



01 Dec 1924

The Missouri Miner, December 01, 1924

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Vol. 11, No. 10.

Monday, December 1, 1924

Price, 8 Cents.

SPRINGFIELD TEACHERS 13, MINERS 10

DR. WOODMAN TO HEAD GENERAL SCIENCE DEPARTMENT.

Prof. Frame in Charge of Electrical Engineering.

The leaving of Dr. F. W. Shaw left a vacancy in the General Science Department which the Executive Committee of the Board of Curators combined with the Physics Department and placed Dr. E. L. Woodman in charge. The Department of Physics and Electrical Engineering has been divided into two departments, the Department of Physics and the Department of Electrical Engineering of which Prof. F. H. Frame is in charge.

The separation of the Physics and Electrical Engineering Department into two departments is a step which has been expected for some time, and the selection of Prof. Frame as the head of the Electrical Engineering Department is only logical. Placing the General Science courses under Dr. Woodman is a wise move and one that should meet the approval of everyone.

— M S M —

BIG SPORTING TREAT IN STORE.

Southeast Missouri Fans to Meet in Rolla to Witness Matches Between Champion Wrestlers and Boxers.

The first big indoor sporting event of the season will take place in Rolla next Saturday, December 6, at Jackling gym. This will undoubtedly be one of the best wrestling and boxing exhibitions ever pulled off in Rolla, for only men of championship reputation will participate.

The main bout in the wrestling part of the program will be between Young Zbyszko, middle-weight champion of Europe, and Billy Colline, former army and navy champion. An opportunity to witness such a match as this is not at all frequent, and this bout alone should fill Jackling gym to the doors. The wrestling preliminaries include matches between the well known local men, Schramm and Craig in the 145-pound class, and

Continued on Page Three.

MINER DANCE DECEMBER 5th.

Just a little reminder that the Miner Board will entertain with a big dance in Jackling Gym. December 5th, at the usual admission price of one buck. Be there and tell your room mate to be there too. This is to be the last Miner Board struggle until after the holidays so don't fail to take in this one. Music to be furnished by the Varsity orchestra.

— M S M —

BASKETBALL SERIES BEGINS WEDNESDAY.

The intra-mural basketball championship will receive its initial impetus on Wednesday when two games will be played. The captains of the teams are requested to attend a short meeting Tuesday afternoon at Coach Dennie's office to select their position on the schedule.

This year there will be a consolation series for the losers of each game, which makes it possible for a team to win the series if only one game is lost. A team losing two games is out of the running.

The games will be played two each day on alternate days with the losers playing on the day in between. The number of games to determine the winner in the play-off will be fixed according to the remaining time before the Christmas holidays.

— M S M —

FROSH-SOPH FOOTBALL FRACAS

Now that the final game of the football schedule is past history the students are looking forward to the annual battle between the sophomores and the freshmen. As yet no date has been set and as there are only a few remaining days before the Christmas holidays, December 6 has been suggested as a suitable date.

It is, therefore, the duty of the two classes involved to come to an agreement about the game and date. This game has become a tradition and it is hoped that it will not be discontinued this year if the teams have to drag out snowshoes instead of leather cleats. This scrap has always been a clean, hard-fought engagement and it is a thermometer of class spirit, win or lose.

Playing before a large homecoming crowd that packed the Teachers College stadium in Springfield to capacity, the Southwest Teachers College defeated the Miners, 13 to 10, in the hardest fought contest that has ever been seen in Springfield. It was the Bears' first victory over a Miner aggregation since the two schools began athletic relations on the gridiron. It was a different Miner eleven than the one which overwhelmed the Drury aggregation the previous week. They lacked the fight which enabled them to overwhelm the Panthers, and the final punch, which should have scored several more touchdowns for them, was lacking. Statistics on the game show that the Miners clearly outplayed their opponents, but the abundance of fight which the Bears possessed carried them on to victory. The Miners wasted several golden opportunities to score when they lacked the punch to carry the oval across after advancing it within the 5-yard line. On one occasion the Miners carried the ball from their own 20-yard line to within several feet of their opponents' goal, only to lose the ball on downs.

