



09 Nov 1925

## The Missouri Miner, November 09, 1925

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Doc Fulton  
MS 24

# THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Vol. 12.

Monday, November 9, 1925.

No. 8.

## DUGA SENDS MINER INTERESTING LETTER.

Former Miner Editor Writes  
Article on the Remelt Game.

Los Angeles, Calif.  
October 23rd, 1925.

Missouri Miner,  
Rolla, Mo.

Dear Editor:

Although this letter is not a fairy tale, it shall begin with "Once upon a time."

Once upon a time I had the honor of being editor of The Miner. A little honor, a little gold shovel, and a great deal of grief was my pay for the job. The grief was due mostly to lack of contributions with which to fill those few small pages. From the space devoted last year to dances and jokes, I take it, last year's editor was up against the same problem. The editor must bear in mind that the alumni are just as interested in The Miner as the men in school and so make up his paper as to make it attractive to both. It is with shame that I, who have gone thru it, admit that years have slipped by without contributing a single line of "filler." Had it not been for an alumni get-together here a short time ago it is hard to tell how many more years might have passed without my doing my bit. And even now I rather hesitate, for Dr. Barley said I was deficient in English. He is right. Still I am able to make the men under me understand, so even if this letter is not good English I hope the reader can dig out the thoughts it contains. If in doubt call on Prof. Dean. He is a man who understands the student's mind regardless of what the student says.

Although I am now located in Los Angeles where a run dial is of service the year 'round, this letter will not be in the nature of the "Round the Sun Dial" column which some of the profs and boys of my time at Rolla may remember. It is hoped that it will be more seriously received and that it may bring to light a field of endeavor hitherto little thought of at M. S. M. Due to the nature of my work for the last six or seven years I

Continued on Page Two.

## ARMISTICE DAY PROGRAM.

Classes will be suspended in the morning, and the program outlined below followed out:

8:30 a. m. Formation of the Battalion at the Gymnasium.

8:30-9:30 Practice drill.

9:00 March to the intersection of Pine and 6th Streets.

9:30 Start of the parade north on Pine Street to the school.

10:00 Formation for review on the football field.

Review of the Battalion by the Director and such other persons as he invites to accompany him.

In the event of inclement weather, the Battalion will be formed in the Gymnasium at 8:30.

Attendance is required of all members of the R. O. T. C. Regular classes will be held in the afternoon.

## FOR THE WASHINGTON GAME.

By action of the Faculty, Saturday, November 14, will be a holiday, to allow all students to attend the football game with Washington University. The special rule regarding absences before and after vacations will apply to absences incurred on Friday, November 13. This means that an absence on Friday will carry a negative hour.

## HAVING HARD WORK-OUTS.

With prospects of a trip into the Iowa College district and perhaps a second journey in the vicinity of Kansas U. and Kansas Aggies, the wrestling squad have been given an incentive to fight for places on the mat team.

Coach McCanless considers this year's squad as one of the most promising arrays of material he has seen during the past three years. There will be a real scrap for positions representing M. S. M. abroad and at home in the sport of headlocks and chanceries, and we can rely on "Mac" to turn out the best team possible.

## WIN A TURKEY.

Why buy a turkey when one can be won at the big Junior class Turkey Shoot?

## MINERS DETERMINED TO BEAT WASHINGTON

### Open Date Last Week

### Gives Team Needed Rest

Approaching the big game of the Miner football season, McCollum's proteges are getting primed for the green of Washington University. All of the regulars are approaching top form for vanquishing the Piker horde who consider their present team one of their best elevens in recent years.

Jimmy Lemon suffered a torn lagament in his knee as a result of the St. Louis U. game but he has hopes of taking the field next Saturday at Francis Field. Lee, Ledford, and Thomas, comprising the remainder of the Miner's "Four Horsemen", are being groomed to trample on the Pikers with iron-clad hoofs that will leave a lasting impression.

