



26 May 1916

## The Missouri Miner, May 26, 1916

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M. S. M. Library  
City

# THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Mo.

Vol. 2, No. 36.

Friday, May 26, 1916.

Price 5 Cents

## Miners Trim Washington 69-52.

The Miners won their second, and last, track meet in 1916 when they defeated the Washington U. team, of St. Louis, by the decisive score of 69-52. The Miners took practically all the points in the field events—35 in all—while Washington only captured 10. In the track events the Miners captured firsts in the 100-yard dash, the mile run, the 220-yard hurdles, and the two-mile run. They took second place in the 440-yard dash and in the 220-yard hurdles; and third place in the 120-yard hurdles, the half mile, and the 220-yard dash.

It was an ideal day for a track meet, and a large crowd turned out to see the events. The 100-yard dash was a "corker." Im-lay barely nosed out Pemberton, the Washington crack, doing the century in the fast time of 10 seconds.

Stites and Kammerer, of Washington, took first and second place over the high sticks, while Scruby finished third. Murphy had things his own way in the mile. He ran the distance in the fair time of 4:52 2-5. He took his time, and that accounts for the rather slow time (no competitive, so to speak.) Pemberton led the field in the 440-yard dash, and was never headed, altho Herman tried hard to cut down the lead. The half-mile was conceded to Brady, the Washington entrant. He negotiated the distance in 2:09 2-5. Gill nosed out a Washington man for third place.

Im-lay again showed his heels to Pemberton in the 220-yard dash. He ran it in the remarkable time of 22 3-5 seconds. Pemberton came in second, and Good-

*Continued on Third Page.*

University of Missouri.

## School of Mines and Metallurgy.

Friday, May twenty-sixth,

nineteen hundred and sixteen,

10 o'clock A. M.

### PROGRAM.

Music, March,	-	-	"More Fraternity,"	-	-	Fillmore
			FALKENHAINER'S ORCHESTRA.			
Invocation,	-	-	-	-	-	REV. C. S. HANBY.
Music, Overture,	-	-	"Concert Scene,"	-	-	Kiesler
Commencement Address,	-	-	-	-	-	"The Business of Mining,"
			W. R. INGALLS,			
			Editor of the Engineering and Mining Journal.			
Music, Serenade,	-	-	"Love and Idleness,"	-	-	Macbeth
Address,	-	-	-	-	-	ALBERT ROSS HILL, LL.D.
			President of the University.			
Theses,	-	-	-	-	-	Read by Title Only
Conferring of Degrees,	-	-	-	-	-	By the President of the University
Music, Selection,	-	-	"Blue Paradise,"	-	-	Kiefert
Benediction,	-	-	-	-	-	REV. C. S. HANBY
Finale,	-	-	"March Federation,"	-	-	Klohr

### THESES SUBMITTED IN 1916.

A Study of the Stopping Efficiency and Ore Transportation of the Arizona Copper Company at Morenci, Arizona,	-	-	ROBERT STANLEY BURG.
Land Drainage in Central Iowa,	-	-	ERNST L. CHAMBERLAIN.
Oils and Flotation,	-	-	CHARLES YANCY CLAYTON AND CLARENCE EUGENE PETERSON.
An Investigation in Treating a Gold Ore from Custer, South Dakota,	-	-	THEODORE SAUNDERS DUNN,
Report on the Lucky Bill Mine, Grant County, New Mexico,	-	-	WALTER GAMMETER.
Pneumatic Ore Concentration,	-	-	ROBERT WINTERS JOHNSON AND WALTER WILLIAM WEISSBACH.
Leaching Flue Dust,	-	-	EDWIN ALEXANDER KAYSER.
The Effect of Temperature Upon the Crystal Size and Physical Properties of Iron and Steel,	-	-	E. J. McNELY.