The Bears scored early in the first quarter, when Reynaud broke thru the center of the line for 50 yards and a touchdown. The Miners counted soon after when Couch recovered a fumbled punt on the Bears' 5-yard line, and Lee smashed over on the next play for a touchdown. McBride kicked goal. The Miners scored their remaining three points in the second quarter, when McBride made a placement kick from the 20-yard line. One of his attempts at placement earlier in the game appeared good, but the referee ruled otherwise.

The Bears scored again in the final quarter, when they completed a 20-yard pass over Thomas' head that was good for a touchdown.

Lee and Hasselman were the outstanding stars of the Miners' backfield. Hasselman gained almost at will on his smashing off-tackle plays, while Lee hit the line for considerable gains. Captain Ledford and G. Johnson stood the brunt of the attack on the line. Ledford's spectacular nobbing of forward passes was a revelation.

tion to the spectators, and time and again he brought them to their feet with a wonderful catch. G. Johnson was a tower of strength on the defense, permitting very few gains thru his positions.

For the Bears the work of Reynaud and Hildebrandt was outstanding.

FIRST QUARTER.

McBride's kick-off was returned to the 15-yard line. Thorn failed to gain around end. Austin made 9 yards thru center. Reynaud circled end for first down. Lee stopped a line buck. Thorn swept around end for 10 yards, and Reynaud repeated for 9 yards. Reynaud broke the center of the line and ran 50 yards for a touchdown. Teachers failed to kick goal. Teachers 6, Miners 0.

McBride's kick-off went over the goal line, and the ball was put in play on the 20-yard line. Two line bucks failed to gain, and the Teachers were penalized 15 yards. Austin was stopped by G. Johnson after a 3-yard gain. They then punted out of bounds in mid-field. Tucker failed to gain off tackle, and Lee was stopped on a line buck. After a pass was incomplete McBride punted. The punt was fumbled, and Couch recovered for the Miners on the Teachers' 5-yard line. Lee smashed over for a touchdown. McBride kicked goal. Miners 7, Teachers 6.

The Teachers kicked off to Tucker, who was downed on his 25-yard line. Berry made 1 yard around end, and Lee hit the line for 4 yards. Lee passed to Ledford for 10 yards. Thomas circled end for 6 yards. Lee added 3 yards thru the line. Tucker made first down off tackle. After Berry and Thomas had made 4 yards Ledford made a wonderful catch of a 30-yard pass from Tucker, and put the ball on the Teachers' 15-yard line. Tucker lost 2 yards. Thomas gained 3 yards off tackle, and Lee added 1 yard more. McBride's placement kick looked good, but the officials ruled otherwise. Three line bucks netted first down for the Teachers, and Thorn hit the center of the line for another first down. G. Johnson stopped an end run. After two line smashes had netted but 4 yards, the Teachers punted to Thomas on his 20-yard line.

SECOND QUARTER.

Hasselman replaces Tucker. Hasselman fumbled, but recovered for a 3-yard loss. McBride punted, but the Teachers were penalized 5 yards for offside. Miners' ball with first down Berry hit the line for 1 yard, and on the next play he passed to Ledford for 10 yards. Thomas drove off tackle for 4 yards, and then hit the line

for 7 yards. Hasselman smashed off tackle for 10 yards, but the Miners were penalized 5 yards. Lee passed to Ledford for 6 yards. Hasselman made 7 yards off tackle, and Thomas repeated for 7 yards more. Lee hit the line for 7 yards. Hasselman gained 8 yards off tackle, and Thomas added 4 yards more. Hasselman hit the line for 5 yards. Lee and Hasselman failed to gain, and a pass was incomplete. Bears offside, giving the Miners the ball with first down on the Teachers' 5-yard line. Hasselman failed around end. Lemon replaces Thomas. Hasselman failed to gain. Hasselman made 3 yards off tackle, and Lee failed to go over by inches. The Teachers punted to their 25-yard line. Hasselman made 2 yards, and Lee passed to Ledford for 4 yards. Lemon circled end for 5 yards. Hasselman failed to gain, and a pass was incomplete. Hasselman lost 2 yards. McBride's placement kick from the 20-yard line was good. Miners 10, Teachers 6.

