



19 Nov 1929

The Missouri Miner, November 19, 1929

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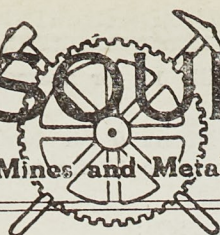
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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.



Vol. 16

Tuesday, November 19, 1929

Number 9

1929 FOOTBALL SCHEDULE

Miners 13, Kirksville 12
Lombard 7, Miners 6.
Miners 73, McKendree 0
Miners 19, Central 6
Miners 0, Westminster 12
Maryville 6, Miners 33
Nov. 23—Northeast Teachers,
Muskogee, Okla.
Thanksgiving—Drury, Spring-
field.

MINERS ANNEX DECISIVE 33-6 VICTORY FROM MARYVILLE TEACHERS.

....The Miners drove their way to an easy victory over the Maryville Teachers here last Friday. After a few fruitless attempts to gain thru the stone wall presented by the Miner line the Teachers took to the air and continued an aerial attack throughout the game. The Miners scored in every period of the game. Thornton, Hassler and Sutherland gained almost at will through the Teachers forward wall, while Schofield, Kelly, and Hyland caused the Maryville team much worry from off tackle plays and end runs.

The Maryville team staged several effective aerial attacks but these advances were usually stopped when some Miner intercepted a pass. The Teachers passed 33 times for a total gain of about 165 yards but their successful passes were too far separated to cause the Miners much worry. They accounted for their only touch down in the second quarter when a 15 yard pass followed by a ten yard run placed the ball over the Miner goal line.

The Miner line appeared to be working exceptionally well both on the defensive and the offensive. They opened wide holes when on the offensive and stopped every thing the Teachers directed toward them.

The game started with an exchange of punts which ended with the ball in possession of the Miners near the center of the field. Schofield passed

SENATOR W. R. PAINTER ON GENERAL LECTURES.

An Authority on Missouri to Speak
At Parker Hall Thursday Evening.

An authority on Missouri, editor of the Carrollton Democrat, a former lieutenant-governor of the State, a member of the State Senate for many years, a member of Governor Caulfield's Survey Commission, an old grad of M. S. M., and one of Missouri's leading citizens, is to be the speaker of the evening on the general lectures program for Thursday evening, November 21, when Senator ning, November 21, when Senator W. R. Painter of Carrollton, Mo., will talk.

Senator Painter has made a study of Missouri. He reads volumes of reports on Missouri industries and resources. He has studied the machinery of government, and over a long period of years he has found time to visit practically every locality within Missouri's borders. He is said to know more about Missouri than any other editor in the state. Missouri is his hobby. Seldom does he make a speech without some affectionate reference to his native state. And it is said that at important gatherings throughout the state, when leaders are in a quandary as to what to do they usually settle the matter by someone suggesting "Ask Painter; he knows."

Senator Painter, as an alumnus of the School of Mines, and as an interesting speaker and authority upon his subject, will be doubly welcome on the general lecture program.

His subject will be "Engineering Applied to Politics."

A full house is requested for Senator Painter. In return a profitable and enjoyable evening is promised.

MEMBERE OF A. S. C. E. ENJOY NINE REELS OF BENEFICIAL PICTURES.

Recently the members of the A. S. C. E. met in the geology room and

DR. ROBERT A. MILLIKAN TO LECTURE NOV. 25TH.

The next lecturer on the General Lectures program will be Dr. Robert A. Millikan, Director of the Norman Bridge Laboratory of Physics and Chairman of the Executive Council of the California Institute of Technology at Pasadena, California. Dr. Millikan is the most outstanding American Physicist of the present generation. He is especially noted for his study of the absorption of X-rays and for the isolation of an ion and a direct study of its properties. His "oil drop" experiment will always remain as one of the classics in the field of Physical experimentation. More recently he has devoted much time and experimentation to a study of cosmic rays.

Dr. Millikan has been honored with honorary degrees from most of the leading American as well as foreign universities and many learned societies have granted him various medals and diplomas. In 1923 he was awarded the Nobel prize in Physics, being the second American Physicist to receive that honor.

In spite of his busy life as a scientist, Dr. Millikan has found time to grow spiritually and many of his later writings have been magazine articles explaining the attitude of a scientist towards religion and attempting to break down the old notion that there is any conflict between Science and Religion.

The School of Mines is exceedingly fortunate in having this opportunity of hearing Dr. Millikan. His lecture is next Monday night, Nov. 25th.

MINERS MEET NORTHEASTERN STATE TEACHERS COLLEGE OF OKLAHOMA NEXT SATUR- DAY.

