



03 Nov 1924

## The Missouri Miner, November 03, 1924

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# THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Vol. 11, No. 7.

Monday, November 3, 1924.

Price, 8 Cents.

## LOYOLA 6, MINERS 0

### SCHNEEBERGER-BAYSINGER NUPTIALS.

**Former President of Junior Class  
Marries Rolla Girl. Hearty Congrat-  
ulations Extended.**

Of unusual interest to students and friends of M. S. M. was the marriage on Thursday, October 30, of Miss Helen Baysinger, of Rolla, to Mr. Fred C. Schneeberger, a popular member of the Class of '25.

The happy event took place at the Rolla Presbyterian church, the Rev. E. W. Behner officiating. Among the invited guests, besides the parents and other relatives of the young couple, were the members of Lambda Chi Alpha and Kappa Alpha fraternities.

The bride, wearing a gown of white satin embroidered in pearls and crystal and a veil of tulle with orange blossoms, carried a beautiful bouquet of orchids and lilies of the valley. She was attended by her sister, Mrs. C. Y. Clayton, matron of honor, Miss Eleanor McRae, maid of honor, and the Misses Gladys Lorts and Margaret Moakley. Little Jean Campbell was flower girl and Master Charles Lee Clayton ring bearer.

Accompanying the bridegroom, who was dressed in the conventional black, were L. B. Hopkins, best man, and Messrs. M. L. Atkinson and C. J. Millar.

Mrs. W. D. Turner sang "All For You" and "The Birthday", accompanied by Miss Lillian Allen.

Following the wedding a reception was held at the home of the bride's parents, Dr. and Mrs. S. L. Baysinger. Miss Roberta Rowe and Mrs. A. L. Cairns sang and refreshments were served. The bride and groom were the recipients of many beautiful and costly gifts.

Mrs. Schneeberger is a popular Rolla girl, her father, Dr. S. L. Baysinger, being chairman of the executive committee of the Board of Curators of M. S. M. She attended Lindenwood College and is a member of Eta Upsilon Gamma sorority.

Continued on Page Seven.

### MO. MINING AND MET. ASSOCIATION TO HOLD OPEN MEETING WEDNESDAY.

The first program of the year to be given by the Missouri Mining and Metallurgical Association will be on Wednesday night at 7:30, in the lecture room of the Experiment Station Building. The principal speaker will be H. T. Mann, '05, who was connected with the Metallurgy Department from the time of his graduation until 1918, when he went to the Montana State School of Mines. During the last year he attended Massachusetts Institute of Technology, where he took post graduate work leading to the degree of Doctor of Science. Prof. Mann's experience in Montana, and his research work at Boston, have kept him well informed on the progress of metallurgy, and his lecture will be one well worth while to the students.

The program committee is working on the added attractions which will follow the program. All interested in mining or metallurgy are invited to attend, whether members of the Association or not.

### "CLARENCE" TICKETS ON SALE.

Tickets for "Clarence" are now being sold by members of the Booster Club and the M. S. M. Players. The price of fifty cents has received a hearty approval and all that now remains is to see how many tickets will be sold. Seats may be reserved Thursday noon at Harvey & Smiths. It has been decided that if six hundred tickets are sold, two performances will be given, the 7th and 8th. The play is coming in splendid shape and surely deserves your support and presence.

### QUIT YOUR KIDDING.

You will not kid yourself if you take in the big Junior kid dance on Monday, November 10, at Jacking Gym. Oodles of beautiful little giddies will bring their dollies along—sleepy dolls, mama dolls and dolls that walk. And the little boys will have their pockets full of candy. Prizes will be given for the most realistic costumes. Oh, boy! And oh, girl!

The Miners lost a tough battle to Loyola University in Chicago. The so-called Windy City lived up to its name, and both teams battled thru four periods in swirling clouds of dust that obscured the players, and made punting against the wind almost impossible.

The Miners upset the dope by holding the Loyola team to one touchdown, which was made after a fifty-yard run by Cronin. The Miners had the ball within Loyola's 20-yard chalk line three times, but lacked the final drive to chalk up a score. On one occasion a place kick failed from the 30-yard mark. A pass grounded over the goal line, with the ball on Loyola's 5-yard marker, and an unsuccessful line buck on the one-yard line spelled defeat for the Miners.

Lemon at half-back, and Captain Ledford at end, were the most consistent ground gainers for the Miners. Lemon was especially adept at hitting the line for gains, while Mike proved valuable at the receiving end of the Miners' aerial attack.