The Bears kicked off to Berry on his 20-yard line. Modaff replaces Lemon. Lee the line for 2 yards.

THIRD QUARTER.

Heinrich replaces Gladden. The Bears kicked off to the 20-yard line. Lee failed to gain, and the Miners were penalized 15 yards. McBride's punt was returned to the Miners' 25-yard line. Three line bucks netted 6 yards, and G. Johnson threw Henderson for a 6-yard loss, the Bears losing the ball on downs. Hasselman circled end for 11 yards, and Lemon added 2 yards off tackle. Lee failed, and the Miners were penalized 5 yards on the play. A pass was incomplete, and the Teachers were penalized. Hasselman lost 1 yard, and Lemon failed to gain. The Bears intercepted Lee's pass in mid-field. Hasselman injured, and Thomas replaced him. Thorn hit the line for 7 yards. Thomas spilled Reynaud after an 8-yard gain. Two line bucks netted 7 yards, and Thorn circled end for first down on Miners' 20-yard line. Reynaud smashed off tackle for 4 yards, and a line buck added 3 yards more. Lemon stopped an end run for no gain. A line buck failed to gain, and the ball went to the Miners on downs. After Lemon failed to gain, McBride punted to the Miners' 45-yard line. Three end runs netted 12 yards, and Reynaud smashed off tackle for 5 yards. G. Johnson stopped a line smash. Austin hit the line for 6 yards.

FOURTH QUARTER.

Hodgson replaces Young. An end run lost 1 yard, and Hodgson stopped a line buck thru center. Austin made

2 yards off tackle. Reynaud passed to Hildebrandt for a touchdown. The Bears also made the extra point after touchdown. Teachers 13, Miners 10.

The Bears kicked off to Lemon, who was downed on his 25-yard line. Lee lost 1 yard, and Lemon failed to gain. The Bears intercepted a Miners' pass in mid-field, and returned it to the Miners' 20-yard line. A line buck failed, and a center smash netted 3 yards. Austin made 3 yards off tackle. A pass over the goal line was incomplete, and the ball went to the Miners on their 20-yard line. Tucker replaced Thomas. Three passes were incomplete. McBride punted, the ball going straight up. It was the Teachers' ball on the Miners' 20-yard line. Cassidy replaces R. Johnson. An attempted end run lost 3 yards, and Austin went thru center for 2 yards. A pass over the goal line was incomplete. Modaff replaced Lemon. A line smash failed. Tucker circled end for 11 yards. Berry passed to Tucker for 8 yards. Tucker hit the line for 3 yards. Berry passed to Tucker for 4 yards. The Bears intercepted a pass in mid-field. Austin hit the line for 5 yards, and two more line plays added 3 yards. The Bears punted over the Miners' goal line. After two passes were incomplete McBride passed to Tucker for 7 yards. McBride's punt was blocked, but recovered by the Miners. McBride punted to the Miner 40-yard line as the game ended.

Summary:

Miners (10)	Sp. Teachers (13)
Ledford (c).....r	e.....Hiltebrandt
Gladden.....r	t.....Wilcox
McBride.....r	g.....Potter
Young.....cBritton
R. Johnson.....l	g.....Tolliver
G. Johnson.....l	t.....Davie
Couch.....l	e.....(c) Phillips
Berry.....q	b.....Henderson
Thomas.....l	h.....Thorn
Tucker.....r	h.....Reynaud
Lee.....f	b.....Austin

Substitutions: Miners, Hasselman, Lemon, Heinrich, Hodgson, Cassidy, Modaff.