The Miners will journey to Muskogee, Okla., next Saturday where they will meet the N. S. Teachers College in the last non-conference game of the season. The entire squad emerged from the Maryville conflict with very few injuries. The Oklahoma Teach-

Continued on page 2.

Continued on Page Three.

Continued on page eight.

Continued from page one.

for a 20 yard gain and Kelly followed up by making the remaining 30 yards in two successive plays. Hyland kicked goal. The remainder of the quarter was occupied by playing the ball back and forth near the center of the field. Etrly in the second period the Teachers took Kelly's kick and ran it back to the Miner 35 yard line from where they completed a pass for their only score in the game. They missed the try for point. Maryville kicked off to the Miners and held the ball well down in the Miner territory for several plays but the Teachers forward wall weakened and Schofield and Thornton took turns in carrying the ball until within scoring distance. Thornton heaved a pass to Malick for another touchdown. Schofield accounted for the extra point by an end run. The Miners started another march down the field but were stopped by the end of the half.

A Miner march down the field was stopped when Teachers intercepted a pass but the Miners blocked the Maryville kick and Thornton carried the ball over the goal on the next play. Londrigan kicked goal. A few minutes later Thornton caught a Maryville pass and the Miners again advanced to a touch down. Hassler made the last few yards on a fake pass, stepping neatly through a hole in the center of the line that was wide enough for a wagon to pass through.

Thornton accounted for the Miners final tally when he went through a gap in the Maryville line for thirty yards. Hyland missed the try for goal.

Starting lineup:

Miners	Position	Maryville
Malick	L.E.	Marr
Yarber	L.T.	Seeley
Lacy	L.G.	Mahood
Kirkpatrick	C.	Ruth
Andres	R.G.	Sillers
Koch	R.T.	Hodge
Londrigan	R.E.	J. Smith
Kelly	R.H.	Barnes
Hyland	L. H.	Daniels
Schofield	Q.B.	Fisher
Sutherland	F.B.	C. Smith

Total yards from scrimmage:
Miners 347; Maryville 94.

First downs: Miners 17; Maryville 10.

Passes: Miners attempted 14 completed 4 for 75 yards. Maryville attempted 33, completed 12 for 160 yards.

Punts: Miners 6 for average of 37

yards; Maryville 11 for average of 34 yards.

Penalties: Miners 6 for total of 55 yards; Maryville 10 for total of 50 yards.

Score by quarters:

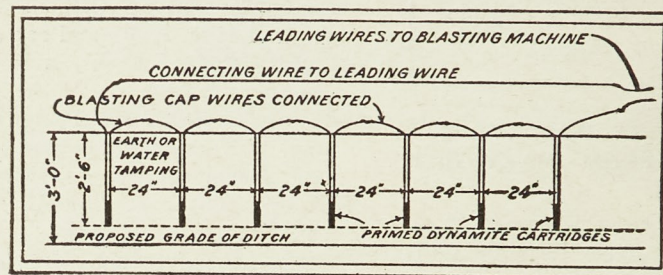
Miners, 7-7-13-6—33
Maryville, 0-6-0-0—6.

There was another Scotchman who always jumped over the gate to save the hinges.—Lehigh Burr.

Ford

L. T. HUDSON
MOTOR CO.

Ditching and Drainage

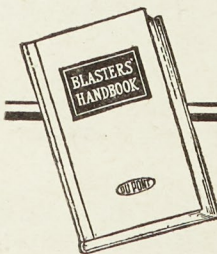


LESSON NUMBER 11 OF THE BLASTERS' HANDBOOK

THE economic advantages of blasting ditches with dynamite warrant obtaining a practical understanding of the methods commonly used. Blasting ditches cost less; the soil is evenly distributed on either side of the ditch; no spoil banks are created because the explosive distributes the earth and makes the ditch where required; no expensive machinery to locate and operate; there are no overhead expenses for equipment; ditches can be dug with dynamite where the conditions are too difficult for other methods, and, finally, the process is so simple.

Do you understand the propagation method of ditch blasting? Do you know the proper way to load, the amount of charges, the kind of explosives to use for each kind of ditch?

All these questions are completely and practically answered in the Blasters' Handbook. There are tables of charges, plans for loading, cross-section views, and concise instructions for every step. Here is information seldom given in the average text-book—the "boiled-down" experience of field men skilled in the use of explosives for every purpose.



The Blasters' Handbook is yours, without cost,
by merely mailing this coupon



REG. U. S. PAT. OFF.