Lee shone by his repeated tackling of the Loyola backs before they could gain any yardage. Ledford also proved efficient at breaking thru interference on attempted end runs.

Cronin and Stuckney were Loyola's most valuable backfield men. Both were dependable at hitting the line and circling the ends.

### PLAY BY PLAY.

#### First Quarter.

Loyola won the toss, and elected to receive. McBride kicked the ball between the uprights, and the ball was put in play on Loyola's 20-yard line. Cronin hit the line for 12 yards. Rigney went around left end for a 5-yard gain. Stuckney 5 yards thru line. Rigney added 6 more yards. Lundgast 1 yard. Ball in midfield. Cronin smashed off tackle for 6 yards, and Stuckney added 6 more. Stuckney made 4 yards more for a first down. Rigney 6 yards. Lundgast added 2 yards. Stuckney pierced the line for 6 yards. Cronin failed on an attempted end run. Lundgast 3 yards. Pass to Lundgast netted Loyola a 12-yard gain. McBride went in to right guard, re-



placing Cammack, and Lee took up the fullback position. Rigney failed to gain thru the line. Lee threw Cronin for a 7-yard loss on an attempted run around Ledford's end. Two passes, Lundgast to Lamont, were incompletes, and Miners took ball on downs on 20-yard line.

Lemon hit the line for 3 yards and Thomas added two more on an end run. McBride's kick went out of bounds on Loyola's 23-yard line. Stuckney circled right end for an 18-yard gain. Cronin made 1 yard. Stuckney gained 5 yards on a line buck. Cronin's forward pass failed. Witry kicked to Lee on the 2-yard line. Lee gained 3 yards on a line smash, but a second attempt failed. McBride kicked out of bounds on Loyola's 75-yard line. Rigney fumbled and Miners recovered. Thomas broke through the line for 15 yards. Fisher added 6 yards on another line plunge. Lemon failed to gain on a trick play. Lemon gained 3 yards. Ball on Loyola's 38-yard line. Lee smashed off tackle for 3 yards and first down. Thomas 3 yards. Lee added 3 more. Lemon pierced the line for 6 yards and first down.

#### Second Quarter.

Lee made 2 yards, and Fisher added 5 more. Lemon 1 yard. Lemon fails to gain on two line plunges. Loyola's ball on downs on their 10-yard line. Loyola kicked to Miners' 30-yard line, and Lee ran ball back 5 yards. Thomas 1 yard around end. Thomas passed to Ledford for 15 yards, but Miners were offside. Lemon hit line for 10 yards, but was called back, and Miners penalized 15 yards for holding. Lee 1 yard. Pass Lee to Ledford, failed. McBride's kick carried out of bounds on Loyola's 40-yard line. Cronin pierced the line for 6 yards. Stuckney 3 yards. Cronin broke thru the line for a 50-yard run and a touchdown. Lundgast failed on try for extra point. Score: Loyola 6, Miners 0.

McBride kicked off to Loyola's 15-yard line. Cronin circled end and brought ball to 20-yard line. Adams smashed line for 12 yards. Lundgast failed to gain. Buck tackled Cronin, who fumbled, and Lemon recovered on Loyola's 35-yard line. Pass, Lee to Allenbach, netted 4 yards. Lemon bucked the line for 4 yards. Lee made 2 yards and first down. Fisher 1 yard. Lemon failed on an end run. Ball on Loyola's 25-yard line. McBride's place kick failed. Loyola's ball on 20-yard line. Loyola offside. Cronin fails to gain on end run. Adams 2 yards. Cronin fails to gain

Miners' ball on downs. Lee gains 2 yards thru line. Two passes incomplete. Pass 15 yards to Fisher incomplete, but allowed because of interference with receiver. Lee 2 yards, and Lemon 1 yard on line bucks. Lee's to Allenbach incomplete. Ball on Loyola's 5-yard line. Attempted pass across goal line, Lee to Ledford, failed. Loyola's ball on 20-yard line. Stuckney made 6 yards on line smash. Cronin pierced line for 12 yards.