Officials: Referee, Butler (Minnesota); umpire, Krause (Washington); head linesman, Weiser (Drake.)

— M S M —

WANTED.

SOME ONE TO TEND
FURNACE IN EXCHANGE
FOR ROOM. SEE

MRS. SHAVER AT HAT SHOP

BIG SPORTING TREAT IN STORE.

**Southeast Missouri Fans to Meet in
Rolla to Witness Matches Between
Champion Wrestlers and Boxers.**

Continued from Page One.

Brown and Livingston in the 160-lb class.

Wrestling, however, will constitute but half of next Saturday's big sporting bill. The boxing card will feature Brooklyn Tommy Sullivan, world's feather-weight champion, and the fast St. Louis youngster, Eddie Green, also of international reputation.

In the boxing preliminaries, Johnson and Springer in the 175 pound class will don the mittens, and the 120 pounders, Cooke and Knox, will mix.

Such an unusually good combination of matches as those mentioned above, both in wrestling and boxing is seldom if ever seen in a city the size of Rolla. Consequently Jackling gym should be filled to overflowing when the gong sounds for the first preliminary at 8 bells Saturday night.

As a special attraction the Junior class, which is in charge of the exhibition, will stage a fast and furious Dark Town battle royal. This will be a feature which alone should materially swell St. Pat's coffers.

Since this athletic exhibition will furnish an evening's entertainment of clean sport throughout, a special invitation is extended to all ladies to attend. An inducement is being offered which will guarantee the presence of a large number of the fair sex. This is an admission price of 50 cents, one-half of the regular fee. If you are one of the gentler sex and hesitate to attend this exhibition for fear you will be "one of the few", kindly allay your apprehensions, for you may rest assured that your sex will be out in force.

Regarding the admission fee of \$1.00 for gentlemen, it may be said that this low price does not mean that the exhibition will be a cheap affair; it certainly will be high class and worth many times that amount of money. This low admission fee means simply that the Junior class wants publicity. The Juniors had rather accomodate six hundred people at one dollar than three hundred at two dollars. They know that the spectators at this show will be so greatly pleased that they will attend other St. Pat's benefits later on. Hence, the bigger the crowd next Saturday the better the prospects for a record-breaking St. Pat's next March.

THE REAL THING.

I had a quiz,—oh my, gee whiz!
Somehow it struck me dumb.
I lost my cue,—I never knew—
Inspirations wouldn't come!

I was in a trance when I thot of
France,

Now who discovered Rome?
Is H2 wine or turpentine?
Oh how I wish that I were home!

I tore my hair, I fought the air,
I couldn't think of nothin'.
Then came the gloom, I saw my doom
For six weeks I'd been bluffin'.

If I survive, I must contrive,
To collect my scattered brain.
For now and then—I know not when,
I might have use for same!

—M S M—

**FOOTBALL MEN HOLD
BANQUET AFTER GAME.**

The M. S. M. Athletic Association was the host at an informal banquet in honor of the football squad which was held at the Hotel Ozarks in Springfield after the Miner-Teachers game Thanksgiving. The old proverbial turkey offered up his life for the occasion and was served in a most delicious manner. Those present at the banquet, besides the football men, were the officials of the game and the loyal supporters of the Miners including several old grads who were present in Springfield for the game.

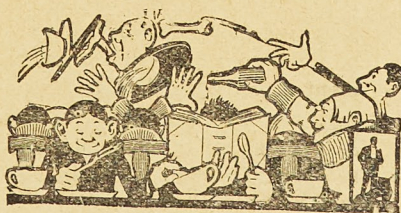
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THE MISSOURI MINER.

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

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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Issued Every Monday.

ARE YOU GOING?

In less than two weeks, December 13 to be more specific, the annual football banquet will be held in Jackling Gym. This occasion, which has been established as an annual event at the School of Mines, is but a token of respect and appreciation tendered to the football men by the student body and the Faculty for their efforts in our behalf during the past season. It is but a just reward for these men who have sacrificed much that the name of good old M. S. M. might be preserved on the gridiron.