E. I. DU PONT DE NEMOURS & CO., Inc.
Explosives Dept., Wilmington, Del.

Gentlemen:

Please send me a copy of your "Blasters' Handbook."

Name

Address

Continued from page 1

The pictures were furnished to the association through the courtesy of the U. S. Bureau of Public Roads, and portrayed the highest type of scenical beauty, road construction and general engineering.

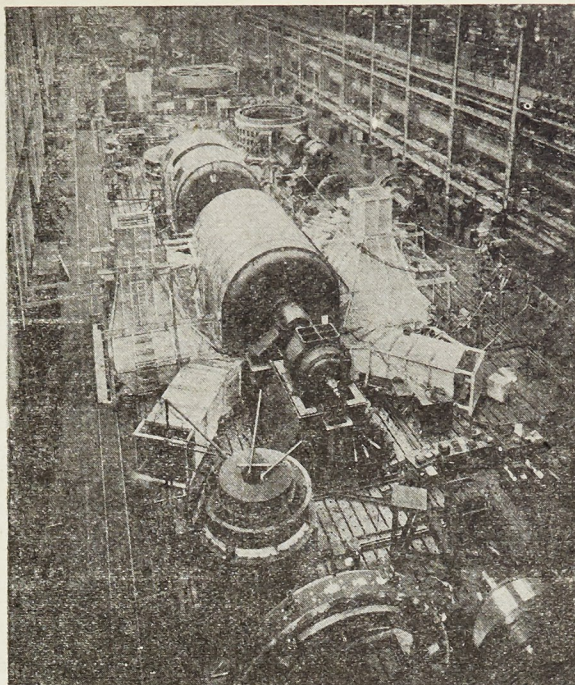
Two reels were devoted to the scenic beauties which are now offered to every motorist who drives over the federal roads. They took us winding through Rocky Mountains, through the Yosemite Valley, thru the great forests of California and Oregon, and across many beautiful rivers.

One reel was devoted to giving the M. S. M. members of the association an opportunity to view the greatest bridge test ever made and to actually see its results. The tests were made on a modern reinforced arch bridge over the Yadkin River in North Carolina under the supervision of the U. S. Bureau of Public Roads and the N. C. State Highway Department, to determine the greatest load the bridge could safely carry. It was interesting to note that this particular bridge, which is of the common type of arch bridge, supported a load three times as large as it was designed for, before it finally failed. After the failure of the bridge, under this enormous load, the war department took it over for final destruction, experimenting with aerial bombs and huge guns to determine their strength in destroying concrete structures.

This extensive program of pictures was carried over to the next morning, any many more feet of film was devoted to the showing of various results of the famous Bates Road tests, and the growth of good roads throughout the U. S.

The Batse road test is in all probability without a doubt the greatest road test in the history of highways. The test was made by utilizing a strip of road about four miles long, and on this piece of road twenty-seven varieties of surfaces were laid, no traffic was allowed on the road with the exception of huge army trucks which were kept patrolling the road twenty-four hours per day. In this manner the supervisors of this test were able to select the best roads, those which could be built the most economically, and would give the best service. This test has turned out to be of world wide fame in its favorable results and saving value to many states, and foreign countries.

Three reels of film were devoted to



PUTTING THE BIG ONES THROUGH THEIR PACES.

The most comprehensive tests ever made in the factory on very large units were recently carried out at the East Pittsburgh Plant of the Westinghouse Electric and Manufacturing Company. Two 68,750 kv-a. 60-cycle, 3-phase turbine generators, 1,800 rpm., were given a wide range of loads under controllable conditions as to power factor, ventilation, etc.

The two machines were mechanically and electrically connected together, following the usual practice in loading-back tests, and the combines losses in the two machines were supplied from an external circuit. An unusual method of circulating the current was, however, used for the first time outside of a laboratory experiment. The rotors were coupled out of phase an amount sufficient to circulate the desired load at 80 per cent power factor.

The only other way to test such large machines under contract rated conditions is to run them after installation in the power house, where, however, load conditions cannot be so readily controlled and complete facilities for making tests are often lacking.

The load losses at 80 percent the growth of roads in the United States, and the passing from the old toll system to the present system of road financing. It showed the historical development of financing road construction from 1875 up to the present time. The story was given

power factor were found to be the same as the conventionally determined values measured on short circuit. The iron loss in this particular machine has been materially reduced as compared to the values in older machines of this large size.

The tremendous roar produced by the enormous volume of air circulated by the machines with the intakes and outlets open sharply contrasts with the comparative quietness secured by the enclosed-return air system as used in the engine room. The total of the losses even at the high efficiency of these machines was sufficient to raise the temperature of the big test floor an appreciable amount.