#### Third Quarter.

McBride kicked off, but Miners were penalized 5 yards for offside. Second kick-off out of bounds. Ball put in play on Loyola's 40-yard line. Cronin 5 yards thru line. Rigney made 7 yards more. Stuckney failed to gain, but Miners were offside. Cronin hit the line for 4 yards. Cronin failed on attempted end run. Rigney smashed thru for 6 yards on a trick play. Stuckney circled end for 10 yards. Ball on Miners' 20-yard line. Rigney hit the line for 2 yards, but Stuckney failed to gain. Loyola penalized 15 yards for roughness. Fisher intercepted pass and ran it back 15 yards. Fisher pierced line for 4 yards. Lemon made 2 yards, and added 8 more on a fake kick. Thomas made 4 yards on line plunge, and Lee added 2 more on an off tackle plunge. Lemon hit line for 8 yards and first down. Thomas failed to gain. Pass to Allenbach netted 3 yards. Fisher 1 yard. Pass to Ledford gained 2 yards. Fisher 2 yards. Lemon failed to gain. Loyola's ball on downs. Loyola punted to Miners' 15-yard line. Lemon 3 yards. Fisher made 2 yards hitting line, and McBride added 3 more on end run. McBride kicked to Loyola's 45-yard line. Cronin failed to gain. Loyola kicked to Miners' 25-yard line, and Thomas returned ball 10 yards.

#### Fourth Quarter.

Hasselman substituting for Fisher made 2 yards thru line. McBride punted to Loyola's 45-yard line, and Stuckney returned ball 10 yards. Cronin hit line for 10 yards. Loyola penalized 15 yards for holding, and an additional 15 yards for arguing. Ball on Loyola's 35-yard line. Witry punted to Miners' 45-yard line. Hasselman 2 yards. Miners offside. Lemon hit the line for 5 yards. Thomas broke through the line for an 8-yard gain. Lee 2 yards. McBride's punt went over the goal line. Loyola's ball on 20-yard line. Pass by Lundgast incomplete. Adams failed to gain on an end run. Miners offside. Cronin pierced the line for 13 yards. Stuckney failed to gain. Loyola offside. Cronin hit line for 10 yards.

Adams 1 yard. Adams 2 yards. Loyola offside. Ball on Miners' 40-yard line. Adams circled end for 8 yards, but Loyola was again offside. Cronin failed to gain. Pass by Stuckney was grounded. Another pass, by Adams, met the same fate. Witry's kick blocked, but Loyola recovered. Loyola fumbled, and Miners recovered. Pass, McBride to Ledford, netted 10 yards. Another pass failed. Ball on Miners' 40-yard line. Two passes, McBride to Ledford, were grounded. McBride punted to Loyola's 20-yard line, and Lundgast returned ball 5 yards. Cronin broke thru line for 12 yards. Stuckney circled left end for 10 yards. Loyola offside. Stuckney hit line for 9 yards. Adams 4 yards. Game ended with ball on Miners' 45-yard line.

#### Line-up:

Miners (0)	Loyola (6)
Allenbach.....l e.....	Lamont
Buck.....l t.....	Gruerwald
Johnson.....l g.....	Devlin
Young.....c.....	Murphy
Cammack.....r g.....	Flynn
Gladden.....r t.....	Flynn
Ledford.....r e.....	Bush
Thomas.....q b.....	Lundgast
Lemon.....l h.....	Cronin
Fisher.....r h.....	Stuckney
Lee.....f b.....	Rigney

Substitutions: Miners: Berry, Hasselman, Heinrich, Modaff. Loyola: Berweik, Adams, Witry, Gruerwald.



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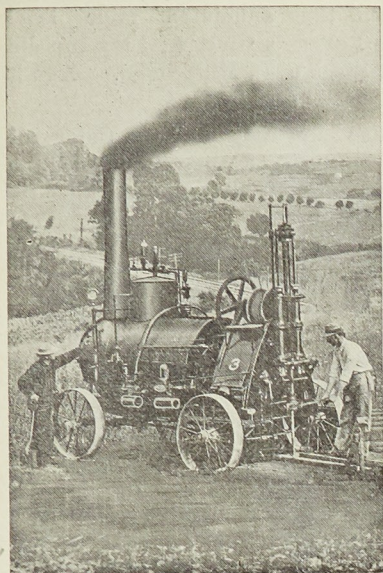
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Editor's Note:—The following letter is deemed of enough importance to warrant its publication, if for no other reason than to give those who wish it, the address of our old friend and partner in crime, D. F. Walsh, better known as "Dave," or "Schultz." (the latter denoting Scandihocvian.) We know that most of the fellows remember "Dave," and that not a few are pondering his absence from the campus this fall, since he had become a landmark or guide post for most underclassmen. "Dave," as will be noted, is in France, having accepted a Fellowship in the University of Nancy.