Captain McBride and Ray Johnson are laid up at present but they are almost certain of upholding the Miner's forward wall against the Higgins clan.

Of the two contestants, the Miners have a more impressive record, with a lone defeat by the Missouri Tigers as the only blot on their escutcheon. The Pikers to date have failed to turn in a victory but have forced every team to fight for every victory. Iowa State faced defeat by the Pikers until the last quarter when the Pikeaway quarterback aimlessly tossed forward passes which the Ames team intercepted for a last minute victory. The Oklahoma Aggies were forced to accept a scoreless tie and Drake scored a lone touchdown against the Washington lads.

An interesting sidelight on the game is the fact that Coach Higgins and Cocah McCollum both played wing positions on Penn State in 1919, when the Nittany Lions were feared thruout the eastern gridirons.

This year's annual fracas promises to be a worth-while battle, with the Miners facing their best chance to score a victory over the St. Louisans in recent years. We need not urge you to attend this time-honored battle as we know every Miner cohort will be there next Saturday craving a celebration-giving result.

Give 'Em Hell Miners!



Continued from Page One.

shall take as the text for this letter the "Remelt Game."

The "Remelt Game" is the reverse of football. In football we start with good material and end up in a scrap. In remelt we start with scrap and end with good material. There is an old saying, "silk purses cannot be made from sow's ears." Like many other things not done years ago, today it is. The remelting of scrap, commonly known as junk, has evolved from a small haphazard business to a large scientifically conducted industry. It is true that the war had a great deal to do with bringing this about, but it is the writer's opinion that the demand of business to conserve and to utilize waste materials played an equal part with the war in the development of this industry. In fact, it was not until after the war that many concerns became convinced that scientific methods and technically trained men were a necessity rather than just a sales talking point. The result is another field opened to not only the analytical chemist but also the chemical, metallurgical, mechanical, and electrical engineers.

When we jokingly refer to our friend's auto as a pile of junk we little know how near the truth we speak. The iron and steel used in the car was made from scrap iron, the brasses and bronzes practically all are made from junk brass and scrap copper, the aluminum castings, at least fifty per cent remelted aluminum, the battery from rerun battery plates, the babbitt bearings from babbitt removed from an old wreck, the seat coverings and top from reworked waste materials, and the booklet telling you what to do when she stops is made of paper made from rags and printed with rerun type metal. That is what we get when we buy a "New" car.

The reducing, remelting and refining of scrap metal alloys and metallic drosses may be divided into two main groups, namely, the ferrous and the non-ferrous alloys. It is with the non-ferrous alloys that I shall deal, for it is this group which has opened up the new field.

The non-ferrous alloys may be divided into four major groups, namely, red, white, aluminum, and zinc base alloys. There is a certain amount of overlapping of groups, but as a rule, the division is quite pronounced. The red alloys are copper base, that

is, copper is the predominating metal. This group includes copper ingot and the many formulas of brass and bronze. The white alloys are those of either lead or tin base. In this group are caulking, lead, battery or seven per cent antimonial, type metals, babbitts, and solders. The aluminum group consists chiefly of number 12 or casting aluminum, Lynite which is a special casting alloy, and number 1, or rolling and spinning metal. In the zinc group we have rerun spelter and die casting or white brass metal.

It is not my intention, at this time, to go into detail concerning the above alloys as to composition or equipment and methods of manufacture. My sole purpose is to bring to your observation a business which, though at first only junk, has evolved to a highly scientific one, thus opening a field for men of M. S. M.