The Miner Board and the Dynamiters have combined forces to make this event a success. These two organizations have gone to much work and expense to put on this affair, begrudging not one minute of their time, nor one cent of their limited capital, in order that the football men might be entertained properly. The price has been set at one dollar, which is within reach of every one. Jackling Gym has been selected as the logical place to hold the banquet, as

the environment of the Gym should add considerable enjoyment to the affair.

The path of the football player is not covered with garlands and roses, we assure you, not from actual experience, but from close association with men who have treaded this path, and any little acknowledgment which is shown them is by no means a flower's fragrance wasted on the desert air.

Don't be a slacker! Don't begrudge them a dollar when you will receive ample returns for your money in excellent food and entertainment. You enjoyed watching them in action on the gridiron, and forgot them with a passing handclap when they were carried from the field, injured. Let's remember them December 13.

— M S M —

WHO'S WHO.

Our old friend Boob Cactus (E. M.) Lindenau is deserving of special mention on our Who's Who honor roll. Superbly handsome, daintily graceful, and intelligently brilliant, he wins the obsidian lingerie at all interscholastic and social functions. At classical and interpretative dancing he arouses the envy (and ire) of male and female alike. He executes the "phoy copper phoy" step naturally and completely, making quite a crush in the overstepping of his partners' toes.

Without doubt Boob would make a success of the first order in the cavalry of the U. S. Army, there being no arbitrary constants or independent variables there to deter him, and he could not be booted for "failure to comprehend the fundamental principles," integrally speaking. Then, to, his pedal supports are already equinely inclined and would require no formal introduction to the w. k. horse. Cousin Baloney and Sassafra McNutt, we understand, are now high up in the army, and Cactus himself, a product of the Texas plains, should surely mount skyward into immediate success. If by any chance he should marry "Pearl" at the conclusion of his M. S. M. career, they will find a welcome in the land of cactus trees, Ivory soap weeds, and sage-brush groves. The Ozark brand of Volstead drinks will be unknown there and fewer bills for broken glasses will naturally result.

In a scholastic way Cactus displays the very essence of Palladian learning. Anthropologically speaking, he may be classed with Homo Neanderthalensis. For, is he not a

great advocate of cross-country walking? In mine rescue work it is but logical to hike out to the mine and register. Everybody else registers at the Bureau of Mines car, but why should Boob? Does this not show a brand of thought and intelligence not found in the average student? Does it, or does it not?

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Shaky roof? You blithely chance it,
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Where it's blacker than the devil;
Wallowin' in mud and slickens
Just a-rustling like the dickens

To end the job
And join the mob
In search of other pickin's.

Scalin' porphyritic ledges—
Seekin' hand holds on the edges—
Tracin' fault and vein and croppin'—
Poundin' samples—never stoppin';
On some lone expedition
Workin' with the sole ambition
To end the job
And join the mob
To find a new position.

Polin' sluggish tropic rivers—
Eatin' quinine for the shivers—
Hackin' with a dull machete
Till your very boots are sweaty;
Diggin' out a wily chigger—
Shoutin' curses at a nigger,
To end the job
And join the mob
In search of something "bigger."

—Walter H. Gardner,
(E. & M. J. P.)

— M S M —

ALUMNI NEWS.

R. M. Courtney is in the laundry business in St. Louis.

J. M. Wilson is contracting in St. Louis. "Mort" makes a specialty of any thing from sewers to houses.

K. A. Schmidt is employed as a geologist by the Tidal Oil Co., at Ft. Worth, Texas.

"Dip" Windell, B. S. '22 was down for the Thanksgiving holidays.

— M S M —

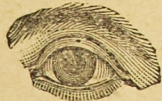
A CONSIDERATE SON.

In a recent letter a Frosh received a check for fifty dollars, accompanied by a plea to live more economically.

"My son," wrote the father, "your studies are costing me a good deal."

