. The south side belongs to the visiting team, and as they cannot get closer than fifteen feet to the side-lines, it is not fair for a bunch of fellows to crowd in front of them so they cannot see the game and how their team is coming (or going.)

**PROF. HARRIS' WORK
ON WATER CONDUIT.**

Prof. Elmo G. Harris has worked out some original charts for the solution of Manning's formulae for calculating the dimensions of different kinds of flumes and conduits. With the quantity of water in cubic feet per second, slope of the water surface, and two constants, one depending upon the material of which the waterway is constructed, and the other on the slope, that is, whether it be rectangular, trapezoidal, circular or egg-shaped in cross section, it is possible to calculate the depth the water way must be to carry the desired quantity of water. Prof. Harris supplies charts for shortening the computations and gives a table of the values of the necessary constants and their logs. These charts and their explanation have been published in the Engineering News-Record of Oct. 28, 1920.

OFFICER 666.

This play, one of Broadway's most popular productions, will be staged at Parker Hall on the evening of Wednesday, November 17th, at 8:15. It is the best play that has ever been produced at M. S. M., and should enjoy a good crowd.

The cast, made up of persons who have all had previous experience in theatricals, is the best possible. Each member of the cast is working earnestly to make the play one which will live long in the memory of all who attend the presentation.

Tickets for the play may be obtained from any member of the Rollamo Board, or at H. & S. Seats will be on reservation at H. & S. on Monday, Nov. 8, at 12 M.

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Continued from Page Four.

happy medium, for everybody came happy, remained happy, and went away more happy, even though it was two bells.

"Chock" Homer was supposed by many to have been seen putting on the best struggle of the bunch. It was indeed a treat to see them, and we hope that "Chock" will have her down again.

One noticeable thing was the exceptional attendance of out-of-town guests. The fellows are to be congratulated on their choice, as they sure were all peaches.

Sure thing the stags had some time as they seemed to have more dances than the fellows who had dates. It might be that the spirit of free love is with us. Do not misinterpret this, boys.

That green and red fire was a product of the fertile mind of Fred Lane and, of course, Stew-

art put the spirits in it (wood alcohol). For those that do not know, should they care to become ghosts, they have only to take a sip of said wood alcohol. Possibly then you could visit M. S. M. next year at the next Miner Hallowe'en dance as a real ghost. We could all "shimmy" truthfully then.

We certainly wish to thank the faculty for turning out so well—all five of them, Dr. Fulton, Lieut. Peckham, and Profs. Rhoades, Dennie, Turner and Armsby. It certainly makes the student body feel good to see such a large (?) percentage of the faculty so heartily supporting school activities and functions.

Mr. and Mrs. W. W. Kiskaddon, of Tulsa, Okla., are the proud parents of a nine-pound baby girl, born November 2nd.

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THURSDAY AND FRIDAY
NOV. 11 and 12, 1920

NOV 18, 1920
THE VIRGIN OF STAMBOUL

Continued from Page Three.

was incomplete, "Buddy" punting to Arkansas' 40-yard line. Arkansas thru line 3 yards. Time out for Arkansas. Punted out of bounds, Miners' ball on Arkansas' 40-yard line. "Buddy" passes, Arkansas intercepting on their 30-yard line. Arkansas thru line 2 yards. Thru line again for 2 yards. Arkansas fumbles, Miners recovering on Arkansas' 40-yard line. Pass incomplete. Arkansas intercepts pass on own 10-yard line. Arkansas thru line 3 yards. Punt to Kenning on Arkansas' 45-yard line. Pass intercepted by Arkansas on 35-yard line. Arkansas thru line 3 yards. Made first down on next play. No gain around end. Thru center 3 yards. Complete pass to Miners' 30-yard line. Off tackle 6 yards. Pass incomplete. Arkansas penalized. Pass incomplete. Punted to Miners' 10-yard line. Miners punt to Arkansas on Miners 45-yard line. 1 yard thru line. Made first down on next play. 2 yards thru tackle. Pass incomplete. Miners penalized. Arkansas made first down. Arkansas lost 2 yards thru tackle. Pass incomplete to Miners' 10-yard line. Quarter ends. Score still 7 to 0.