The summer was long and drawn out for Dave. He spent most of it trying to leave Rolla. He made several attempts, but like a wandering dog would turn up in Rolla every week or so—for a brace. Any how, he did get away at the very last, and as was expected, failed to come around and say "adieu." That he is enjoying himself is unquestioned, but that he would appreciate news from Rolla goes without saying. We will let his letter speak for itself, as to his thoughts, habits, conduct and wanderings in Sunly France:

Nancy, France, Oct. 11, 1924.

It's a long story! You and Bugs should get together when reading this, so that Bugs can support you when you feint (please pardon my poor spelling, for in my attempt to learn this lingo (French), I have most forgotten how to spell English.)

I arrived safe and sound. Had one grand time in Paris (one week.) Blew into this burg (population 150,000) Oct. 1st. University here looks darn good to me. The Ecole de Met. Supérieure is really a graduate school—the graduates receive a profession-

al (issued by the Government) license in Engineering, Met. or Mines as the case may be. Believe me, culls, I'm having one h— of a time "parley-voing" the lingo. The first four days that I was here it was exceedingly cold—that damp cold that penetrates. Well, I suffered a frost-bitten hand from talking, I guess! Oi yoi, ge valdt! Have a dandy room, trick wash stand that folds up into the wall like a "Murphy bed," and a bed 5 feet high—I use a chair to stand on when I retire. Gosh, but it's soft—the bed, I mean. Everything setting "jake." If only the weather remains fair, as it has for the past 3 days, and if only I can manage to understand them (the people) when they talk. Yea gods, how they do spit it out, then all will be fine.

Tomorrow, Sunday, if the day is clear, I'm going bicycling into the neighboring country.

As regards prices, with our American dollar at such a high rate of exchange, most everything is very cheap. Get this, Bill! Superfin Porto Vasco (from Italy) 80c per quart, Rhum "Niger Head" \$1.10 per quart, Bordeaux Pondulare (a good red wine) 25c per quart, Lorraine Beer from Maxeville at 2½c per big schooner. Oh! It's a great temptation. For the French, however, these prices are high—a little more than double. This is on account of the low economic value of the franc—about 11c—so beer to them costs 6c per glass. So much for that!

Now, snap into it, old man, and send me some news of Rolla, etc. What are you and Bugs working on now? Mail me some late pamphlets if you run out of news to write me. Versteten sie das. Yah vo! Re-

gards to Mr. O'Harra.

Best wishes, Bill and Bugs,  
Auf wieder sehen,  
SCHULTZ

DAVE.

#### JUNIOR CLASS COMMITTEES.

##### Interior Decoration.

Crawford, chairman; Moulder, Herder, White, Whiteman, Hershkowitz.

##### Exterior Decoration.

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##### Parade.

Cammack, chairman; Koch, Jones, Moore, Anderson.

##### Formal Dance.

Ashlock, chairman; Birchard, and Short.

##### St. Pat's Dance.

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**THE MISSOURI MINER.**

The Official Publication of the  
M. S. M. Alumni Association.

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\$1.50 per year; Foreign, \$2.00. Single  
Copy, 8 cents.

**Issued Every Monday.****PARABLE OF THE POOR FROSH.**

Now it so happened that in the Fall of the Year I was seized with a Great Desire to attend a real, Honest-to-Goodness College.

And from afar off, yea, even from the land of sunshine and Good Climate I did hear the name, M. S. M. And I did inquire of a friend, saying, Who is Director of This Great School?

And he answered and said, Fulton.

And I spake again, saying, He is a Good Man, but I think Dempsey can Whip Him.

Nevertheless, I did undertake a Three Day's Journey. And I did enter the city on the Frisco. And verily mine education did begin P. D. Q.

For I turned my face westward toward the Baltimore Hotel. And I beheld the form of one called a Senior. And on his lip was a Befeathered Sign of Much Knowledge and Wisdom. And on his arm was the Frail Form of a Frivolous Female.

And I staggered beneath by load of Three Heavy Suitcases. And My Knees did wobble.

But the Senior, seeing me, said,

Here, Frosh, carry my coat. And he did throw it upon me. And my knees did wobble Even More. And I fell. Even then did the sound of Broken Glass reach mine ears. For I had broken the jar of Strawberry Preserves brought all the way from Tia Juana. And verily my High School Pennant was ruined.

Not many days thence was I Rude-ly Awakened from Mine Home-sickness. For a certain class, called Sophomores, did paste the town with Vile Posters. And me and my Fellow Suffers they did Call Names. And they did rail at us. And they did say all manner of evil against us. And they did lay down the law to the Frosh for to Observe.