- The Development of a Copper-Silver Ore Body, - COLWELL ARBA PIERCE.  
 Notes on Mine Operations of the American Zinc Company of Tennessee, - HOMER KENT SHERRY.  
 A Report on La Catabambas Auraria Mining Company, - HECTOR J. BOZA.  
 Underground Mining Methods of Utah Copper Company, THOMAS S. CARNAHAN.  
 Leaching Experiments on an Arizona Copper Ore, GUNNARD EDMUND JOHNSON.  
 Development of the Flotation Process for Concentrating Copper and Iron Sulphide Ores, - H. T. MARSHALL.  
 The Cost of Producing Electricity at the Hamilton, Missouri, Light and Power Plant, - BERNARD WILLIAM ADAMS.  
 Tars from Cannel Coal, - J. C. INGRAM, O. L. LUMAGHI AND F. GROTTIS.  
 A Wet Process for the Recovery of Mercury, - ROBERT G. SICKLY.  
 Construction and Maintenance of Kansas City Boulevard Pavements, - R. R. BENEDICT.  
 Economic Design of Concrete Steel Highway Bridges, - T. P. MCCAGUE.  
 Method and Costs of Rock Excavation Inlet Swamp Drainage District, Lee County, Illinois, - ARCH W. NAYLOR.  
 An Investigation in Portland Cement, - BYRON L. ASHDOWN.  
 Mining Methods at Calumet and Arizona Mining Company, - J. L. HEAD.  
 Comparison of Operating Expenses and Capital Expenditures of Two Different Types of Boiler Rooms Covering Extensions Expected During The Next Twenty Years, - G. H. BOYER.  
 Some Chemical Problems in Geology, - REGINALD SCOTT DEAN.  
 Flotation of a West Joplin Slime, - J. S. HOFFMAN AND J. J. DOWD.  
 Comparative Tests of Hammer Drill Bits, - H. H. VOGEL.  
 Preliminary Report on The Property of The Ruby Copper Company, - C. A. PIERCE.  
 An Investigation in Portland Cement Concrete, - DON H. MORGAN.  
 The Determination of the Method For Milling a New Mexico Ore, - A. X. ILLINSKI.  
 Design of a Plant For Concentrating Phosphate Rock, - N. L. OHNSORG.  
 Problems in Flotation, - W. H. MCCARTNEY, JR.  
 Milling Experiments on a Western Ore, - H. E. KOCH AND E. B. WEIBERG.  
 Flotation of Zinc Carbonates and Silicates, - G. ERSKINE AND Y. KLEPEL.  
 A Study of a Certain Filled Sink Ore Deposit, - A. Z. DUNHAM.  
 Design of a Concrete Steel Bridge over Dry Fork, - E. V. DAMOTTE.

#### Where They Will Be This Summer.

- |  |  |
|--|--|
| G. E. Ebmeyer, Rolla, Mo.  | Clem Hippard, Bisbee, Ariz.                            |
| J. K. Walsh, up to June 10th,<br>3507 Humphrey, St. Louis; after<br>June 10, Morenci, Arizona. | Thos. L. Dawson, 3118 E. 10th<br>St., Kansas City, Mo. |
| T. C. Gerber, 701 Fla. Ave., S.<br>E., Washington, D. C.                                       | Osher Goldsmith, Joplin, Mo.                           |
| R. L. Massey, Bisbee, Ariz.  | Jerome Flanders, Hill City, S.<br>D.                   |
| J. R. Casanovas, Baracos, Cu-<br>ba.   | S. C. Rucker, Keytesville, Mo.                         |
| H. S. Teas, Freeport, N. Y.  | Wm. Nolte, Rolla, Mo.                                  |
| S. A. Beck, Rattlesnake, Ariz.   | H. J. Schmiermeyer, Omaha,<br>Neb.                     |
| F. P. Shays, Bisbee, Ariz.   | H. A: Horner, Omaha, Neb.                              |
| C. C. Wilson, Lexington, Mo.   | J. T. Young, Metcalf, Arizona,<br>Box 81.              |
| E. Ashlock, 4235 Blaine St.,<br>St. Louis.   | C. S. Epperson, Joplin, Mo.                            |
| J. J. Doyle, Rolla, Mo.  | Clay Halley, Auxvasse, Mo.                             |
| Fritz Heman, 228 South 4th<br>St., Fort Dodge, Iowa.   | J. S. Crenshaw, Rolla, Mo.                             |
| L. C. Skeen, Big Stone Gap,<br>Va.   | Wm. H. McCartney, Joplin,<br>Mo.                       |
| F. G. Quiroga, Nocoziari, So-<br>nora, Mexico.   | J. L. Head, Doe Run Lead Co.,<br>Rivermines, Mo.       |
| J. G. Reilly, Joplin, Mo.  | W. D. Gray, Cobalt, Canada.                            |
| A. T. Dunham, Butte, Mont.   | Larry Maher, Desloge, Mo.                              |
| L. W. Ehler, Arkansas.   | R. Chavez, Chihuahua, Mexico.                          |
| O. E. Stoner, Chester, Neb.  | L. Kaplan, Flat River, Mo.                             |
| E. Murphy, Vinita, Okla.   | M. F. Bowles, 3802 Linden: E.<br>St. Louis, Ill.       |
| W. Pryor, Bethany, Mo.   | L. B. Benton, 1730 Sixth Ave.,<br>Ft. Worth, Texas.    |
|  | H. F. Valentine, 1100 East 8th                         |

St., Topeka, Kansas.