To which the young man answered cheerfully:

"I realize it, dad, and I don't study very hard, either."



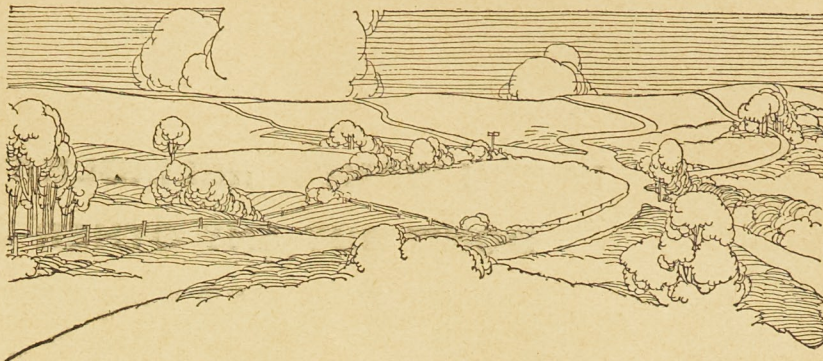
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Today, a nation's progress is indicated by the character and extent of its roads. Good roads are an essential of modern civilization. They facilitate the transportation of people and the interchange of commodities, and bind the nation into a homogeneous whole.

Where hand labor quarried the stone, dug the roadways and spanned the valleys in ancient times, explosives now perform this work a hundred times better, easier, quicker and cheaper. The modern engineer finds explosives power necessary to economical highway construction.

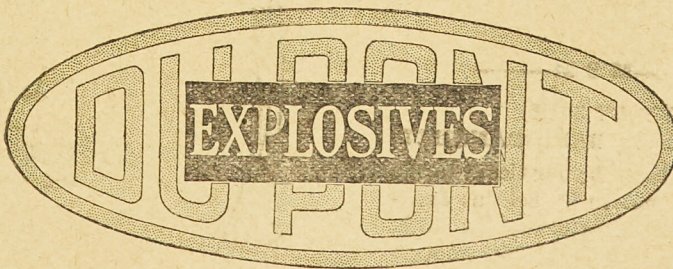
Du Pont explosives, because of their wide variety, are particularly adapted to road construction. This work includes boulder-blasting, drainage, grade reduction, subgrade and surface work, upkeep of roads and digging post and pole holes. The du Pont explosives recommended for road construction and maintenance are: Red Cross Extra Dynamite, Dumorite (Pacific Stumping in the Northwest), du Pont Gelatin and du Pont Straight Nitroglycerin Dynamite.

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FIRE AWAY.

"Bang!" went the rifle at the maneuvers.

"O-o-o-o-o-o." screamed the pretty girl, an nice, decorous, surprised little scream. She stepped backwards into the arms of a young man.

"Oh," she said, blushing, "I was frightened by the rifles. I beg your pardon."

"Not at all," replied the young man. "Let's go over and watch the artillery."

— M S M —

**DO NOT FORGET THE
FOOTBALL BANQUET.**

Have you bought your ticket to the football banquet to be held at Jackling Gymnasium Saturday the 13th. We have made the price low enough so that everyone can attend, and we have got to have your support to put this over. Give us your support by buying tickets at once. The price is only one dollar. Tickets for sale by any member of the Miner Board.

— M S M —

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MORE TURKEY.

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— M S M —

OFFICIAL DOPE ON THE
MINER-TEACHERS GAME.

Yards made in scrimmage: By Miners 134, by Bears 173.

Yards lost in scrimmage: By Miners 7, by Bears 11.

First downs made: By Miners 14, by Bears 8.

Penalties inflicted on Miners, 25 yards; on the Bears, 25 yards.

Passes attempted by Miners, 13; completed, 8; yards gained, 69.

Passes intercepted by Bears, 3.

Passes attempted by Bears, 3; completed, 1; yards gained, 20.

— M S M —

EDDIE'S NEW GIRL.