Now on the Morrow came the day of the Big Fight. And a multitude did gather. And they did come from the Highways and Byways of Rolla. Some came from the country round about. And some came from Afar Off.

And the Sophomores did win the fight. For had they not been in training for an Whole Year as Freshmen?

Then, as was their custom, a Circus was held. And I did march in the Parade. For they did paint my legs a Wondrous Green. And my face did they blacken, yea, like the Ethiopian himself.

And we did reach Jackling Field. And to a Fair Damsel of the multitude I did make Proposal of Marriage. But she accepted me not.

And they did bedaub mine hair with Soot, Syrup and Egg. And my grief was complete. Yea, my sufferings were intense, even unto the Point of Exhaustion.

Not many days hence in Parker Hall a Great Gathering was held called Mass Meeting. But I did Cut. And my absence was Keenly Appreciated. For they did wrinkle me with a Fuller Brush. And it was a Stiff Brush. And they did Bathe Me in Frisco Pond.

Thenceforth was I compelled to wear a Green Cap and Suspenders, yea, Galluses like Granddad Used to Wear. But my suspenders were All the Berries—Razz-berries. For my pants did they Not Hold Up.

And it came about in This Manner. There is a Sophomore Law, saying, Thou Shalt wear no Khaki, neither shalt thou adorn thyself with Mole-skin. But the meaning thereof I did Misconstrue.

And I did venture forth Capless and in Khaki Pants. But I fared Not Well. For I was surrounded and attacked with Much Gusto.

And they annointed mine head with LePage's Glue. And my cap did they place upon Mine Head. And it did Stick.

Also did they note the Color of My Pants. And they continued the attack, and did Strip Me, sending me Lome Half Naked. And the girls did laugh. And women and children stared. For it is not customary to behold a man in his B. V. D.'s.

Many other things have I endured. Often are the Frosh grieved Unto Death. But suffice it to say, Verily the Way of the Freshman is Hard.

**NOTICE JUNIORS!**

A Junior Class meeting will be held in Norwood Hall at 7 p. m., Wednesday. There were only thirteen Juniors absent at the last meeting. Let's have a perfect attendance this time. Watch bulletin board.

**SHOTGUN NEWS.**

Would you give four bits for a good automatic shotgun? Well, that's the price for a chance on the five excellent guns the Junior class is raffling off. These guns are all new, the very best obtainable, and range in price from \$65 down to \$17. Just think of it! A chance on all five guns for fifty cents! See any Junior for further details.

**SID WHITING ROLLAMO****PHOTOGRAPHER.**

The Rollamo Board secured enough orders for one dozen photographs to get Sid Whiting, of St. Louis, to come to Rolla and take the pictures for the Rollamo. The pictures will be taken about November 13 and those who order prints, will have then in ample time for Christmas.

**DROPPING COURSES.**

Attention is called to the rule which provides that students who drop courses after the middle of the semester will receive final grades of F.

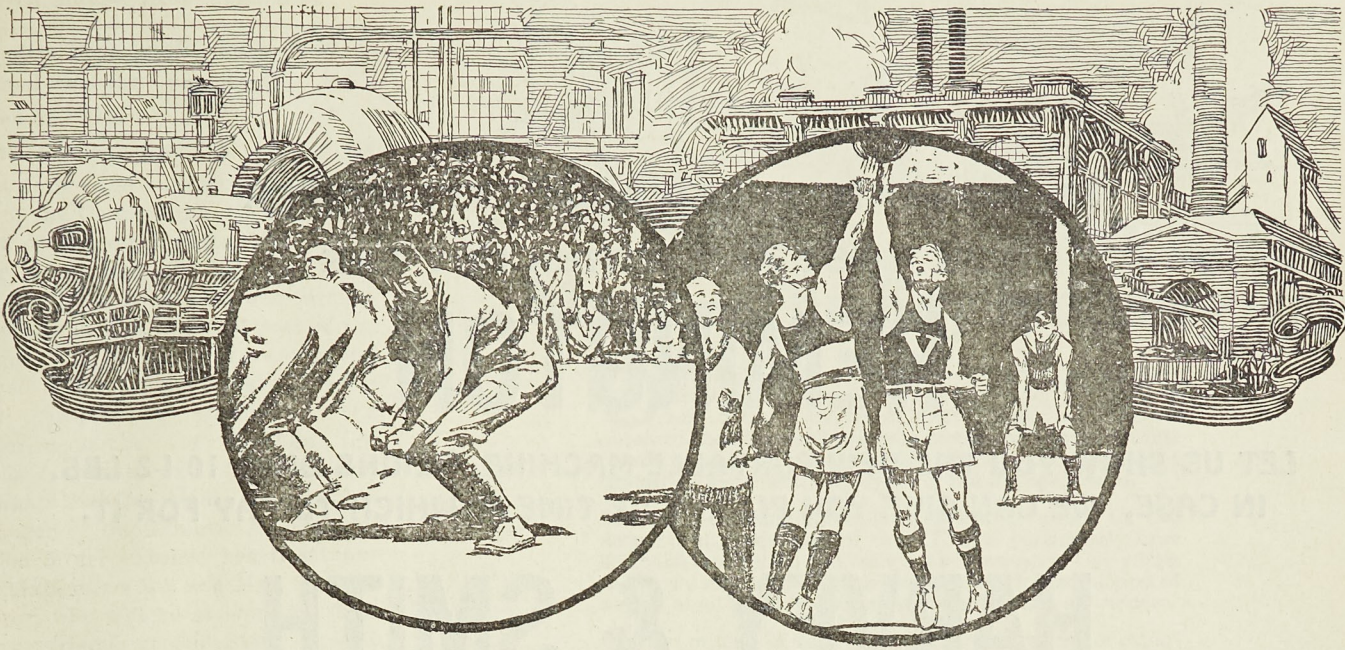
November 15 will mark the end of the ninth week of school, and hence the middle of the semester.