Arkansas Pushes Second Score Over in Final Period.

At the start of last quarter Watkins was substituted for Brandenburger, Coffey for Parkhurst, McBride for Owens, Squires for White, and Sanders for Zoller. Arkansas' ball. Made one yard on first play, making first down. Thru line 3 yards. Thru line for another 3 yards. Time out for Kenning. Thru center for first down on Miners' 1-yard line. Touchdown on next play. Arkansas, 14, Miners, 0.

Rolla received on 45-yard line, Arkansas having kicked from 20-yard line, due to pen-

alty. "Buddy" made 2 yards, Kenning 3 yards, and thru a fumble gave Arkansas the ball on 50-yard line. Arkansas lost 1 yard thru tackle. Sanders stopped end run. Kenning intercepted pass on Miners' 40-yard line. Squires lost 10 yards on an end run. Pass to Watkins incomplete. Miners punt, Gray stopping man on 50-yard line. Arkansas completes a 5-yard pass. Gain 1 yard thru center. Arkansas fumbles and Miners recover on own 45-yard line. Pass to McBride incomplete, but 20 yards gained on second attempt. Third pass to McBride incomplete. Pass blocked by Arkansas. "Buddy" around end for 7 yards. Punted to Arkansas' 20-yard line. Arkansas lost 1 yard, and was penalized 15 yards to the 3-yard line. Arkansas kicked, but ball was blocked and recovered by Miners behind goal. Miners offside, and score did not count. Time out, Bolt, and Miners penalized. Arkansas around end as game ended. Score 14 to 0.

Line-up:

Left end, Wilson.
Left tackle, Buck.
Left guard, Christner.
Center, Zoller.
Right guard, Parkhurst.
Right tackle, Bolt.
Right end, Gray.
Quarter, Cairns.
Fullback, Kenning.
Left half, Owens.
Right half, White.

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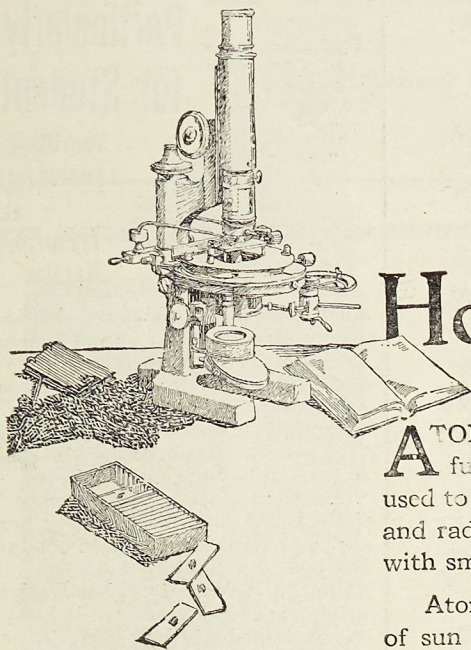
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How Large is an Atom?

ATOMS are so infinitesimal that to be seen under the most powerful microscope one hundred million must be grouped. The atom used to be the smallest indivisible unit of matter. When the X-Rays and radium were discovered physicists found that they were dealing with smaller things than atoms—with particles they call “electrons.”

Atoms are built up of electrons, just as the solar system is built up of sun and planets. Magnify the hydrogen atom, says Sir Oliver Lodge, to the size of a cathedral, and an electron, in comparison, will be no bigger than a bird-shot.

Not much substantial progress can be made in chemical and electrical industries unless the action of electrons is studied. For that reason the chemists and physicists in the Research Laboratories of the General Electric Company are as much concerned with the very constitution of matter as they are with the development of new inventions. They use the X-Ray tube as if it were a machine-gun; for by its means electrons are shot at targets in new ways so as to reveal more about the structure of matter.