H. W. Doennecke, 2320 Fulton  
Ave., Davenport, Iowa.

H. F. Allison, 919 Miners Bank  
Bldg., Joplin, Mo.

M. L. Terry, 315 W. 3rd St.,  
Webb City, Mo.

J. P. Gill, Montgomery City,  
Mo.

F. H. Geib, Denver, Colo.

R. O. Shriver, 201 S. W., 5th  
St., Newton, Kansas.

K. Wilson, Globe, Ariz.

P. Kern, Billings, Mont.

J. T. Fleming, 4246 Flora Blvd.,  
St. Louis, Mo.

H. S. Shore, Chillicothe, Mo.

H. F. Scruby, Chillicothe, Mo.

H. A. Ambler, 4050 Russell  
Ave., St. Louis, Mo.

#### The Sun-Dial.

Have you seen the new sun-dial, immediately in front of the entrance to Norwood Hall. This is the gift to the School of Mines of the Class of 1916. It is of Missouri red granite, handsomely polished, on a concrete base. The figures are cut in the stone, and the top is surmounted by a bronze pointer. On one side of the pedestal, in bronze, is the seal of the school, and along the top, on either side, are chiseled the words "Class of 1916."

The Miner wishes to congratulate the graduating class on its excellent choice of a gift, and to assure the class of the deep appreciation of the school for such a splendid monument. It will certainly keep in mind the activities of the graduates during their four years here, and they will long be remembered as the best and biggest class the school has yet turned out. We only hope that more men of the calibre of those graduating will come to the School Mines, and that other classes will strive to equal the record made by them.

L. A. Delano, '04, Bonne Terre;  
S. P. Lindau, '12, Herculaneum;  
W. C. Hogoboom, '14, Potosi,  
Mo., attended the A. I. M. E.  
banquet in St. Louis Saturday  
night.

## Students,

We want to thank  
you for your patron-  
age this year.

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Phones 78 and 279.

### Mr. Student:

Are you a Rooter or a Hooter? Better be a Rooter than a Hooter. A smile costs no more than a sneer and wins more games. A pat on the back requires less energy than a kick in the same spot and makes more friends. You may say to yourself, "merit has no show nowadays," but try it and see. Leaders are ordinary persons with extraordinary determination. The difference between you and your superiors is "APPLICATION"—they strive for what you wish for.

Use your intelligence, procure for yourself NOW what might be impossible to get later, a LIFE insurance policy would be issued to you now, but refused later when you take up a more hazardous occupation, think it over, then come and talk it over with your friend, B. H. RUCKER.

### The Rolla Herald

Established in 1866

If you want the news read the HERALD. Subscription \$1.00 per year.

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Charles L. Woods, Publisher.

### The Elite

will handle Special Fruit Ice Cream on Saturday evening and Sunday. Special orders solicited and delivered at all times.

### Miners Trim Washington 69-52.

*Continued from First Page.*

man took third place. It was "all Murphy" again in the two-mile. The little Irishman was not to be denied, and finished the last lap with a burst of speed that put his opponents far in the rear.

Washington came back strong in the half-mile relay. The last 220 yards of the race was a thriller. Imlay, with a ten to fifteen yard handicap, all but beat out Pemberton. Pemberton's lead was too great, however, and the race was lost to the Miner total in the fast time of 1:31 1-5.

In the field events Joe Wilson took first in both the shot and the discus. He hurled the plate over a distance of 100.2 feet. He put the ball 36 feet 8½ inches. Imlay took second in the shot put. Scruby and C. E. Peterson tied for first on the pole vault, with the bar at 10 feet 6 inches. Scruby also won the high jump, with a leap of 5 feet 7 inches. C. A. Peterson was second. Imlay took the broad jump with a leap of 20 feet 10½ inches. McSorley, of Washington, took second, and C. A. Petersoon took third.

The meet was run off in exactly two hours, and the Washington team was able to get back to St. Louis on the late afternoon train.