When I look back now to those happy days at M. S. M. when we, as upper classmen, used to kid the frosh about brass mines, I have to laugh at our own ignorance, for our knowledge of brass began and ended with the one fact that brass was not mined. There are a great many formulas for brass and bronze but with few exceptions, these are only modifications of several standard ones such as red brass, yellow brass, and bushing bronze. Standard red brass is 85 per cent copper, 5 per cent tin, 5 per cent lead, 5 per cent zinc. From that we have brasses ranging from 82 per cent to 87 per cent copper, from 2 per cent to 7 per cent tin, from 3 per cent to 6 per cent lead, and running up as high as 12 per cent zinc. Standard yellow brass is 65 per cent copper, 35 per cent zinc. There are some yellow brasses with a small amount of either tin or lead, or both, replacing either copper or zinc. Bushing bronze is 80 per cent copper, 10 per cent tin, and 10 per cent lead. Variations from this may contain a small percentage of zinc, although the presence or absence of zinc is often used as the distinguishing feature between brass and bronze. There are a number of special bronzes such as bell metal, coin, and railroad which bear a relationship to bushing bronze, and a number such as monel metal, and aluminum and manganese bronzes which, though called bronze, have special compositions and properties and bear a diminished relationship to the other

Continued on Page Nine.

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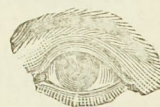
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**ARMISTICE DAY CELEBRATION.**

Armistice Day this year will be celebrated as it has been in the past by a parade of all the military forces thruout the country. Wednesday morning, the Reserve Officers unit at the Missouri School of Mines, together with the ex-service men in school, will go on parade and furnish a patriotic demonstration proper to the occasion. The parade will be assembled on the campus at nine o'clock and will consist of a march thru the business district of town and will terminate in a review on Jackling Field. (See program in this issue.)

That nite, there will be a benefit picture at the Lyric for the support of the Booster Club. This picture is Robert W. Chambers' famous "America"—one of the screen hits of today. Show your loyalty to the men on the team by seeing this picture. You will receive a just return from your money, and will, in turn, provide means for the help of the deserving men on the football team that is going to beat Washington!

**MARRIED AT WAUKEGAN.**

Ivin McLaughlan and Miss Anna Wilson, two well known and highly esteemed young people of our city, on Tuesday of the past week were united in marriage at Waukegan, Ill.

The groom is a son of Frank McLaughlan and since some time past has been employed at Kenosha, Wis., where he has a good position. The bride is a daughter of Mr. and Mrs. Hugh Wilson, of Staunton and recently went to Chicago, where she obtained employment. Mrs. McLaughlan is a vocalist of ability and also is well versed in piano, being a graduate of the Progressive Seicis. The young couple are both graduates of the Staunton High School and a friendship which had its inception during the school days culminated in their marriage last week.

Mr. and Mrs. McLaughlan arrived in Staunton on Wednesday of the past week and spent their honeymoon with relatives and friends here. They left on a late train Monday evening for Kenosha, Wis., where they will make their home.—Staunton, (Ill.) Star-Times.

Note: "Mac", ex-'27, has been a regular on the M. S. M. track team for the last two years.

**SIGMA NU DANCE.**

Last Saturday nite was the scene of a regular hobo dance that took

place at the Sigma Nu house. Some unique hobo costumes were to be seen and a true hobo aspect prevailed thruout the dance. Several novelty features helped to make the dance a success. Miss Leola Faudree, of Columbia, and Miss Hoops, of Crocker, were the out-of-town guests; and Dr. and Mrs. Barley, Mrs. Armsby, Mr. and Mrs. Griswold, Lieut. and Mrs. Walters, and Mr. and Mrs. Douglas, together with the house-mother, Miss Louise Studley, were the chaperons for the dance. The Varsity Orchestra furnished the musical talent and were the chief feature of the evening.

**ON TO BISMARK!**

A good suggestion, to help out the miner who is bumming, is to have the Frisco paint a large sign, "To Rolla", on all trains heading for the town. The reason for this is: One of the miners when coming from the St. Louis U. game hopped a passenger train, and, after riding several hours, began looking for his destination. The towns along the train's course did not look familiar, so he plucked up courage, crawled to the cabin and asked the engineer concerning his whereabouts. To his surprise, the miner learned that he had hopped a Missouri Pacific instead of a Frisco and found himself at Bismark, a town about seventy-five miles from St. Louis.