The quality and thoroughness of the tests reflect great credit on the Testing Department and the Factory and Engineering Departments of the Westinghouse Electric and Manufacturing Company. The test furnished an adequate check on the accuracy of the standard methods of calculating losses, temperatures, etc. from partial tests; proved that guarantees have been met; gave data for future designs.

By the more intimate knowledge of performance gained by such tests in the art advanced.

from a historical and human interest standpoint and proved to be both interesting and beneficial to the association.

The society hopes to have many more of these programs throughout the year and cordially invites anyone interested to attend.

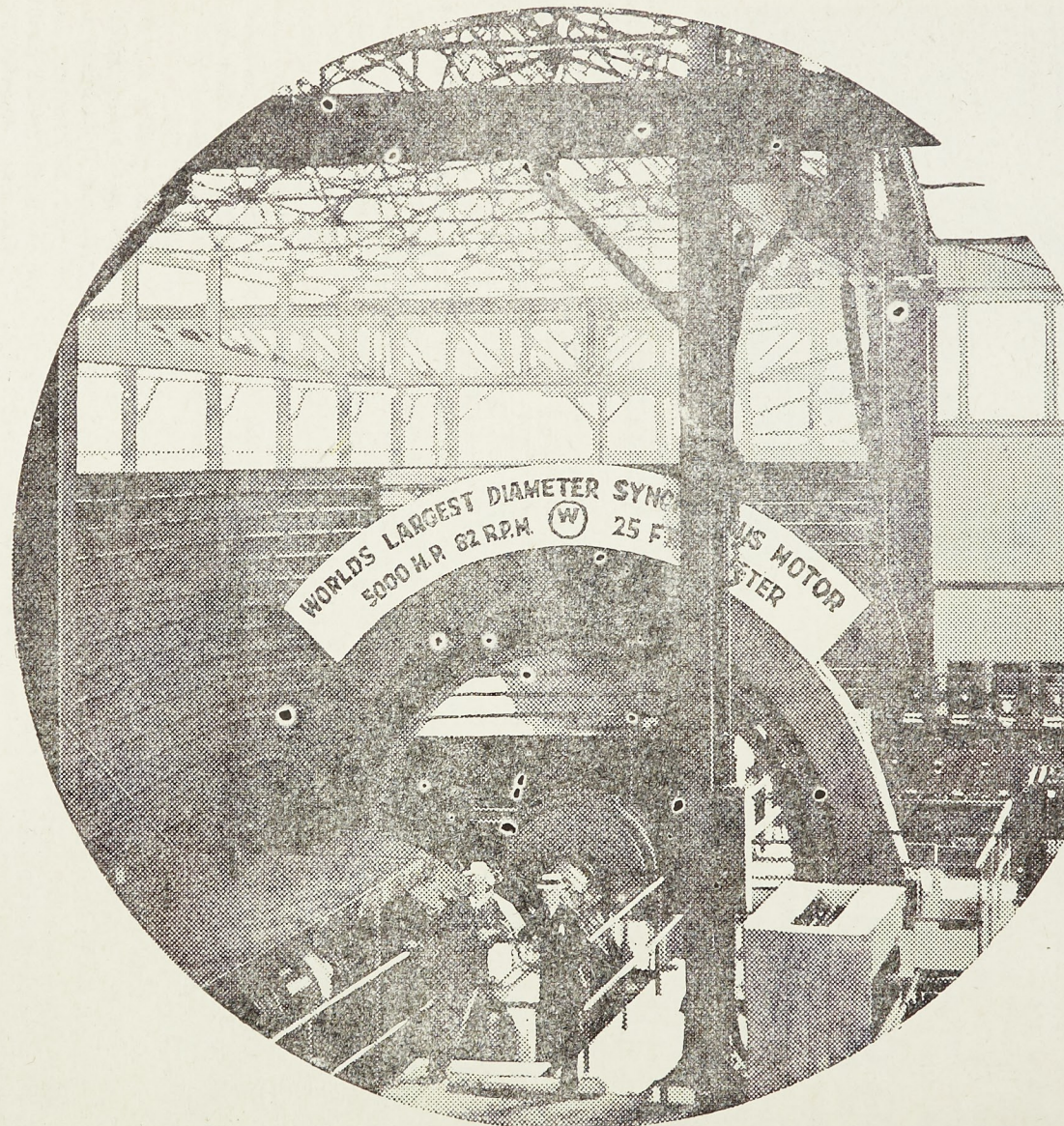
M. S. M. PLAYERS TO PRESENT "FULL HOUSE."