The list of events and the winners are as follows:

#### The Summary:

100-yard dash—Imlay, Rolla, first; Pemberton, Washington, second; McSorley, Washington, third. Time, 10s. flat.

120-yard hurdles—Stites, Washington, first; Kammerer, Washington, second; Scruby, Rolla, third. Time, 17 1-5s.

Mile run—Murphy, Rolla, first; Leopold, Washington, second; Neuman, Washington, third. Time, 4m. 52 3-5s.

440-yard dash—Pemberton, Washington, first. Heman, Rolla, second; Harvey, Washington, third. Time 54 2-5s.

220-yard hurdle—Brazill, Rolla, first; Aid, Rolla, second; Stites, Washington, third. Time, 27s.

Half mile run—Brady, Washington, first; Neuman, Washington, second;

Gill, Rolla, third. Time, 2m, 9 2-10s.

220-yard dash—Imlay, Rolla, first; Pemberton, Washington, second; Goodman, Rolla, third. Time, 22 3-5s.

Two-mile run—Murphy, Rolla, first; Greene, Wasington, second. Time, 11m. 11 2-5s.

Half-mile relay—Washington, first. Time, 1m. 31 2-10s.

Pole vault—Scruby, and Peterson, Rolla, tie for first; Mitchell, Washington, third. Height, 10 ft. 6in.

Discus—Wilson, Rolla, first; Bubb, Washington, second Hackman, third. Distance, 100 2-10 ft.

High Jump—Scruby, Rolla, first; Peterson, Rolla, second; Mitchell, Washington, third. Distance. 5 ft. 7in.

Shot put—Wilson, Rolla, first; Imlay, Rolla, second, Hackman, Washington, third. Distance, 36 ft. 8½ in.

Broad jump—Imlay, Rolla, first; McSorley, Washington, second; Peterson, Rolla, third. Distance, 20 ft, 10½ in.

Starter and referee—J. B. Cole. Judges of finish, Profs. Clayton, Gottschalk, Harris, and Mr. Head. Timers Profs. Ingram, McCandliss and Frame. Field judges—Profs. Risher, Hinsch and Dobie. Clerk of course—Ebmeyer. Scorer—Weiberg.

### Miners 19, St. James 6.

Coach Dennie called on the St. James baseball team to fill in the cancelled Arkansas U. date. They came down, led by "Doc" Ousley, and judging from the physique of Hammer, their pitcher, the Miners seemed to be in for it.

Hammer proved easy, and was knocked out of the box in about four innings. "Doc" Ousley replaced him, but his good work for "nix," the damage had been done. Bates, Kid Wilson and Bill Kamp were the big sluggers of the afternoon. Almost everybody got a hit or two, and that, aided by St. James' errors, enabled the Miners to score nineteen runs.

Zeuch pitching for the Miners, had a poor get-away, but steadied down, and except for a few costly errors by his teammates, should have scored a shut-out. He fanned about ten men.

This game concluded the 1916 baseball season for the Miners.

Batteries: M. S. M., Zeuch and K. Wilson; St. James, Hammer, Ousley and Kroner. Umpire, Anderson.

**THE MISSOURI MINER**

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

Entered as second class matter April 2, 1915, at the post office at Rolla, Missouri, under the Act of March 3, 1879.

**STAFF.**

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J. K. Walsh, - Associate Editor  
C. W. Hippard, Assistant Editor  
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**Asst. Business Manager**

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**Reporters:**

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C. W. Hippard, - Junior Class.  
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J. S. Webb, - Freshman Class

Published Every Friday.

Rates: { Single Copies, - 5 Cents  
          { Per Month, - 15 Cents  
          { Per Year, - \$1.00

**New Captains.**

C. A. Peterson and J. G. Wilson were elected captains in track and baseball respectively. In Peterson the Miners have a track man of exceptional ability. His favorite events are the high and broad jump, but he can do a credible job of hurdling and of hurling the shot and discus.

"Joe" Wilson needs no introduction. He is an all-around athlete, and baseball is only one of his branches. "Joe" will have most of the 1916 baseball squad to help him build up the 1917 team. With several more pitchers, the bunch will be hard to beat.

Prof. and Mrs. L. E. Garrett left Monday in their Ford for Maryville, Mo., From there Prof. Garrett will drive on to Sheridan, Wyoming to spend the summer. Mrs. Garrett will remain in Maryville for about three and will then go on to Sheridan.

