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The Missouri Miner, November 20, 1935

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XXII.

ROLLA, MO., WEDNESDAY, NOVEMBER, 20, 1935

NUMBER 10

A. I. M. M. E. MEETS HERE

National Group To Meet With Missouri Section of Mining And Metallurgical Engineers

On November 23-24 there will be a joint meeting of the St. Louis Section and Joplin-Miami Section with the Missouri Mining and Metallurgical Association in Rolla. An extensive and interesting program has been prepared and all students in mineral industries curricula are urged to support this meeting by attending the luncheon, banquet, and technical sessions. H. S. McQueen, D. F. Walsh, and Frank Reinmiller are in charge of local arrangements. The program follows:

Saturday, November 23
9:00 A. M.-12:00 N.

REGISTRATION, Room 101, Geological Survey Building, Missouri School of Mines Campus. Inspection of School of Mines, State Geological Survey, and Mississippi Valley Station of U. S. Bureau of Mines.

12 Noon
LUNCHEON, Sinclair Tavern.

2:00 P. M.

TECHNICAL PROGRAM
Geology Lecture Room 204, Norwood Hall.

C. F. Williams, Chairman, Joplin-Miami Section, and H. S. McQueen, Chairman, St. Louis Section, Presiding.

(1) **NEW DEVELOPMENTS IN MINERAL DRESSING**. By Bruce Clemmer*, Metallurgist, Mississippi Valley Station, U. S. Bureau of Mines, Rolla, Mo.

(2) **FIRE BRICK IN THE METALLURGICAL INDUSTRY**. By Frederick W. Schroeder* and William Powell, A. P. Green Fire Brick Company, Mexico, Mo.

(3) **STABILIZATION OF THE SUB-BASE IN HIGHWAY CONSTRUCTION**. By R. C. Schappler*, Chief Geologist, Missouri State Highway Department, Jefferson City, Mo.

(4) **POTASH MINING IN NEW MEXICO**. By John P. Rasor*, Secretary, Missouri Mining and Metallurgical Association, Rolla, Missouri.

(5) **RECENT DEVELOPMENT IN THE MINING OF IRON SULPHIDE DEPOSITS IN THE OZARK REGION OF MISSOURI**. By Professor Rex Williams, Missouri School of Mines, Rolla, Mo.

* Member, A. I. M. E.

6:00 P. M.

BANQUET, College Inn, Hotel Edwin Long. Toastmaster, Dr. Walter E. McCourt, Vice-Chancellor, Washington University, St. Louis, Missouri.

(1) **THE INSTITUTE**. By Dr. H. A. Buehler, President, The American Institute of Mining and Metallurgical Engineers, and State Geologist of Missouri, Rolla, Mo.

(2) **THE SEISMOGRAPH IN GEOPHYSICAL PROSPECTING**. By Dr. Gerald H. Westby, President, Seismograph Service Corporation, 709 Kennedy Building, Tulsa, Oklahoma.

Sunday, November 24

9:30 A. M.

FIELD TRIP

Assemble at Geological Survey Building, 12th and Main Streets. The Forbes clay mine north of Rolla, and the Thomas-Williams iron sulphide mine south of Rolla, will be visited. These deposits represent classic examples of min-

BLUE KEY FRATERNITY HOLDS FOURTH MEETING

Last Tuesday, November 12th, marked the fourth meeting of the year for the M. S. M. Chapter of the Blue Key Fraternity.

Several subjects were brought up such as the appointing of a committee for looking up the scholastic records, and activities of prospective pledges of eligible juniors, the discussion and decision of the members for having a concession for the dispensing of soft drinks and frankfurters at the next football game and the plans laid for a banquet which is to be held in the near future for the members of this fraternity.

An official change of meeting nights from alternating Tuesdays to alternating Thursdays was announced.

PLAY TO BE PRESENTED

Alpha Psi Omega to Give First Production of Season on Dec. 12; To Be On General Lecture Series.