As the result of such experiments, the X-Ray tube has been greatly improved and the vacuum tube, now so indispensable in radio communication, has been developed into a kind of trigger device for guiding electrons by radio waves.

Years may thus be spent in what seems to be merely a purely “theoretical” investigation. Yet nothing is so practical as a good theory. The whole structure of modern mechanical engineering is reared on Newton’s laws of gravitation and motion—theories stated in the form of immutable propositions.

In the past the theories that resulted from purely scientific research usually came from the university laboratories, whereupon the industries applied them. The Research Laboratories of the General Electric Company conceive it as part of their task to explore the unknown in the same spirit, even though there may be no immediate commercial goal in view. Sooner or later the world profits by such research in pure science. Wireless communication, for example, was accomplished largely as the result of Herz’s brilliant series of purely scientific experiments demonstrating the existence of wireless waves.

General Electric
General Office Company Schenectady, N. Y.

Continued from Page One.

the St. Louis U. game, were not taken on the Arkansas trip, and thus were given a week to round into form. Coach McCune states that the team as a whole is in excellent condition, every man being able to enter tomorrow's fracas if called upon.

Those who witness tomorrow's game will see one of the snappiest games of the season. We are determined to win, in fact, we must win, and to do so means that there must be eleven fighting men on the field at all times. Then—

M. S. M., we're with you,
We're for you good and strong,
And when it comes to winning,
Well, Warrensburg's in wrong.

WHO'S WHO.

"Bugs" Wheeler, a product of Iowa, is another student gone astray. He came to us from Cornell College (Iowa) with the reputation of being a gun, and lived up to it for one year, but alas, he has fallen from the straight and narrow path, and has acquired the habit of disappearing evenings without explanation. Be careful, "Bugs," these Rolla vamps are dangerous.

"Dicky" Stroup, brother of "Ducky," is convinced that some one is trying to blackmail him or is giving him first warning of dire disaster, for the other day he received a very picturesque catalogue of Sears & Roebuck's latest tombstones. We wonder what "Dicky" has done, but then you never can tell about these quiet guys. "Dicky" hasn't quite decided which one to get, but he thinks a Nepheline Syenite Porphyry with lots of Leucite and Sodalite would make a very appropriate headpiece.

Subscribe For The Miner.

NEXT A. A. E. MEETING WILL BE A SMOKER.

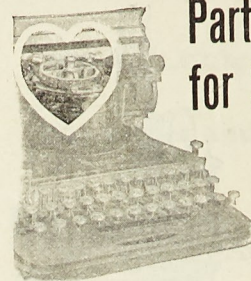
The program committee has arranged a smoker and a very interesting and instructive program for the regular November meeting of the A. A. E.

The membership drive has created a great deal of interest in the local chapter, and as a result the membership now exceeds the two hundred mark. Do you know how many members of the senior class are members of the A. A. E., or juniors and sophomores? The results of the drive will be real at the smoker.

The main feature of the evening will be an address by Mr. C. P. Calvert, on "Personal Salesmanship, or Selling Your Personal Services." Mr. Calvert, who was for many years resident engineer of Washington, D. C., has also had charge of many important government construction and reclamation projects throughout the West. He was also secretary and treasurer of the St. Louis Chapter of the A. A. E. The subject of selling your services is one of vital importance to all engineers, and every student should make it a point to be there. There will be music a plenty, violin solo by Linzer, and some real jazz band orchestra by the freshmen. There will also be some very important business brought up. With the great increase in membership this meeting should be a record breaker.

An article in the Tulsa World of November 3rd tells of Charles Copley, a tackle of the 1914 "Steam Roller." "Cop." is now captain of the Akron, Ohio, professional team. The article states that he formerly played with Missouri University—"a very gross error," we would say.

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