A reckless and wealthy youth who writes "classical" love letters to a designing chorus-girl and an attorney brother-in-law who steals the letters and then gets his handbag, containing them, mixed up with that of a crook who has stolen a valuable necklace from the mother of the indiscrete young man, lay the plot of Fred Jackson's "A Full House" which will be presented by the M. S. M. Players on Thursday, Nov. 21, as a part of the General Lecture series. The efforts of the young man to forestall a breach-of-promise suit by getting married in a hurry are a valuable lesson to desperate Miners. The characters included are: Ned Pembroke, the rich young lover; Daphne, his fiancée; George Howell, the lawyer; Ottily, his wife and Daphne's sister; Mrs. Winnacker, the sisters' aunt; Nicholas King, crook and pseudo-detective; Mrs. Fleming, a frantic apartment owner; a police sergeant and his two helpless assistants; Susan and Parks, Mrs. Fleming's useless, but killingly funny, servants; Vera Vernon, the chorus-girl; and Mrs. Pembroke, the owner of the stolen necklace and Ned's mother.

At the outset, we find Susan and Parks occupying the parlor of Mrs. Fleming's apartment, which has been sub-let to Mr. and Mrs. Howell. The robbery of Mrs. Pembroke's jewels is brought to light and also the fact that George had left his wife the day after their marriage on a "business trip". Auntie, suspicious of George, arrives and makes matters worse for poor Ottily, who is already distracted since George has been away two days longer than was expected. Daphne is with her when Ned bursts in, in love with Daphne but in trouble with Vera. The situation is relieved when George phones, saying that the letters are in his possession; Ned proposes to Daphne, and the fun begins. George brings in what

but is actually King's, which holds the stolen necklace. The women open the bag, discover what is in it, remove the jewels, and accuse George of being, as Auntie had predicted, a thief. King appears upon the scene and attempts to extricate himself,

WHAT YOUNGER COLLEGE MEN ARE DOING WITH WESTINGHOUSE



This 5,000 h. p. motor in the Columbia Steel Company's plant, with its frame of arc-welded steel, is physically the largest synchronous motor ever built.

Ninety days to go—

While you Seniors were shuffling worries about machine stresses and saturation curves with those of football last fall, a group of your

ble, test and ship any large unit, let alone a new achievement in size and type of construction, affords no time for idle speculation.



H. R. HILLMAN
Contract Administration
Carnegie Institute of
Technology, '22



W. B. SHIRK
General Engineer
Lehigh University, '20



B. I. HAYFORD
Switchboard Engineer
Syracuse University, '22



H. C. MEYERS
Machine Design
University of Nebraska, '27



Oklahoma A & M College, '23

Daphne is with her when Ned bursts in, in love with Daphne but in trouble with Vera. The situation is relieved when George phones, saying that the letters are in his possession; Ned proposes to Daphne, and the

which contains Ned's letters to Vera, but is actually King's, which holds the stolen necklace. The women open the bag, discover what is in it, remove the jewels, and accuse George of being, as Auntie had predicted, a thief. King appears upon the scene and manages to extricate himself from a most involved position to the dismay of everyone. The plot is cleverly evolved, with plenty of humor adding life to it. You get two dollars worth of laughs back, all at once, in this three-act farce.

We are anxious to see this production by the M. S. M. Players. What it takes to support and encourage them, we have.

IRA REMSEN SOCIETY HOLDS FIRST MEETING.

The Ira Remsen Society, composed of students taking chemical engineering, held their first meeting of the year Monday evening, Oct. 14. The meeting was attended by an enthusiastic crowd. The prospects of the organization having a successful year seem very bright.

The program for the evening consisted of several interesting talks by members of the chemistry department. Dr. Schrenk, head of the department, talked of his trip thru the east and Dr. Dunlap spoke of his trip through Texas and Mexico. Both of these talks were semi-technical so as to be interesting as well as instructive.

In addition much business was handled during the meeting: Election of officers was as follows: Kaveler, president; Traband, vice-president; and Epperson, secretary and treasurer. Plans were also discussed for bringing several out-of-town speakers before the society in the near future.

At the close of the meeting those fortunate enough to be present were treated to a squirrel supper, which needless to say, was greatly enjoyed.

All chemists are urged to attend the meetings, and a special invitation

This 5,000 h. p. motor in the Columbia Steel Company's plant, with its frame of arc-welded steel, is physically the largest synchronous motor ever built.