**RESERVE SEATS FOR  
WASHINGTON GAME.**

Two complete sections have been reserved for Rolla, between the 40 and 50 yard lines, at the Washington game. But you must get your sea's reserved before you go. The tickets are here. See "Spike" Denny, "Boots" Clayton, or "Thorny."

**HERE AND THERE.**

Oct. 2—Shurtleff, here.

Tie, 6-6.

Oct. 9—McKendree, here.

Miners, 40-6.

Oct. 17—Missouri U., there.

Missouri, 32-0.

Oct. 23—Kirksville, here.

Miners, 21-0.

Oct. 31—St. Louis U., there.

Miners 14-7.

Nov. 14—Washington U., there.

Nov. 21—Drury, there.

Nov. 26—Springfield, there.

Mr. and Mrs. Neal Ham, of Kansas City were guests of the Kappa Sigma Fraternity over the week end. Neal is now in charge of the Kansas City office of Ingersoll-Rand.



## FACULTY TALKS.

By John B. Scott.

Having been asked as an ex-faculty member and a subscriber to The Miner to contribute the first installment under the foregoing caption, I, therefore, make my bow, and trust my contribution will be more than a gesture. The readers of The Miner, I take it, are principally present students and ex-students of the school. It is to the former that I especially address my talk.

It is not mere gusto, it is not sycophancy when I say you are the pick of the country, for you are much above the average American. You would not be here if this were not true; your coming was, on the main, on your own initiative, even granting that your expenses are paid by your parents. Your brains, your ambition—the latter is in a large sense brains—are legacies from your parents and other ancestors. These legacies, like financial ones, may be misspent. The Quantity and Quality (note the capital letters) of this legacy are shown by the use you make of them both in and out of the schoolroom.

So much for my introduction in general.

Some time ago a man was asked to lecture before a body of wide-awake American college students. The speaker asked, "Gentlemen and ladies (he was one of those typical American educators who loves to embrace the ladies—in what he has to say, of course), what shall I talk about?" One student exclaimed, "Don't talk about anything but teach us the truth. That is what we are here for." This sensible answer must have been representative of the wishes of all the others, as they remained silent as to the question. That representative, had it been pertinent for him to have done so, might have elaborated negatively by saying, "Don't talk about dogmas, cant, platitudes, etc. These are in the lower strata of unscientific atmosphere."

In any and all of the talks you ask me to give, I shall attempt to discuss, in general terms at least, truth.

Now, what is, fundamentally, the object of any college student, or anyone else as to that matter, in his mental work? (And all work is primarily mental.) Is it not productive thinking as a means and as an end? It is not mere thinking that might be illustrated by comparing it to a man who is trying to chop wood with a meat axe having a handle only

six inches long. The labor here is not efficient as a means or as an end. Much of our so-called thinking is not productive as a means or as an end. Much of the mental work done by all of us is 90 per cent memory work and 10 per cent reason, when to make our thinking productive we would be compelled to reverse these figures.

Now I should like to go more into detail as to this point, particularly with reference to the methodology on the part of both teacher and student by means of which productive thinking is made possible, but the space allotted me is full and I fear my thinking will have to be characterized as unproductive.

In the language of the poet I close:

"A poor virgin, Sir,  
An ill favored thing, Sir,  
But mine." (In the Main.)

NEW DIRECTOR OF THE  
U. S. BUREAU OF MINES.

Although the Experiment Station of the U. S. Bureau of Mines has not been officially advised of it, it is reported that Scott Turner has been appointed head of the Bureau, his appointment to take effect on November 1, 1925.

The new director is a mining man whose experience has led him to Europe, Alaska, and the entire Western country of the United States, and Panama.

## WHO IS BOSS?

Who is boss, you or your money?  
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you are your own boss. And your  
money will work for you in the way  
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Winter 1925-1926.

Thursdays at 7:30.

Auditorium, Parker Hall.

Admission Free.