Did you get one of Eddie's cigars last week? Well, so did everybody else. And wasn't it a real Thanksgiving for Eddie and the missus? What! Don't you know what it's all about? Why, Mr. and Mrs. Eddie Griswold are the proud parents of a dandy eight and a quarter pound daughter, Patricia Jean, born on Monday, Nov. 24. Everybody's happy, and all concerned are doing splendidly. Congratulations!

— M S M —

MISSOURI ALUMNI RECEPTION.

Graduates of Rolla School of Mines
To Be Entertained Here.

Tulsa World.

Tulsa, Okla., Nov. 28.—A reception to former graduates of the Missouri School of Mines at Rolla and their wives, who reside in Tulsa and vicinity will be held Friday night at the home of Mr. and Mrs. V. H. McNutt at 1343 East Nineteenth street here.

Mr. and Mrs. John Scott, both of Rolla, who are visiting the McNutts will assist in receiving the former Rolla men. Some of the most active petroleum engineers, geologists of Tulsa and vicinity graduated from Rolla, which was one of the first state engineering schools to take up the study of petroleum engineering.

Such Privation!

Missionary—"During the three months we were on the island, my wife saw only one white face. That was mine."

Mrs. Guild—"How she must have suffered!"

Diplomacy.

"Mrs. Jones, I want to marry your daughter. However, I'm not good enough for her."

"Well?"

"But who is?"

Do College Students Read Advertisements?

*If you do, surely you
will read this one*

One fine day a Sophomore from a leading University came to see us, suggesting that we advertise in their undergraduate paper, and best of all convinced us, and this is how he did it:

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Second—His Father died in the prime of life and good health and left almost no insurance, when he could have carried \$50,000.

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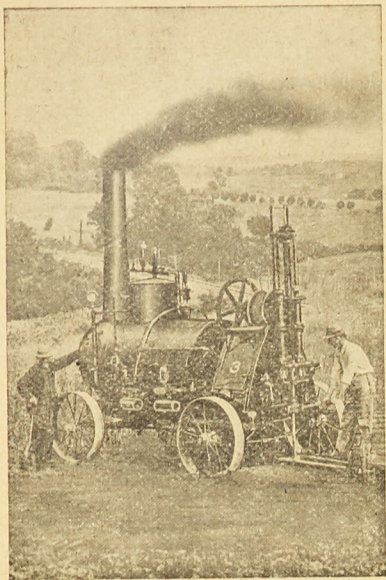
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CHEMISTRY DEPARTMENT.

Editor's Note: This is the first of a series of articles on the various departments of the school. The second article will appear in an early issue.

The Missouri School of Mines may be justly proud of its chemistry department. This department is one of the seven major departments of the school which confers degrees for a completion of the curriculum. Dr. W. D. Turner is the head of this department, and a better man would be hard to find. Dr. Turner is well liked and respected, and justly so, for he takes a keen interest in the work of the students in his courses, and is always ready to lend assistance in the laboratory or to explain some point of theory which is not clear. The same is true in the case of all of the members of the faculty who train in the chemistry building. From Prof. Kershner, who takes delight in teaching Freshmen to evolve H_2O , to Director Munroe, who teaches his incredulous charges the structure of the molecule, there is a spirit of interest in the work of the students. This is clearly demonstrated by the unfaltering work of Prof. Keeling, who coaches his charges in the art of making spirits, and by the tireless efforts of Dr. Schrenk to teach his boys to analyze anything gaseous, liquid or solid. To say that the instructors of this difficult but interesting science are liked and respected by the student body is synonymous to saying that they are both friendly and efficient.

In the matter of equipment this department need not take second place to any in school. Practically all apparatus found in chemistry laboratories anywhere may be found (if

you can persuade Fred Lane that your antecedents are good, and that you really need that special piece) either in the individual desk of the student, or upon application, in the stock room. The laboratories are well lighted and ventilated. They are supplied with gas, water, and compressed air from the plants owned by the school.