**ELEPHANT BUTTE IRRIGATION DAM IS COMPLETED.**

Blocks Canyon of Rio Grande, Forming Greatest Storage Reserve in World.

By Associated Press.

Elephant Butte, N. M., May 13.—Work was completed here today on the Elephant Butte Dam, a United States reclamation project, which, by damming the Rio Grande River, forms the greatest storage reserve in the world. Construction began five years ago. The reservoir will feed an irrigation system that will water 185,000 acres of land in New Mexico, Texas and Mexico. The dam blocks a canyon of the Rio Grande, 120 miles north of El Paso.

It is the fifth of the Government's big irrigation projects and will store the entire flow and flood of the river. The reservoir will hold 115,000,000,000 cubic feet of water, which, reclamation service experts say, would cover the State of Delaware to a depth of two feet.

**DAM 318 FEET HIGH.**

The dam stands 318 feet high and is 1574 feet long. It provides a roadway across the canyon 16 feet wide and at its base is 235 feet thick.

Territory to be irrigated by the reservoir lies in four valleys. For each of these a diversion dam and main canals are being constructed. Twenty-five thousand acres of the land is on the Mexico side of the river, near Juarez. More than half of it is virgin, with a small acreage owned by the Government.

The government before beginning construction of the dam laid out a town equipped with modern conveniences, and electric lights, water and sewerage; stores, schools, hospitals, hotels and a theater. At times as many as 4000 persons lived in the town, whose government was entirely under the jurisdiction of the engineers. A railway was constructed through 13 miles of rough country to connect the town with a main line railroad.

**Mrs. J. B. ELLIS**

has leased and opened the

**GRANT HOTEL**

and will make it a Home for the Students and their friends

During Commencement

**FOR THE**

**Best to Eat  
and Wear**

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**AT**

**Baumgardner's  
Studio.**

Mrs. G. C. Marsh, of St. Louis, arrived Thursday to witness the graduation of her son, E. G. Deutman. Mrs. Marsh was accompanied by her niece, Miss Adrienne Klinge.

## Good Bye, Boys!

To those who have graduated, Good Luck and Best Wishes.

To those who hope to return, a Pleasant and Profitable Vacation.

## Rolla's Theatre

FRED. W. SMITH.

### Try Our Groceries

and be convinced of

THEIR QUALITY.

## J. E. MORRIS Grocery.

Phone 168.

WHY NOT COME DOWN to the

## Baltimore Hotel,

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Our service is first-class, and prices reasonable.

## Preparedness!

Come in and get cleaned up before going home. Get your Hair Cut, Shampoo, Shave and Massage. You will look better; your girl will like you better, and not only that, but you will feel better.

## City Barber Shop,

C. M. Bunch, Prop.

TRY OUR SUNDAY SPECIAL ICE CREAM

## The Delmonico

W. E. HANS, Prop.

### Locals.

An aquatic meet with Washington D. swimmers is a possibility for the winter season of 1916-1917.

Mr. Victoriano Elicano, '09, is mining engineer with the Keystone Mining Company, Aroroy Masbate Sorsogon Province, P. I.

L. K. Anderson, of Springfield, is among the Commencement visitors. He is a guest of his son Sidney Anderson at the K. A. house.

O. A. Randolph, '11, receives his P. H. D. degree in Physics from the University of Illinois this year and will teach in the University of Colorado next year.

Dr. and Mrs. J. W. Barley left this week for Montgomery City, Mo., to visit their parents. Dr. Barley has been engaged to teach a summer course at the Maryville Normal.

James Hopkins, '13, and L. H. Brooks, Jr., '13, have reached their destination in Africa. They will be mining engineers for Societe Internationale Forestiere et Miniere du Congo at Kinshasa, Congo Belge, care of Forminiere-Baleyru, West Africa. In reaching their destination they crossed the intersection of the Equator and Greenwich Meridian on March 21st just a few minutes after the sun had crossed the Equator. The sun's declination was 73 degrees 57 minutes.

H. C. Parmelee, Western Editor of Metallurgical and Chemical Engineering, and a member of the Board of Trustees of the Colorado School of Mines, at Golden, Colo., was the guest of Prof. J. C. Ingram, of the School of Mines of this city, Sunday and Monday. Mr. Parmelee, who had been touring the east, stopped off to see Prof. Ingram, and also to look over the Missouri School of Mines. He expressed himself as being greatly pleased with the institution, and as he expressed it, "the school has a live faculty."