- November 12. DR. JAMES F. KEMP, Professor of Geology, Columbia University.  
A Summer's Camping Experience in Wyoming. (Illustrated.)
- November 19. PROFESSOR S. P. BRADLEY. The Family in the Social Order.
- November 26. THANKSGIVING. No lecture.
- December 3. DR. L. E. WOODMAN. Color and Color Blindness. (Experimental.)
- December 10. PROFESSOR H. H. ARMSBY. A Non-Technical Discussion of  
Railroad Location. (Illustrated.)
- December 17. DR. H. A. BUEHLER. An Underground Journey Across Missouri.  
(Illustrated.)
- December 24. VACATION. No lecture.
- December 31. VACATION. No lecture.
- January 7. PROFESSOR K. K. KERSHNER. Oxygen and the Air We Breathe.  
(Experimental.)
- January 14. PROFESSOR E. L. JOHNSON. Southern Negro Folk Songs. (With  
records.)
- January 21. SENATOR FRANK H. FARRIS, Member of Board of Curators.  
The Constitution of Missouri.
- January 28. END OF FIRST SEMESTER. No lecture.
- February 4. PROFESSOR C. R. FORBES. The Romance of Mining.
- February 13. PROFESSOR HERBERT WALL and PROFESSOR E. A. MAC LEOD,  
University of Missouri. Musical Program.
- February 18. PROFESSOR C. V. MANN. City Planning. (Illustrated.)
- February 25. PROFESSOR M. H. THORNBERRY. Missouri Clays.
- March 4. DR. C. H. FULTON. Curious Human Superstitions and Customs.  
(Illustrated.)
- March 11. No lecture.
- March 18. DR. H. L. DUNLAP. The Historical Development of Organic  
Chemistry. (Experimental.)
- March 25. PROFESSOR C. Y. CLAYTON. Metals in Every-Day Life.
- April 1. PROFESSOR G. W. STEPHENS, Professor of Economics, Washing-  
ton University. Present Social Forces and Their Significance.
- April 8. DR. G. A. MUILENBURG. Facts and Fallacies of Geologic Inter-  
pretation.
- April 15. SUPERINTENDENT B. P. LEWIS. Mental Yardsticks.

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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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Subscription price: Domestic, \$1.50 per year; Foreign, \$2.00. Single Copy, 8 cents.

Issued Every Monday.

## AN INNOVATION.

The bridge between faculty and student body is, in many institutions of higher learning, deplorable because of its magnitude. Because of frequent social gatherings at which both students and "profs" appear on an equal basis, the situation at M. S. M. is not altogether disagreeable. But there is room for improvement.

In an attempt to show that the faculty at M. S. M. really is humane, despite impressions received in the classroom to the contrary, a series of "Faculty Talks", relating to topics frequently omitted in technical lectures, is being prepared for publication in The Miner. Undoubtedly the faculty members and ex-faculty members who contribute to these "talks" will do their utmost to interest the student body as a whole, thus insuring the success of the series.

To inaugurate the series, we have asked a former faculty member of wide experience and general acquaintance to contribute the first installment. Judge John B. Scott, head

of the English department at M. S. M. for seventeen years, and always a booster for the school, has consented to make the first "talk". Look for it in this issue.

## THE COLLEGE PAPER.

Should a college publication be denied the privilege of free expression supposedly fostered in the modern university? The managing editor of an eastern college weekly was recently suspended from school for one month because he dared criticize the remark, "It is our duty to disregard the individual and turn out a blank college type"—very uncosmopolitan and extremely narrow-minded to come from a college professor.

A college paper, if it be more than a handshaking, booster-advertising, propaganda sheet of the faculty, should have a definite personality and not be labeled as merely a chronicler of campus news. It should seek to interpret the spirit and voice the collective opinion of the student body and faculty.

PAUL L. HOPPER.