Alpha Psi Omega, the campus dramatic society will present their first play of the current year Thursday night, December 12, in Parker Hall. The presentation is to be "The Tightwad", a comedy by Robert Keith.

The feminine lead is held by Betty Woods, who plays the part of a sweet young thing and makes a tightwad out of the spendthrift Ray Dallmeyer. Bob Gardner is in the power of a wild young modern, Kay Haymes by name, and therefore stands very low in the estimation of his father, "Doc" Maisie.

Supporting roles are played by Jack Hall, a friend of the family who is in love with himself more than anyone else; and Charlotte McNichol, the devoted and thrifty wife of Maisie.

This program is the fourth in the series of general lectures and judging by past performances promises to be a good one. Alpha Psi Omega has never failed to provide an enjoyable evening and this promises to be the best.

Greatest "thief" in football annals was Princeton's Arthur Poe, who wrenched a ball from the arms of a Yale runner November 12th, 1898, and ran 100 yards for the day's only score.

Enrollment in Haverfords' courses for the college janitors and kitchen men jumped this year from 11 to 25. Subjects include civics, French and algebra.

It would take 503 years for one person to complete all courses now being offered by Yale University (New Haven, Conn.).

eralized sinkhole type deposits. An excellent opportunity will be afforded to study the geology of these unique deposits.

The field trip will terminate at Rolla at 12 noon.

Local committees appointed for Joint Meeting, are:

Committee on Program
C. Y. Clayton, Chairman
E. A. Stephenson
C. R. Forbes
H. S. McQueen.

Committee on Arrangements and Reception
D. F. Walsh, Chairman
H. R. Hanley
Bryon Peebles
Frank Reinmiller.

Committee on Field Trip
G. A. Mullenburg, Chairman
John Grohskopf.

CIVILS HEAR 3 SPEAKERS

A. S. C. E. Addressed By Technical Men From Various Fields of Civil Engineering

Last Wednesday evening the local student chapter of the American Society of Civil Engineers was addressed by three speakers at their meeting in the Geology Lecture Room in Norwood Hall.

Mr. Beckman of the local U. S. G. S. office reported on the fall meeting of the American Society of Civil Engineers held recently in Birmingham, Alabama. One entire afternoon was devoted to discussions of and by the student chapters represented by 63 student members from several schools and contact members from many more. Mr. Seabury, General Secretary of the parent society told of a questionnaire that had been circulated among various concerns inquiring as to the greatest deficiency among engineering graduates. Among the great variety of answers received the most frequent was that the engineering graduates are deficient in knowledge of correct English.

Mr. David J. Peery, M. S. M. '34, now connected with the Missouri State Highway Department, spoke on "The History of Structural Engineering". The principle of the stone arch was used by the ancient Greeks and Romans, but the first real theories of engineering were developed by Archimedes, the great Greek mathematician and physicist of Syracuse. However, most of our knowledge of this field has grown in the last century. The problems of stresses in a beam were solved about the year 1800. Developments in metallurgy greatly stimulated structural progress and when Bessemer learned how to make steel in large quantities about 1850 the modern era really started, although this discovery was not of much value until it was learned that a basic lining in the furnace would remove the phosphorous from the ore. This phosphorous had been making the steel brittle.

Mr. Howard Mullins of the Missouri State Highway Department spoke on "Self-Anchored Suspension Bridges". "During the past 15 years we have witnessed great activity in bridge building. No nation has ever before seen such a spectacle of suspension bridge building as we are now witnessing. Few of us will ever be connected with such great structures as the San Francisco bridge but we should bear in mind that it is only through working with shorter bridges, up to 800 feet, that the construction of the larger ones has been made possible.

Mr. Mullins had a large number of slides showing views of self-anchored suspension bridges throughout the United States and Europe, and a number of plans for new types of bridges which have never been built.

At the conclusion of the meeting refreshments consisting of chile con carne and crackers were served to the entire satisfaction of all present.

CIVIL SERVICE EXAMINATIONS ANNOUNCED

The United States Civil Service Commission has announced that open competitive examinations will be held for positions, with the government, for metallurgists.