### Alaska Smashes Records.

The value of the mineral production of Alaska in 1915 amounted to \$32,854,229—\$13,788,563 more than the value in 1914 and far more than that of any previous annual output during the 36 years that mining has been carried on in the Territory. The collection of mineral statistics of Alaska for 1915, just completed by Alfred H. Brooks, of the United States Geological Survey, shows that the value of the gold produced during the year amounted to \$16,702,144, copper \$15,139,129, and silver \$543,393. Tin, lead, antimony, marble, gypsum, and a small amount of petroleum and coal bring the total value of Alaska's mineral products to \$32,854,229.

Since 1880, when mining first began in Alaska, the Territory has produced gold, silver, copper, tin, and other minerals to the value of \$300,953,751, the gold production alone to the close of 1915 amounting to \$260,858,943. Of this gold, \$187,192,992 worth was produced by the placers, the rest being derived from lode deposits.

### Prof. Wilkinson Leaves M. S. M.

Prof. G. T. Wilkinson of our language department, has accepted an instructions in Romance language at the Columbia University, New York City. The Miner wishes him success in his new field of activity. Prof. Wilkinson had many warm friends here who regret to see him leave.

Mrs. George Ashdown, of St. Louis, is expected to arrive in Rolla today to attend the M. S. M. Commencement exercises, and to witness the graduation of her son, Byron L. Ashdown, as civil engineer. Mr. Ashdown will also have the pleasure of having his sister, Miss Esther Ashdown, his grandmother, Mrs. Mary Ashdown, and his aunt, Mrs. R. E. Whiting, of St. Louis, also present to enjoy the festivities of the occasion.

## WILL YOU?

The Missouri Miner has had a successful year, and the credit for its prosperity belongs not only to a staff of workers, but to the student body as well. Without its hearty subscribers the publication could not even have existed, for it is by their support that the circulation has paid for the cost. Without advertisers the paper would have cost too much to be practical, for it is the "ads" mainly that stave off failure in the financial sense. Without contributors, both from among the faculty and alumni, as well as from students, the Miner would not have furnished the interesting as well as instructive reading matter that it did.

Let us then turn back to the files and glance through the copies. We see articles by Dr. McRae, Dr. Barley, Profs. Gottschalk, Clayton, Anderson, Mann, Forbes and Coach Dennie. Among the student contributors we have "Antimony Mining," by T. C. Hoo; "Copper Smelting at Omaha," by Robt. Massey; "The Athletic Association," by O. E. Stoner; "Does It Hurt," by Zoller, and many others.

The main staff has contributed as editorials such articles as "The Qualifications of an Engineer," "The Bulletin Board," and the series of little straight-from-the-shoulder "Talks by a Freshman's Roommate."

As for the sport end of the news, as all agree, athletic write-ups have been prominent by their snappy, witty and natural tone. Every football game, every basketball game, every baseball game—varsity, club and frat, every meet, big or little, tennis tournament and all, all have been clearly written up, regardless of the victors.

The locals and jokes are an important part of a student publication, because each joke or event usually appeals to those of us who know the goat or butt of the joke in question. Perhaps our name was mentioned, and without smiling, it is that copy

of the Miner which is sure to be sent home to father, mother, sister, or somebody else's sister.

We have just made a brief review, there are better articles, there is more to be said if time would allow a close examination of the files.

However, the point is this, the reading matter of the Miner has been what you want. It has been your paper, a mirror of your acts and desires. It has been for you, and largely by you, it is still at your disposal.

It is not a faculty organ, it is not a club or frat possession, it is not a town advertising medium; it is the publication of the Missouri School of Mines—of you.

If it has not contained the articles you would have desired in it, it is up to you for never writing those articles. If it contained editorials which hit the spot a little sharply, remember that the spirit of the thing was for mutual advantage, absolutely and essentially without malice.

The year is over: For the most it has been a year of big success. You are responsible, and if you now feel the joy of a thing won, if you realize a satisfaction, and are proud of your Miner, you have merited it by your hearty support.

Now, the question arises, will you boost the Miner onward next year? An efficient and hard-working staff has been elected; will you co-operate? If you will, then the Miner is an assured continued success. If you won't, then that miracle has happened, namely, that at old M. S. M. loyalty and school spirit has died.

Seniors, you are leaving this year for fields of work. Don't you think you will really enjoy it all to hear from the old school, and know what the fellows are doing. Sure you will; it's only natural; so why not place your renewed subscription with the Miner? It's up to you, YOU!