A course is not dropped until the written approval of the instructor concerned is ON FILE IN THE REGISTRAR'S OFFICE.

Any student wishing to drop a course without a final F must secure a "Change Schedule" blank from the Registrar, have it approved by the proper persons, and RETURN IT TO THE REGISTRAR BEFORE NOON OF SATURDAY, NOVEMBER 15th.

H. H. ARMSBY,  
Registrar.





## Centers and Quarterbacks

A GOOD basketball center or football quarterback knows more than the resources of his team. He knows what resources to call upon at decisive moments. To him, the condition of his opponents, their weight and style of play, the time left to go—all dictate a strategy, which he follows.

There is in industry a group of engineers whose position resembles that of field general. They keep their eyes continuously upon all fields of human activity. They observe how each is affected by changing economic situations. They calculate what demands the future will make upon each. Then they bring to its aid new discoveries and beneficial methods.

In 1886, George Westinghouse saw that industrial growth could not be furthered by direct current alone. The "game" required a new style of play. So when the rudiments of a transformer came along—

opening the way for alternating current, Westinghouse adopted both, perfected them, and paved the way for the electrical era of the present time.

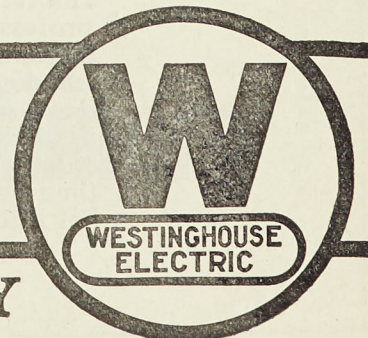
In an organization like Westinghouse, these "quarterbacks of industry" are called "application engineers". They are mechanical and electrical engineers who apply the forces of electricity to every variety of human need.

Westinghouse application engineers first applied motors to the steel industry, the textile industry, the automobile industry. They introduced electricity to railroads and ships. They developed it for heating purposes.

Application engineers are needed in industry—they fill an important and expanding place. Westinghouse service to industry starts with their efforts.

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For information address

THE REGISTRAR, Rolla, Mo.



## Continued from Page One.

She also took special work at M. S. M. and was the popular St. Pat's queen of 1915.

Mr. Schneeberger is one of the most active and enthusiastic supporters of the Class of '25. He was president of the class during his Junior year and was at the same time editor of The Miner. He was formerly commander of the local post of the Veterans of Foreign Wars, having served in the army overseas. Fred is now contributing editor of The Miner, a member of Lambda Chi Alpha fraternity and of Square and Compass and Quo Vadis clubs, and is manager of the Athletic Association.

The Miner extends heartiest congratulations to Mr. and Mrs. Schneeberger, who will be at home to their many friends at 505 State street, Kolla, upon returning from Chicago where they have gone on their wedding trip.

## KAPPA SIGMA DANCE.

Beta Chi of Kappa Sigma entertained fifty couples at their annual Hallowe'en Dance Saturday evening at the Chapter House. The atmosphere of Hallowe'en lent its charm to one of the most enjoyable occasions of the season.

Guests of honor were Mr. and Mrs. J. G. Campbell, Mr. and Mrs. F. E. Taylor, Mr. and Mrs. E. J. Campbell, and Mrs. Emily Diehl.