The following list comprise the type work, and its yearly income: Associate Metallurgist (recovery), \$3,200 a year, Assistant Metallurgist (recovery), \$2,600 a year, Assistant Metallurgist (physical), \$2,600 a year. Examinations will also be held in the optional branches, they are: Ferrous, Non-Ferrous and Ore Dressing.

Certain education and experience are required for these positions.

Full information may be obtained from C. D. Hazlewood, Secretary of the U. S. Civil Service Board of Examiners, at the post office in this city.

RADIO CLUB MET FRIDAY

Student Talks With Parents In Puerto Rico Over Radio. 2000 Miles Covered In Conversation.

The Radio Club held a meeting last Friday evening in the Physics Lecture Room.

It was decided to purchase a Call Book and some License Manuals. A program committee was appointed to arrange programs for future meetings.

There was a lengthy discussion on the building of a small transmitter. This transmitter will be built by the members. Much experimenting will be done on the various frequencies.

After the meeting was adjourned, Prof. Raines took the members to the Communication Lab. and gave a very interesting talk. He explained the purpose of the various pieces of apparatus in the lab.

Through the aid of the wonderful invention, the radio, David Wilson, a Kappa Sigma Pledge carried on a conversation with his family. Mr. and Mrs. Archibald Wilson and sisters, Ana Maria, Susana and Lydia, in Santurce, Puerto Rico, last Thursday evening about 9:00 P. M. C. S. T. or 11:00 P. M. Puerto Rico time. Mr. Wilson was very much surprised as well as overjoyed since this was the first time in three years that he has spoken to them. Jack Rasor, local radio wizard, contacted Professor Kendrick, Prof. of Physics of the University of Puerto Rico who in turn notified the Wilson family. They talked by telephone to the University of Puerto Rico and then via radio to the M. S. M. Radio Station at Rolla. The contact was in duplex and was therefore very similar to a telephone conversation, and was very clear and distinct although the distance was over 2000 miles. The conversation was entirely in Spanish although David's sister's are very proficient in the use of the English language.

Advertise in The Miner

1935 FOOTBALL SCHEDULE

OCT. 5 — MINERS 6; McKENDREE 0.
OCT. 11 — MINERS 0; ST. LOUIS U. 38.
OCT. 19 — MINERS 2; SPRINGFIELD 7
OCT. 25 — MINERS 6; WARRENSBURG 20
NOV. 2 — MINERS 0; MARYVILLE 7
NOV. 8 — OKLAHOMA CITY 27; MINERS 6
NOV. 16 — KIRKSVILLE 13; MINERS 6
NOV. 22 — CAPE GIRARDEAU AT CAPE

AGE OF MAN DISCUSSED

Lloyd States That Many Questions Concerning Antiquity of Mankind Are Unanswerable.

By E. L. Claridge

Many questions, including that of the antiquity of man, can only be answered by philosophy, Prof. S. H. Lloyd asserted in the freshman lecture on "Man's Antiquity" last Thursday.

There is the old problem of the hunter and the squirrel, he explained, in which the hunter circles a tree trying to see the squirrel which keeps always on the other side of the trunk from him. Now the question is, did the hunter go around the squirrel or not? Philosophy answers with another question, "What Do You Mean By Around?"

Similarly with time, it is asked, "How do you know you were not created fifteen minutes ago, created with the memory of your past life in you?" We cannot answer with logic.

Adam is supposed to have been born or created at 9 A. M., Oct. 20th, 4004 B. C. But evolutionists contended that man developed gradually, and that his genealogy extends perhaps as much as a million years back. For the age of the earth, they claim one and one-half billion years, and seem able to prove it by the rate of stratification of rocks and the rate of disintegration of radioactive minerals. The catastrophists, on the other hand, insisted that the world was destroyed and recreated again on different lines several times. This brings up the question already mentioned, that we really can't determine just when we were created, because we may have been created with the memory of our past associations in our mind. We don't know when the earth was created. It may have been 4004 plus 1935 years ago, or it may have been a billion and a half years ago, or it may have been two seconds ago. Philosophy gives the only answer: Choose the most convenient.