Prof. C. R. Forbes has been elected a member of the Executive Committee of the St. Louis branch of the American Institute of Mining Engineers.

## A. I. M. E. Meeting.

The St. Louis Section of the American Institute of Mining Engineers held their annual meeting on last Saturday. In the morning, after assembling at the Mercantile Club, an automobile trip was made to the by-product coke plant of the Laclede Gas Co., in Carondelet. The process of extracting the gas from the coal, and refining, screening and separating the coke was explained and discussed by Mr. Wilson, an M. S. M. man in the employ of the company.

Luncheon was taken at the Mercantile Club, after which a trip was made to Granite City, where the plants of the National Enameling & Stamping Co. and the Hoyt Metal Co. were visited.

In the evening a dinner was held at the St. Louis Club. Mr. P. N. Moore acted as toastmaster. The principal speakers of the evening were Dr. L. D. Ricketts, President of the Institute, who spoke on the copper situation in the southwest, and Professor Bradley Stoughton, who gave a talk on the aims and purposes of the Institute. Short talks were also made by W. E. McCourt, J. D. Malcolmson, and H. A. Buehler.

Those attending from Rolla were Dr. A. L. McRae, H. A. Buehler, C. R. Forbes, G. H. Cox, R. J. Anderson, J. J. Doyle, Herman Vogel, G. E. Ude, and C. G. Stifel.

## Dr. McRae's Dinner to the Seniors.

On Tuesday evening Dr. and Mrs. McRae entertained the Seniors with a delightful dinner at their home. The entire class attended in a body. Mr. B. L. Ashdown acted as toastmaster, and short talks were made by Dr. S. L. Baysinger, Professor C. Y. Clayton, J. C. Miller, President of the class, Lucien Erskine, J. J. Doyle, J. J. Dowd, Herman Vogel, and John Schuman. Dr. McRae, on behalf of the school, thanked the Seniors for their gift of the Sun-dial.

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### M. S. M. Men in the Lead Belt District of Southeast Missouri.

Wm. Elliott, '15, Federal Lead  
Co., Flat River.

L. M. Cummings, Doe Run Co.,  
Flat River.

R. E. Rhoades, Sp., National  
Lead Co., St. Francois.

L. A. Delano, '04, St. Joseph  
Lead Co., Bonne Terre.

L. B. Pringle, ex-'11, St. Jo-  
seph Lead Co., Bonne Terre.

W. H. Wager, '14, St. Joseph  
Lead Co., Leadwood.

B. F. Murphy, '10, St. Joseph  
Lead Co., Leadwood.

W. C. Hogoboom, '14, South-  
east Missouri Lead Co., Potosi.

R. T. Rolufs, '61, St. Joseph  
Lead Co., Herculaneum.

E. C. Smith, ex-'09, St. Joseph  
Lead Co., Herculaneum.

S. P. Lindau, '12, St. Joseph  
Lead Co., Herculaneum.

J. H. Steinmesch, '06, Desloge  
Lead Co., Desloge, Mo.

Two or three men from the  
1916 class will go into this district  
June 1.

### Summer Library Hours.

Beginning Thursday, May 25,  
and until the opening of school  
in September, the library will be  
open on week days from 8 a. m.  
until 12 m. and from 1 p. m. un-  
til 4 p. m., except on Saturdays,  
when it will be open from 8 a. m.  
until 12 m.

The library will be closed on  
the holidays: Tuesday, May 30;  
Tuesday, July 4; and Labor Day,  
Monday, September 4. On com-  
mencement day, Friday, May 26,  
the library will be open from 8  
a. m. until 10 a. m. and from 1  
p. m. until 4 p. m.

All books now out are to be  
considered due on May 25, and  
should be returned not later than  
that date, or else renewed with  
an explanation that they are  
needed for use after that date.  
Books which are not returned or  
renewed by May 25 will be liable  
to the usual fine on overdue  
books.

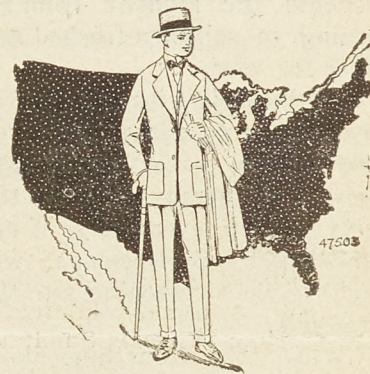
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### What Are You Going to Do?