The out-of-town guests were Misses Lydia Jones, Mary Redford, Marjorie Beckwith, Martha Riske, Billie Brett, Elizabeth Thatcher, Ruth Cameron, Helen Funk, and Valerie Forrester.

## MINERS AT HOME THIS WEEK.

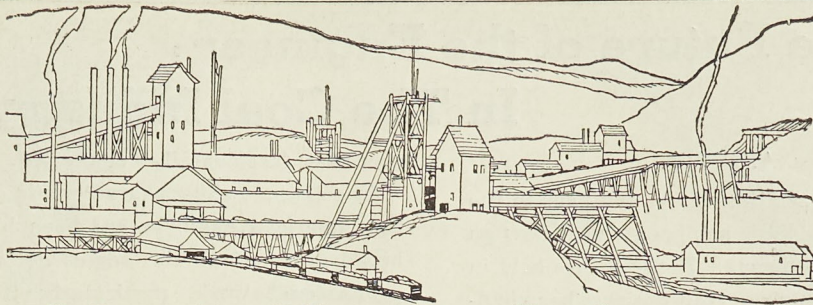
On Saturday, November 7th, the Miners will play their first game at home since October 3, when McKendree was subdued. Rose Polytechnic Institute, of Terre Haute, Indiana, will be the Miners' opponents.

Little is known of the strength of Rose Poly, except that they were forced to bow to Purdue University by a score of 44 to 3, and also to Indiana University 67 to 0.

The Miners, however, are prepared for a hard battle, and their followers will be out in force to see them in action again.

Joe H. Reid, of the Class of '25, is with the Ray Consolidated Copper Co., at Hurley, New Mexico.

H. W. Zieseniss is now located at 916 Clinton St., Ottawa, Ill.



## Metal—The Key Industry

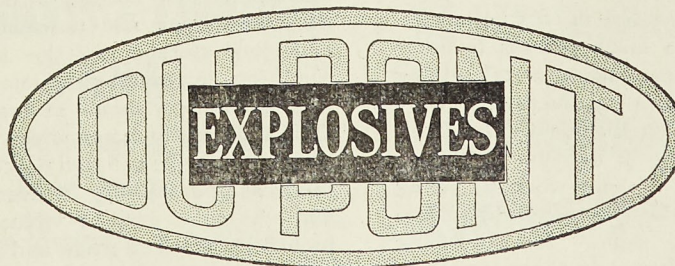
ONE of the oldest industries is the mining of ore. Prehistoric man mined iron and copper for his weapons and utensils by hand labor. Later civilizations obtained their base and precious metals in almost the same primitive way. It is only within more recent times that explosives have been employed for mining operations.

Modern metal mining requires explosive power for the economical production of ore. This is particularly true since the fabrication of metals is a key industry. Our whole industrial structure depends largely upon the production of metals of all kinds in enormous quantities and at low cost.

For the mining of various kinds of ore, a variety of explosives are required because of the kind of ore, its formation, and the conditions surrounding the operations. Large and economic ore production is dependent largely upon the selection and use of an explosive especially adapted to the type of ore desired. In the development and manufacture of explosives for the mining industry the du Pont Company has been eminently successful in producing a wide and efficient variety of explosives. For example—gelatin dynamites of 25% to 100% strength for different ores and where water is encountered; an ammonia dynamite has proved to be most efficient and economical in comparatively dry mines; and in the "open pit" mines a "low" powder or Judson type of dynamite has been used extensively and satisfactorily.

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## The Future of the Engineer In The Coal Industry

By Thos. A. Stroup.

The relation of the engineer to the coal industry has been and is now an anomalous one. If the future held in store no more than the past has yielded the young engineer would be thoroughly justified in turning away from the industry when seeking a field for his efforts. However, all signs point to the fact that the vast and ponderous business of mining and distributing coal, second in importance only to agriculture among the nation's industries, is now moving slowly but surely toward engineering methods of organization and management.

Not that the engineer need to be ashamed of his rather humble past in the collieries. He has done creditable work in the limited fields of purely technical endeavor that have been open to him. The ventilating, hoisting and pumping plants of modern coal mines are unsurpassed examples of the engineers' skill, so also are the superb top works, screening plants, and washeries seen thruout the mining districts. His work in mine layouts and development systems has been hampered by the requirements of an inflexible and poorly adaptable labor system, and by mine officials not usually in sympathy with engineering ideals, and in this work he has always been subordinated and forced to conform to the unscientific organization of the industry.