Ninety days to go— teamwork wins

While you Seniors were shuffling worries about machine stresses and saturation curves with those of football last fall, a group of your predecessors, not so many years ahead of you, were playing the game with grim realities.

The Columbia Steel Company of Pittsburg, California, completed plans on September 12th to build a new tinplate plant. On the 13th they gave an order to Westinghouse for two 5,000 horsepower synchronous motors to drive the rolls, to be physically the largest synchronous motors ever built. Delivery of the first was wanted in ninety days.

Ninety days in which to design, manufacture, assem-

ble, test and ship any large unit, let alone a new achievement in size and type of construction, affords no time for idle speculation. Westinghouse men went at the job as only an experienced and thoroughly equipped organization could do. And on the scheduled date, four flat cars and a box car rolled out of the Westinghouse plant, carrying the completed and tested motor.

It was an industrial victory, as satisfying as any athletic gain. Teamwork and individual skill had won. Westinghouse had once more made good and upheld the reputation that earns the big electrical jobs for Westinghouse men.



Westinghouse

is extended to all freshmen interested in chemical engineering.

RESEARCH ACTIVITIES OF CERAMIC DEPARTMENT.

One of the prerequisites for graduation in Ceramic engineering is the completion of a research problem bearing on the various lines of Ceramic work. Mid-semester finds the seniors hard at work on their problems, the successful completion of which will be of great value to the industry.

Messrs. Netzeband, Page, Harvey and Powell are all working on the extensive research program of the National Brick Mfg. Association, on the Dry Press Method of making brick.

Meeka is working on a light weight high temperature insulating brick. This work is more advanced than any of the other problems and every indication is that the work will result in a successful light weight brick.

Maune is determining the effect of mechanical treatment of fire brick mixes, with particular reference to porosity, strength, and the other physical properties.

Davis is working with high temperature cements, carrying forward the work he started with the Wells-ville Fire Brick Co. last summer.

Cirkal is investigating the causes of disintegration of Fire Brick during the drying operations.

A HOT TIME WHILE IT LASTED.

Speaking of the lowly cow—and the bull—we heard of a most peculiar discovery on a farm up near International Falls, where a "filling station" is not a place to tank up on gas, and the phrase, "One-half of one per cent" refers to the coloring matter only.

It seems that a farmer went out to the barn one morning and heard all his cows mooing the strains of "Sweet Adeline." They had gotten

six bushels of moonshine mash by mistake.

He milked them anyway. Three hours later, the covers on the milk bottles blew off. Before he could warn his customers, seventeen babies became intoxicated. Before noon, a walking delegate from the Bootleggers' Union came around to see the farmer about taking out a card. The farmer took a drink, and threw a tractor at his wife; she retaliated by swinging the windmill at him.

By three o'clock the farmer was being offered six bottles a quart for his milk. But he had tough luck. Someone left a newspaper in the barn telling about penalties for violating prohibition, and all the cows went dry!—James Summers.

Co-ed. Oh my dear you should have seen the hands I held last night.

Ed. In bridge, love, or self defense?

Production Supervisor
Oklahoma A & M College, '23



National Bank of Rolla

ALUMNI NEWS.

James A. Westgard, '25, has moved from Hannibal to Memphis, Mo. He is still with the Missouri State Highway.

Sam Hodgdon, 28, passed through Rolla on his way to St. Louis to visit his parents at 230 Sylvester Ave., Webster Groves, Mo.

J. J. Haberthier, Forest City, Pa., owing to ill health resigned his position with the Scranton Coal Co.

Henry (Topsy) Hartzel is busy following the fortunes of the Baxter Springs and Rolla Miners football teams. Henry never forgets to pull for the Miners, as he was one of their star players some years back. And Henry can take things easy, too. Just recently some parties laid down \$100,000 on the barrelhead for Henry's and Si Kenney's and other's interests in the Just-right tailing mill—and they refused. Those boys have confidence in the zinc business, which is as it should be.

Graduates in Metallurgy, 1929

Wm. L. Couch, with the Penoles Silver Mining Company, Monterrey, Mexico.