In addition to the present equipment, and owing to an ever increasing demand for the course, the chemistry department is planning an addition to the present building to be equipped especially as a petroleum technology laboratory. This new laboratory will be so arranged that every step in the refining of crude petroleum can be faithfully carried out in the laboratory on an experimental scale.

The industrial chemistry laboratory is also very interesting and practical. Very few students (except the chemists) know of the wonderful possibilities attending the famous 48-hour run on wood distillation. Reputations are made and—lost. (For further details consult Fred Lane.)

In summary, our chemistry department has two aims or purposes. First, to give all students a thorough dependable grounding in the essentials of chemistry; and, second, to educate men as chemical engineers. The department is equally proficient in these two functions, and the net result is an aid in making M. S. M. a better and stronger school.

— M S M —

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Prof. Henning—"Have you done your outside reading?"

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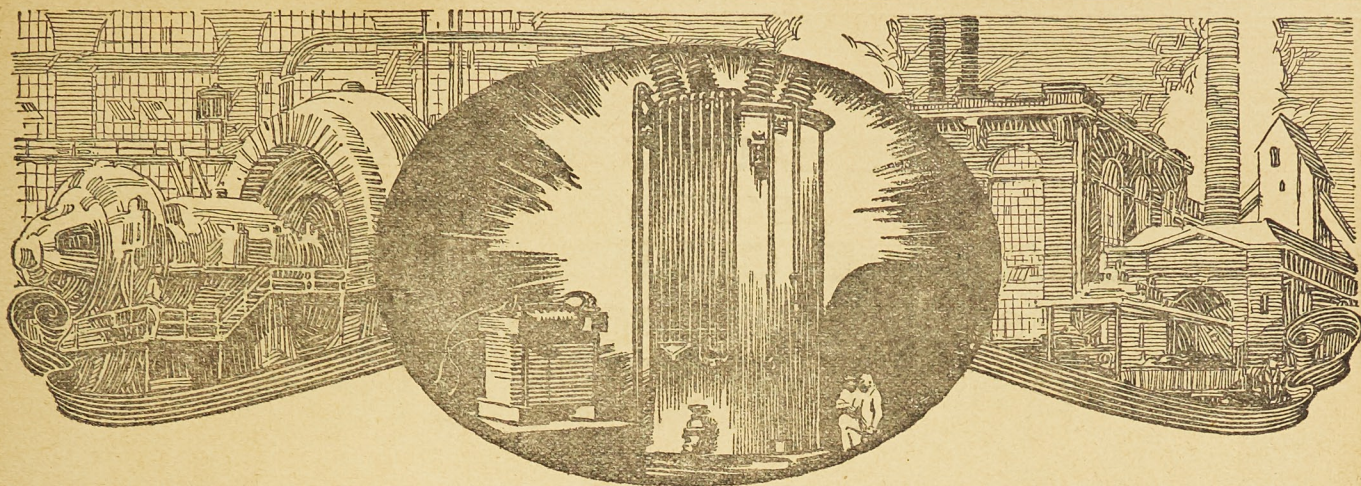
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Here was a brilliant engineering feat—a feat that through the years has been a particular inspiration to a specialized group of "design engineers"

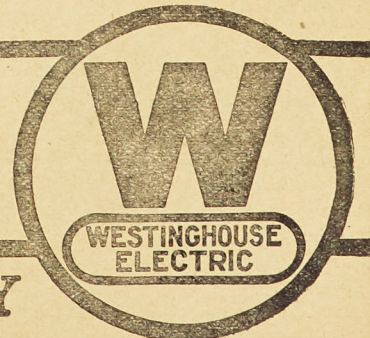
within the Westinghouse organization. These men are electrical and mechanical engineers who are attracted not merely by an engineering problem—but by the technical difficulties of "licking" that problem to narrow and exact practical limits.

These men work continuously with both sides of an equation. On one side are the needs of a customer. For the other side must be developed apparatus which exactly meets those needs. The apparatus may range from a complete system of electrification for a railroad to a new type of curling iron.

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