Another similar question is connected with the well known Lorentz-Fitzgerald contraction, given by formula, $L = L_0 \sqrt{1 - (V/C)^2}$, where L is the length of any object, as a twelve inch rule, for instance, V is the velocity of an observer parallel to the rule, and C is the velocity of light. When the speed of the observer, or vice versa, of the rule reaches the speed of light the apparent length of the rule to the observer is zero, the rule has disappeared, or contracted to nothing. Now, the question arises, does this really happen? Again philosophy answers, take your choice. Either it does or it does not.

If we choose to think of age in terms of evolution, then the first thing which might be called a man by a stretch of the imagination must have existed a million years ago. Its present name is Pithecanthropus Erectus, the Pithecanthropus meaning ape-like and the Anthropus signifying man. About six hundred thousand years ago was Eo-anthropus, and earlier yet was Anstraliopithecus Africanus. But even this last one was more man than ape.

Later yet came Homo Heidelbergensis, which lived two hundred and fifty thousand years ago, named after Heidelberg where the bones of one of them was found, the first to be called homo or man by modern scientists. Then came the Neanderthal man, Homo

Continued on page four

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FACULTY ADVISERDR. J. W. BARLEY

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IN THE MAIL

Dear Mr. Editor:

How about a campaign for better movies here in Rolla? The recent run of pictures has been terribly commonplace. There were two cheap "Westerns" at the movie PALACE last week; and a good many of the pictures shown are out of date. The management appears to think that the students will stand for this sort of thing. Let's have an editorial.

I want to make one more suggestion and in doing so I believe that I voice the sentiment of a large portion of the readers of this paper. I think that the policies of this paper are much too conservative for a student publication. Youth is energetic, forceful, and being such a creature demands action. It is very little action indeed that can be found on M. S. M. campus. A few spicy editorials from other student publications might help a little. If you would use a little news other than that existing right under your nose perhaps you could fill more than four pages in future issues.

Yours truly,

A. PEST

P. S.—The next time this here paper don't suit me you'll get another one of these things.

Thanks Mr. Pest. We'll be expecting to hear from you again. The only way we can tell whether or not we are pleasing our public, is by the number of suggestions or complaints we receive, and yours has been the first we have been able to acknowledge, or credit as coming from a definite source. What with anonymous telephone calls and complaints received via the old established grape-vine method, we have been able to accomplish nothing towards taking advantage of the suggestions.

The larger the percentage of our readers you represent with your suggestions the better we like them. Yours is no doubt a good suggestion about the improvement of conditions at the movie "palace", and we wonder if something couldn't be done by the students toward getting some service for the enormous prices we pay for cleaning and pressing.

We will welcome suggestions from either those of our readers who agree with our policies or those who don't.

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THRU THE TRANSIT

By Flash—And The Widow
was caught off base.

Talk about your strike outs, the Widow really went down swinging last Saturday night at the Pennant. We wonder how she feels to be on the wrong end for a change. Have you bought that ticket to Chicago yet?

Then we heard a choice bit of gossip about one of the Rollie town girls (who goes to school quite a distance from here). If anyone is interested in finding out what it is about, all one has to do is to be in the near vicinity of Freshman Sault, and you will hear him bragging about it.

We also hear that Mercier's Gleason, and McLaughlin have been doing a little prowling in some of the towns near here under assumed names. It seems that the secret of their success? is to promise the fair young damsels to take them to a picture show. But do they take them to the cinema? This correspondent hears that they don't. Better watch out boys, they grow big in these hills.

That must have been some party that some of the members of the faculty, and the town people threw at the Pennant last Saturday night. One of the ladies in the party mistook snake Folsom for Leslie Howard, and after surveying the group for a while asked, "Is this a bunch of Sigma Nuers?"