E. J. Crum, with the Bethlehem Steel Company, 123 Wall Street, Bethlehem, Pa.

B. N. Daniloff, graduate student, Carnegie Tech., 2216 Coltart Ave., Pittsburgh, Pa.

E. A. Godat, with the Cerro de Pasco Copper Company, Aroya, Peru, South America.

J. H. Hahn, associated with his father in gravel business, 201 East 5th Street, Muscatine, Iowa.

F. W. Hoertel, with the R. W. Hunt Company, Syndicate Trust Building, St. Louis, Mo.

C. G. Hueter, with the U. S. Zinc Company, 201 Georgia St., Amarillo, Texas.

H. D. Monsch, with the Aluminum Company, Aluminum Club, New Kensington, Pa.

M. V. Healey, General Electric Co., 814 Union Street, Schenectady, N. Y.

R. L. Kidd, U. S. Bureau of Mines, Salt Lake City, Utah.

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HAIR CUT
SHAMPOO

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FOR

Sandwiches

DINNER

Lunches

Johnson's Cafe

Cor. Eighth and Rolla Sts.

THE MISSOURI MINER

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

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A QUEER TRADITION.

By Arthur L. Bradford.

have a growing feeling that the most suggestible creature in the world is the embryo engineer. His first few social and professional contacts made, and he has swallowed in purgative quantities an attitude or manner of thought which locally is supposed to eliminate the last trace of effeminacy from the system of the real he-engineer. And now you may search between the lines and back of them for some insidious implication concerning any person or persons about this school, but I can tell you that I refer to no one, but to a very prevalent tradition. This is the "anti-culture", or, more exactly perhaps, the "anti-English" tradition. I call it a tradition, though it is strangely different from any other tradition I ever knew. I can understand why a student in the earliest days of his academic life should hate Washington or Drury or the night watchman, but why he should so naively and uncritically and with such enthusiasm suddenly assume the aversion of some junior (sage though he be in some respects) in the matter of scholastic interests is quite be-

yond me.

But may we observe this enormously interesting attitude a bit closer? And, above all, may we consider it in good humor and without attaching too much dignity or importance to it? I have no sermon to preach upon the value of literature to engineers. This sermon has been often preached with good, bad, or no effect, I know not which. I have too little of the spirit of the crusader or reformer in me, I suppose, but I have always felt that it was just a bit illogical for me, with a primary interest in literature and the humanities, to deliver myself of long preachments upon the value of what I like to someone whose interest and effort is remote from my own. I have never been an engineer. How, may I ask, can I realize first-hand the importance of English in this profession? And, on the other hand, is it not quite as immature for a technical student who has not enjoyed the practical advantages and aesthetic satisfactions of literature to ridicule this study? Of course, this judgment passes by the matter of the mechanical fundamentals of English. I know, and so does the Freshman

who detests Composition and Rhetoric, that if he cannot write or speak, he is not going to be read or heard. In that matter I can prescribe for and advise every human being under the sky who lives with other people. But where it comes to purely cultural study the situation is different. How can I, without knowing the pleasure of cultural breadth, discount them? Or how can my master not culturally narrow know the difficulties of cultural narrowness? All of which resolves itself into this: that where it is often impolitic and dangerous to evaluate, it is quite to safe to speak of values. It is from this point of view that I submit literary appreciation to the engineer—not as a valuable thing, but as a value.

But wait! I have presupposed that the engineer is capable of appreciation, that he has latent critical and creative abilities, and, most fatally of all, that he has an ego! I have practically said that he is potentially as imaginative and critical as the "Arts" (whoever he is). But no good engineer would ever admit this. As he describes himself, he is coldly scientific, terribly practical, a sort of bipedic comptometer whose rudimentary imagination is completely satisfied in the application of a logarithmic computation and whose ego finds full and complete expression in the memorization of a valence table. Undoubtedly, there would be a certain charm about so unsophisticated a person, and yet something distinctly tragic; for one would inevitably feel, I believe, that a potentially virile ego had been stunted by a diet of five-place tables and atomic charts. And, at the hazard of refuting a sacred tradition, I shall insist upon the thesis that simply because a student elects an engineering course his ego does not atrophy, nor does he instantly lose all interest in human values. He is still an individual with a uniqueness of being and thinking of which he is acutely jealous. Several year's observation of engineer character has taught me that, though the Miner may not care for argumentative technic, he does love to argue; and, that, though we may wax profane at the mention of Shelley or Swineburne, he is really interested in the very things these men talked about. A most interesting complex. I have never been able to figure out how the Miner can so heartily damn all study affording opportunity for self-expression, and by every move that he makes assert that

he has a self to express.