## WASHINGTON IS NEXT.

Trampling the Billikens called for more than the usual display of pep. After collecting all the available wood to be pried loose, the gang retired to back of the athletic field and built a huge bon fire. Dr. Fulton appeared during the demonstration and suggested that if we would cease celebrating at 10 o'clock and return to classes, cuts for the preceding hours would be excused. A holiday has been promised if we put the crepe on Washington. Do we want it—let's get behind the team, gang, and shove it over. Everybody out rooting for the team on Francis Field, at St. Louis Saturday!

M. E. SUHRE.

## DROPPING COURSES.

Any students who wish to drop a course from their schedules without receiving a final grade of F must do so before Saturday, November 14. Courses are not officially dropped until a change schedule slip, signed by the proper faculty member, is ON FILE IN THE REGISTRAR'S OFFICE.

## SCHEDULE OF DR. KEMP'S LECTURES.

While at M. S. M. this week, Dr. J. L. Kemp, Professor of Geology at Columbia University, New York, will

speak as noted below:

Thursday, 3 p. m., "Some Structural Matters in Mining." All Junior and Senior Miners will be excused from other classes to attend.

Thursday, 7:30 p. m., General Lectures course, "A Summer Camping Experience in Wyoming." Illustrated.

Friday, 10 a. m., "A Famous Apex Case." All Junior and Senior Miners will be excused from other classes to attend.

Friday, 11 a. m., Mass Meeting, "Recent Trend of the Mining Industry."

## NEW ALUMNI ASSOCIATION OFFICERS.

President:

M. H. Thornberry.

Vice-President:

B. L. Ashdown.

Secretary:

K. K. Kershner.

Treasurer:

C. Y. Clayton.

Quite a few letters were received urging the Homecoming for next fall.

The officers of the Association are keeping in touch with the athletic department with the hope that a good football game can be scheduled in Rolla for next fall. Watch The Miner for further details.

## ALUMNI.

H. G. S. Anderson, '09, Consulting Metallurgical Engineer, with headquarters at Rolla, has just returned from a business trip to New York and other eastern points.

Walter "Horse" Dobbins, '10, who is Assistant Superintendent of the Leaching Plant of the Chile Copper Co., at Chuquicamata, Chile, is in the States on a visit. At present he is in Springfield, Ill.

George Easley, '09, has just returned from a business trip to South America. At present he is visiting his family at Lee's Summit, Mo.

C. E. Peterson, '16, is now associated with Imbrie and Co., Investment Bankers, in New York City.

Indirect word has come to us that Emilio Diaz, '10, died some time last summer at his home in Santiago, Chile.

"She is the dumbest girl I ever met."

"How come?"

"Why, she wanted to know how many quarters to a football game."

"That's nothing; mine wanted to know if a football coach had wheels."

—M. C. M. Lode.



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A Missouri co-ed school publishes this as one of the rules for the government of the Frosh: Girls of the freshman class shall wear their stockings so that the articulation between the femur and tibia in which the patella shares shall be protected from vicissitudes of weather and inconsistency of winds so that male students may keep their minds on their lessons.

"What kind of a woman do you want for the party?"

"Get me one that's good and lively. If you can't get me one like that, get me one that's lively."—Green Onion.

Said a shiek down in Wilmington, Del.:

"Fate's unkind to our sex, I am wel. For the girls wear men's clothes, B. V. D.'s and chapeaux; But what feminine duds can a fel?"

—Life.

About one hand of strip poker would send most co-eds home in a barrel.—Green Onion.

Bootlegger (to man fishing)—"Having any luck?"

Fisherman—"No!"

Bootlegger—"Try some of this on your bait."

Pours something from bottle over the worm on the hook and lowers it into the water. Soon a great splash is heard and the line is jerked up. The worm had a strangle hold on a catfish and was punching him in the eye with his tail. —The Kans. Guard.

Mr. Sniff (at the soda fountain): What will you take, Miss Guzum? They have all the up-to-date drinks here.