Then, Opal (one of the Harvey restaurant gang) seems to be the recipient of Shepherd's advances, because one can see, (if one stays up that late) Shepherd taking this young lady home every night. And Opal doesn't get off work until about two or three in the morning. My, my, Tex.

Silver, Schwalbert, Wilkey, Taylor, and our old friend keyhole Pete were in something of an accident Saturday night enroute to Mitten-dorfs. Luckily no one was hurt, but ask Silver what he did immediately after the collision. Maybe the reason none of the boys were hurt was because they had a lap full of girls.

We don't know what Johnny Kiser was celebrating this weekend, but whatever it was, he was doing a good job of it. He had a lot of help from some of his fratern-

ity brothers too.

This correspondent was checking up on the boys Friday night to see how they prepared for the big inter-fraternity hop, but everything seemed to be on the Q. T., because all that happened was Collins trying to keep the phonograph in time viz Maestro.

Jack Wright was another one of the boys who strayed from the straight and narrow over the weekend. He was seen getting confidential with Fred Lane. We will bet that it was a very intellectual conversation.

Incidentally we sure think that Jug Rasor puts out some very witty remarks over the loud speaking system at the football games. Keep it up Jug, your bound to say something funny after so long a time. Law of averages you know.

They tell me Kenny Rodman has started playing with little wheelbarrows again, and that he has seen carting home a whole sack of potatoes the other day. What have you over there, Kenny, an army?

There is a certain Prof. who must be trying to set a new style—yellow handkerchiefs. Now, isn't that a shame when mommie's and teachers spend three quarters of their time seeing to it that little Johnny goes to school with a clean hanky every day. Think of all of the time wasted if Johnny grows up and comes to M. S. M. where he learns that to be personally careless there ain't any sin on this campus. You frosh and sophomores will have to grow up a little bit more to know what I mean—but it won't be long now.

Who was the young man staggering down the main street of the town trying to get to Harvey's, Friday night or Saturday morning about 3:30 A. M.? Was it you Smart?

Ruby Coureson took a young man out one Sunday night in her car. There happened to be a double barreled 12 guage shotgun handy in the back seat. Was it for protection Ruby?

Jim Waddell and "The Duchess" were in town last night to add a little life to the dance. The Miners kinda go for that dame.

RASOR DISCUSSES GROWING INTEREST IN NON-METALLIC

Suggests That Economic Conditions Are Discouraging, "Get Rich Quick" Element Of The Mineral Industry Coal Taking Strong Lead Over Other Non-Metals

By Jack Rasor

Until comparatively recent years very little attention in the mining world was paid to non-metallics. Perhaps the present economic condition has discouraged the "get-rich-quick" element of the mineral industry and serious consideration of the countries natural resources have been taken into consideration. Another factor in favor of the non-metallics has been the improvements in ore dressing methods along with those developments of large-scale low cost mining methods. Unlike the metallic minerals, the non-metallics do not bring high prices on the current market and perhaps this factor has been the

cause of the lagging interest shown in this field.

There is little doubt that the leading mineral of the non-metallics class is that of coal. Coal has been mined for many years and coal mining methods are pretty well standardized in all coal fields. With the increased activity of the petroleum industry, and the internal combustion oil engine development, the coal industry perhaps has suffered a set back, however, this industry has kept in tune with the modern industry by more efficient mining and preparation methods.

The coal man now finds that he can market his "fines" that were discarded before the introduction

of the automatic stoker and the coal dust burner. The present day trend to high efficiency firing and heating methods has demanded a high grade and uniform fuel, the coal operators have answered this demand washing plants, closely sized products and in some instances concentrated products. The typical example of these methods may be exemplified by the preparation plant of the Zeigler Coal Co. of West Frankfort, Illinois. This plant, yet an experiment, has a capacity of 1000 tons per hour of washed, sized and concentrated coal. The general tendency in the coal industry seems to be pointing to large scale mining and washing. The recent activity in highway constructing has put a heavy demand on the market for crushed stone, and with the improved methods of screening and handling new sources of aggregate for concrete have been worked. Long haulage of sand and gravels is a thing of the past with portable screening and washing plants operating close to the demand points.