I am aware that a great number of educational pseudopodia issue from the central idea that engineers have no interest in literary or artistic study and hence derive nothing from it and should not be required to take it. There are numberless suggestions, much delivery of heavy pedagogic opion. All these suggestions are very much of a kidney, varying only in detail. All would cut literature to the irreducible minima, and all would secure a splendidly vocationalized English curriculum. All of which convinces me that English is of all men the most loyal to his profession; he is continually thinking of what he needs as an engineer, with fine self-sacrifice forgetting completely what he needs and wants as a human being. And perhaps we who rather stubbornly insist upon literature for engineers are unwittingly cultivating a spirit of infidelity within the ranks of a great profession. For surely if we insist upon literature, we do so with a purely artistic intent; we should never represent Coleridge or Lamb as putting strength into the biceps muscle. We know they will not. I, for my own part, would not have the suggestion of an idea of how to utilitarianize "Christabel". I might, conceivably, be done, but I do not know how.

So with those who would tell the engineer what he needs as an engineer, I have no quarrel. I only submit that it is possible that they do not always so fully understand what he needs as a man. Perhaps, however, the conflicting advice which a student gets is the best thing for him; perhaps he is thereby kept from becoming a complete egoist or a robot, the more unlovely of which I should be hard put to choose.

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THROUGH THE TRANSIT

The Juniors are about to announce that their next social function will be a Yo-Yo contest to establish the lawful champion on his legal throne and also to determine the personelle of the Varsity Yo-Yo squad which will do battle with Drury on November the 32nd for the inter-collegiate title. The contest will include plain and fancy yo-yoing through the courtesy of the Super-Seniors.

The collection taken up for the Band at the football game, Friday, was in every way a perfect flop. Hasn't the student body got enough pep and spirit to help their own band get to the Muskogee game? Just a little over five dollars was all that was contributed and a handful of that was pennies. Two-bit pieces were hard to find and with the help of a microscope a half a dollar was found. Those fellows worked hard and deserved support, get behind them, every little bit will help. It should be easy to raise twenty-five dollars out of this school and there should be a lot more than that taken in. What a bunch of poop-outs you're guys turned out to be.

Some equestrian must have made money last week by teaching the Pikes how to ride a horse with one hundred driving. Squint says that they seemed to have a good time at that. If a real ranch hand had seen some of the outfits that were worn Friday night, he'd have passed completely out of the picture with fright and horror.

Sam Gorenstein just filed his application for membership on the swimming team as he was thoroughly satisfied with the grace and form in diving that he displayed at the game.

The boss is sorry that he was not able to furnish any news last week as the transit was out of alignment, but next week it will be fully repaired and trained on some of our luminous campus light. BEWARE.



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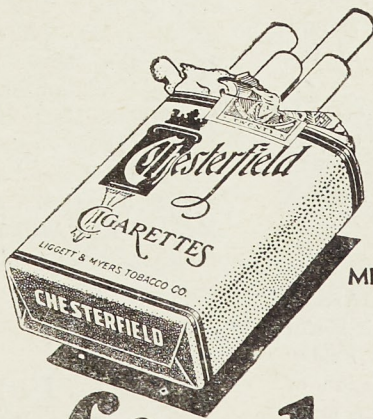


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Continued from page one.

ers have a team that promises to furnish some keen competition for the Miners. This game will be one of the best on the Miner schedule. The game is given as a benefit to the Y. M. C. A. and a large advertising program is being staged by the Oklahoma College. About 8 or 10 thousand people are expected to attend the game. A victory should speak well for the prowess of the Miner eleven.

A large number of rooters are going to accompany the team on the special cars reserved. The band will also make the trip and help to furnish pep for the Miner warriors.

PI K. A.'S REENACT OLD TIME BORDER DANCE.

The Pi K. A.'s crowned their social achievements of the fall last Friday when they gave their impression of an old time border dance. In a manner most fitting to the occasion, the dates were properly escorted to the dance in staunch wagons of ancient vintage.

Drab walls were fittingly decorated with original cartoons and enlightening signs. The old time bar, complete in every detail, had its place in help-

ing to create the proper atmosphere for the occasion. Flickering candle light cast wierd shadows on the handsome cowmen and graceful frontier lassies.

The presence of numerous out-of-town dates accounted for much of the success of the endeavor. They included: Misses Eva Hudson, Flora Hudson, Misses Glasscock and Frazer from Drury College; Miss Aline Jensen, Carthage, Mo.; Miss Sell, Crocker, Mo.; Miss Miller, Cedar Rapids, Iowa; and Misses Ruth Williamson, Eunice Williamson, Kate Springer and Marthe McQuilkin of St. Louis.

The affair was agreeably chaperoned by Mr. and Mrs. Miller, Cedar Rapids, Iowa; Mr. and Mrs. Hudson, Mr. and Mrs. Williams, Mr. and Mrs. Smith and Mr. and Mrs. McQueen.

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