Miss Guzum: I think I'll try a glass of that "Pepsodent" that I see advertised so much. It sounds good, doesn't it?

John had taken her riding in his car, and just as he kissed her a tire blew out.

"Ococh, Jack, dear, she said, "how lucky that we didn't stay home. Father is such a light sleeper."

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FRIDAY

VIOLA DANA

IN

"THE BEAUTY PRIZE"

SATURDAY

BOOT GIBSON

in the Pentleton, Oreg., Roundup  
Picture

"LET HER BUCK"

SUNDAY AND MONDAY

RAYMOND GRIFFTH

IN

"FINE CLOTHES"

DEC. 10, 11, 12,

CHARLIE CHAPLIN

IN

"THE GOLD RUSH"

There With The Thrills.

He (ardently): Have you never met a man whose touch seemed to thrill every fiber in your being?

She: Oh, yes, once—the dentist.  
—Naion's Garden.

His Generous Bequest.

"I hear that Jones left everything he had to an orphan asylum."

"Is that so? What did he leave?"

"Twelve children." — Patton's Monthly.

Didn't Know the Game.

"What is the matter, my dear?" asked the slightly old-fashioned husband.

"I am a trifle puzzled," responded his equally old-fashioned wife. "I have been invited to a swagger party to shoot craps."—Louisville Courier-Journal.

No Prohibitionist.

He: Dear, every kiss just intoxicates me—won't you let me be a drunkard?

She: Well—er—yes; but on the condition that you won't mix your drinks.—U. S. N. A. Log.

Subscribe for The Miner.



### ANTI-HARD-PAN CLUB ORGANIZES.

In the olden days there was the Anti-Horse Thief Society organized to get rid of horse thieves. Today we have Anti-Tobacco, and Anti-Saloon but nowhere up to this time has there been an Anti-Hard-pan Society.

Hard-pan is what the geologists might call a young conglomerate. It is an aggregate of rock cemented together with clay. It's hard especially underfoot or when brought in contact with the human body.

Anyone who has played football knows that this material outcrops on Jackling Field in many places. If you have never discovered the above fact slip out to the field and run in your bare feet twice across the field. If you are not impressed with this, have a companion drag you across, or better just fall down. It's wonderful material for roads and foundations but not so good as a covering for an athletic field.

Now for the above mentioned society. It has been organized to find ways and means to cover Jackling Field with some soft earth. Write in sending any ideas you may have or better send a donation to the Anti-Hard-pan Club, Box 250, Rolla, Mo. All donations will be used to put the field in shape. There will be no overhead expense, it all goes underfoot.

### FREY TO GERLINGER CO.

M. L. Frey, formerly assistant research metallurgist with the Holt Tractor Company, Peoria, Ill., now known as the Caterpillar Tractor Company, has joined the technical staff of the Gerlinger Electrical Steel Casting Company, West Allis, Wis., as chief metallurgist and research engineer. Mr. Frey, together with Fred Grotts, of the Holt Company, have contributed to technical literature on heat treatment of cast iron and cast steels.

### ON THE GOLF COURSE.

Mac: Say, boy, are you a good caddie?

Caddie: Yes, sir, I am one of the best in Rolla.

Mac: Can you find lost balls?

Caddie: Yes, sir.

Mac: Well, you are hired. Find me one and we will start.

### BORN.

To Mr. and Mrs. Bruno Rixleben, '23, at Jonesboro, Ill., a nine pound boy, Thomas Bruno, on November 4. Congratulations!

### COL. JONAH SPEAKS.

It was a very interesting lecture, accompanied by complete and appropriate illustrations, which was presented to the student body at mass meeting Friday by Col. F. G. Jonah, Chief Engineer and Assistant to the President of the Frisco railroad. In his talk on the history of the development of transportation Col. Jonah pointed out the close relationship existing between civilization and transportation. The civilization of today could not exist without our highly developed system of transportation, and the power and wealth of a nation is measured by the amount of its inter-connection.