Many of us are looking forward to a vacation as a period of "loafing;" others are equally or more erroneously thinking of making the summer months a time to bone and grind and forge ahead. As is always the case, a golden mean between two extremes is the best thing to do.

To spend the summer in studying is not profitable, if that studying were either to weaken the health at the most, or at least to deprive the student of the period of relaxation that necessarily must follow a well spent year at school. Again, summer "grinding" cannot be profitable if it prevents the student from returning to school refreshed and eager for work.

It is the same with any piece of mechanism; no matter how well oiled, or how perfect in design, there is a steady wear on the parts, which eventually, if not remedied by replacement, will send the whole machinery to the scrap pile.

We are, then, something like a machine, and if we have exercised our mental reserves—not to the limit, of course, but at least some. Then we must have a little "overhauling."

Now, lest this be taken to mean a vacation of absolute rest and tranquility, let me say, that, paradoxically as it appears, we must work harder. But, this work to be beneficial should be of an entirely different nature than that to which we are accustomed; it should be work of the physical, rather than of the intellectual functions, although a happy combination of both is good as well.

For this reason it is well for the student to consider spending a few months in the mining camps. Here he will find a big field for work. Wages are high, labor not gruelling, and opportunities to learn, excellent. Let him work, let him bend his back, let him sweat. And the result will be that next fall he will return eager to work at school, for the memories of the mucking

days will be fresh in mind. He will be a better man physically, because he has exercised physically. He will be educated, because his mind, tho not driven, has been active in absorbing experiences, objects, events and data of all kind. He will know something of the profession that he is seeking to follow up. He will be a wise man, for he will be seeing the mining game before actually paying for it by three or four years of college.

It is a wise man who sees first what he is buying, and then gets the better part of the bargain in the end.

### Sigma Nus Win Championship in Allison-Bentley Series.

Last Friday the championship game of the Allison-Bentley Series was played. The Corsairs, last year's champions, were pitted against the heavy hitting Sigma Nu outfit. Three of the regular Corsairs were not in the line-up, on account of being on the Senior trip.

The game was not as one-sided as the 10-0 score might indicate. It was a pitcher's battle between Imlay, Sigma Nu, and Epperson, of the Corsairs. Both were stingy with their hits, Epperson allowing five, while Imlay held the Pirates down to one measly hit. Exasperating errors behind Epperson allowed the Sigma Nus many scores, which should have been easy outs. The Sigs played air-tight ball, only making one error, which did no damage.

The Sigma Nu started out with a three-run lead, due to hits by Powell, J. Morris and Bates. The Corsairs got two men on the paths after two were down, but Imlay struck out Williams before any damage had been done. Epperson tightened up and struck out two men, while the third man was an easy infield out. Imlay had the Pirases dumping easy rollers to the infield, three men going down in a row.

Two errors by the Corsair infield and a clean safety by Leonard scored two more for the

Sigma Nus. In their half of the third the Corsairs were put down in one, two, three order. A walk, an error, and a hit, scored another one for the fraternity boys in the fourth, while the Corsairs were fanning the breeze for three successive strike-outs. Two strike-outs and an infield roller stopped the Sigs in the fifth. Beck's out, Henschel's strike out, Tea's walk, and Turnbull's two-bagger put Teas on third and Turnbull on second. Barton was an easy out, and the Corsair's chances to score went glimmering.

With the light end of the batting order up, three errors in succession scored Golick. Powell, Ambler and J. Morris were retired in order, with two men on the sacks. Young, Epperson, and Brown, could not penetrate the Sigma Nu defense, and were put down in order.

Two errors, two stolen bases, and three more or less scratchy hits, enabled the Sigma Nus to put three more runs on ice. In their last time up, the Pirates got Beck on, who went to second on Henschel's sacrifice. Henschel was safe on first. Teas struck out, and Turnbull ended the agony by dumping an easy one to the infield for the final out. Final score: Corsairs 0, Sigma Nu 10.

Batteries: Sigma Nu, Imlay and Ambler; Corsairs: Epperson and Williams. Umpire: Thornberry.

### A Word From the Coach.

I wish to thank all of the men who in any way assisted in the running of the meet last Saturday. Every thing went smoothly with no events dragging, which could not have been accomplished without able help.

I also wish to congratulate the student body for their reception and entertainment of the visiting contestants. This more than anything we could have done furthered friendly athletic relations with Washington.

F. E. DENNIE.