In the actual business of operating the mines the engineer simply has not been wanted, the methods of organization and production that he has applied with so much success to other industries, particularly metal mining and automotive manufacturing, were held to be inapplicable to coal mining. Why, it is difficult to understand. About the only work the young engineer could find around the mines was "setting sights" for advancing work and keeping up the maps. Even here his services were not always appreciated or even considered essential; for what engineer schooled in the coal mines but can recall the old time mine foreman or fire boss who would stoutly maintain that he could "by eye" keep the places in better shape, drive connections, turn rooms at certain angles, etc., much better than the surveyor could with his transit. The numerous times that entries intersected or pillars became too thick were overlooked in the flood of self-satisfaction that followed a connec-

tion that (accidentally) connected.

The distinguishing characteristic of the American engineer has been his broad grasp of all the angles of his professional work, particularly the economic one. Thus he has never been content to be a mere narrow technician, but has demanded the right to apply his knowledge to operating, managing and even the financing of enterprises, and from this has arisen his cool reception in the coal industry, which has stoutly resisted the adoption of the type of organization so effective in other lines. But everything points to an early change and the consequent calling into the coal mines of many thousand engineers, who will be engineers in the broadest sense of the term.

This change is being forced by several factors; most important of which is the keen competition which has thoroughly disorganized the industry and necessitated a change in methods to enable the mining firms to survive. A second factor is the introduction of mechanical loading at the face. Loading machines do not well fit into the old mine labor management system, and to use machines effectively a changed labor system in line with the modern factory or mass production methods is absolutely necessary. Again the pressure for safer mining is calling for technical skill of a high grade.

All things considered therefore, the outlook for the engineer in the coal industry is very bright. Freed from its cumbersome and unwieldy wage and labor systems and the inflexible conditions imposed by the miners' union, the industry should of itself eliminate the grossly incompetent and the hopelessly inefficient who now hamper progress and stability at every turn, and who exist only by virtue of the industry's peculiar wage and production systems, and in this great work the engineer will play a leading part just as he has in other fields of productive effort. Once on its feet, the movement toward units of great size closely coordinated with other basic industries may be looked for, giving vast scope to engineering genius, and the engineer who is fully prepared to grasp his opportunities will be richly rewarded.

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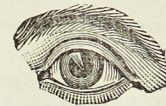
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**R. O. T. C. DANCE.**

The members of the advanced corps of the R. O. T. C. will have a dance at the Kappa Alpha house on the evening of November 22. It will be a strictly military dance, and everybody will be in uniform. The music will be furnished by the Varsity orchestra.

**ALUMNI.**

BORN, October 5th, 1924, Miles Ancil and Kneeland Benham sons of Mr. and Mrs. Willard Miles Benham. Mr. Benham received a B. S. from M. S. M. in '15, and is at present with the American Smelting and Refining Co., Santa Eulalia, Chihuahua, Mexico. Says he is going to make Miners out of the twins. A nice pair of guards for the squal about '44.

The Miner regrets to announce the death of Otto L. Weissgerber, which occurred June 7th, 1924. Mr. Weissgerber was born July 28th, 1874. Attended the Missouri School of Mines 1892-95, and was an engineer on the levy works at Bud's Point, La. Was married to Miss Pell M. Johnson, daughter of Dr. R. L. Johnson, May 27th, 1896. Was manager of the Laclede Lead and Zinc Company 1913 and 1919. Organized the First National Bank of Lebanon, Missouri, of which he was president until his death.

Virgil Sittle, of the Class of '25, is with the Muskogee Light and Power Co., of Muskogee, Okla., where he is employed in the capacity of assistant efficiency expert.

Harvey E. Smith, B. S. '10, is now in Rolla. He is returning to his home in Santa Anna, Calif., from a tour of the Illinois coal fields.

H. H. (Bus) Hughes, Jr., '22, is now mine foreman, Cia Minera de Penoles, S. A., Higuera, Coahuila, Mexico.

James H. Bock, '17, is now doing construction work in Clear Water, Fla.

Wm. McQuilliam, B. S. '21, geologist for the Gulf Production Company, with headquarters in Houston, Texas. His address is 1007 Bell St., Houston, Texas.

K. M. Bowman, '22, now has a position as structural draftsman with the City of Los Angeles. His present address is 801 Beacon Ave., Los Angeles, Calif.

J. Lewis Andrews, '24, reports that he has a fine 8½ lb. boy, J. L. Jr., at his home, and is going to make a Miner of him.

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