Col. Jonah concluded his remarks

by saying that man, in his search for better means of transportation, has conquered the land, the sea, and the air. Great strides have been made but the work of establishing a complete system of transportation is far from finished.

Radio fans, tune-in on WFAA at Texas, on Friday night at 11 and hear Virgil L. Whitworth, '23, entertain on the xylophone. Who says that the courses at M. S. M. should be broadened!

Prof. Orten recently received a very interesting letter from Leo E. Shire, '25. His address is Apartado 130, Cartagena, Colombia, S. A.

### FRESHMEN, SOPHOMORES, JUNIORS, SENIORS, ATHLETES DO YOU KNOW?

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Continued From Page Two.

bronzes.

In the manufacture of red alloys from scrap, due to the variations in size, composition, and impurities of the scrap, the equipment must differ from that used in copper refining. This condition gives the metallurgist and mechanical engineer a chance to do his stuff, for it is up to him to devise methods and equipment for the removal of such impurities as iron, aluminum, nickel and silicon, to reproduce the physical as well as chemical properties of alloys made from virgin metals and to do so with a minimum of loss and expense. Likewise, due to the varying compositions of scrap, a chemist is needed both for the scrap and for the finished product.

I have no exact figures on the quantity of brass made from scrap but the proportion to the total output of brass is so large as to be almost unbelievable.

There are so many white metal alloys, that is, lead and tin base, that I shall not attempt to describe them. The largest of these in tonnage is 7 per cent antimonial lead for battery plates. In and around Los Angeles alone over 200 tons are scrapped each month and all of these return to plates. Due to the acid present and to the fact that the plates are not roasted before reduction the equipment must be modified from that used in the lead smelter. In the case of type metal practically all is made from scrap type and type drosses by reduction, purification, and the addition of new tin and antimony. This, also, applies to the many grades of babbitt with the exception of the highest grades of tin base or genuine. For solder only a limited amount of scrap may be used.

By far, the greatest quantity of aluminum goes into number 12 casting. This is from six to eight per cent copper, balance aluminum. In remelting, the chief problems are the reduction of such impurities as zinc and iron, always present, and the retarding of oxidization. These are more difficult than they would seem.

The zinc alloys present practically the same problems as aluminum but due to a difference in properties require different equipment.

At the present time, all the larger and most of the smaller plants engaged in the remelting of scrap and waste materials employ technical men not only to run analyses but to design and operate equipment which

will diminish losses and utilize previously unused waste. The few plants without technical men have begun to realize that without scientific equipment and operation they cannot compete.

A plant was recently put in operation here for the recovery of tin from cans. There are many other things which some day will be salvaged from the millions of tons of waste hauled to dumps each year. It is up to technical men to bring about this saving.

This letter is written in the hope that it will inspire alumni to write to The Miner. If it does that, it will have served a good purpose aside from what little information it might contain.

Wishing M. S. M. and The Miner a big year, I am,

Sincerely yours,

JOSEPH B. DUGA, '19.

#### MORE TAILINGS.

Well, about Wednesday the campus started to recover from the game. Even the profs went to sleep in classes on Monday (at least, they wanted to). Why, a sophomore even went to sleep in Prof. Turner's chemistry class—something which is probably unparalleled in campus history.

Speaking of chemistry—here's an Irish one. During a discussion of the green-poling copper process, one worthy son of Erin asked "if that meant that the pole was painted green." I guess this explains why no Irishman ever becomes a metallurgist.

WHEN are these co-eds going to learn to keep off the grass? and also give us half the side-walk?

(Mr.) McNerney has a new tie.

(Miss) McNerney has the same old Couch.

When we win the Washington U. game, we can husk some corn, if the supply holds out.

They got the play started after a while. Seventeen girls came up to try out for parts—and twenty-five Miners came up to try out for dates.  
—KEN.

Have you noticed that sign on autos: "If you can read this you are too darn close?" Well, the same sentiment now appears on garters worn by flappers.



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