Continued on page four

DRINK
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PROGRAM
ROLLAMO THEATRE

Matinee: 1:30 and 3:30
Night: 7:15 and 9:00

WEDNESDAY AND THURSDAY,
November 20 and 21

Rochelle Hudson and Henry Fonda
in

"WAY DOWN EAST"

ALSO

Latest News Flashes

"Doorman's Opera"

Admission 10 and 35c

FRIDAY, NOV. 22

"I LIVE FOR LOVE"

with Dolores Del Rio, Everett Marshall, Guy Kibbee, Allen Jenkins

ALSO

"Moans and Groans"

"Anniversary Trouble"

Admission 10 and 25c

SATURDAY, NOVEMBER 23

MATINEE AND NIGHT

"SPECIAL AGENT"

with Bette Davis, Geo. Brent,

Ricardo Cortez

ALSO

"Pickled Peppers"

Chapter 10, "Law of Wild"

Admission Matinee 10 and 15c

Night 10 and 25c

SPECIAL MID-NIGHT SHOW

Saturday, November 23

Boris Karloff in

"THE BRIDE OF FRANKENSTEIN"

The Super Shocker of the Century

Also Short Subjects

Doors open 11:30;

Show starts 11:45

Admission 10c and 25c

SUNDAY AND MONDAY,

November 24 and 25

The Mightiest of Spectacle Dramas

"THE LAST DAYS OF POMPEII"

with Preston Foster, Alan Hale,

Dorothy Wilson

ALSO

"Stranger Than Fiction"

"Little Dutch"

Latest News Flashes

Admission Matinee, 10 and 25c

Nights 10 and 35c

TUESDAY, NOVEMBER 26

BARGAIN NIGHT

Bert Wheeler and Rob't Woolsey in
a drippy, dippy drama of the
drought

"THE RAINMAKERS"

ALSO

"Vodka Boatman"

"Puppet Murder Case"

Admission 10 and 25c

or TWO for 10 and 35c

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KIRKSVILLE GAINS 13-6 VICTORY OVER ENGINEERS

BULLDOGS NAIL DOWN FIRST PLACE IN M. I. A. A.

Visitors Score Twice in First Half, Miners Gain Single Touchdown Following Fumble Just Before Whistle For First Half.
Hard Fought Game Throughout, With Odds Against Locals

By J. R. McCloskey

The Kirkville Bulldogs, led by the hard line bucking of Post and Alexander, took undisputed claim to the M. I. A. A. conference championship Saturday by up-setting the Miners 13 to 6. With all the odds against them, the Miners fought hard and made it anyone's game until the final whistle. The Miners score came late in the first half following the recovery of a fumbled punt on their own 42 yard line. Nickle and Keisler carried the ball to the 30-yard line, then Nick flipped a 25-yard pass to Joe Murphy who went over the double stripe. Stella's kick was blocked on try for extra point.

The Miners did not open their pass attack until late in the game. Except for an occasional pass the Silver and Gold relied on deceptive spinners and straight bucks for the first three quarters. The Bulldogs were well prepared for the lateral pass of the Miners and succeeded in breaking up these plays. Nickle was very successful in penetrating the Teachers line, but something was missing to put the finishing touches on his advances. The Bulldog line was veritably impenetrable most of the time.

Kirkville scored in the first and second quarters. Post and Alexander romped over guard and off tackle for three and four yards late in the first quarter placing the ball on the 24 yard line. A pass to Miller put the ball on the 7 yard line for a first down. Alexander made three yards through the line before being stopped by Loveridge. Post took the ball to the 2 yard line on the next play. With 2 yards to go and last down Post hit the line. He was inches short of the double stripe, but managed to push the ball into the arms of a team mate across the line. Was it legal? Well they only made six points as Cavanah failed to convert. With about ten minutes of the second quarter gone a Miner knocked a pass into the hands of Noble, Kirkville tackle, who carried the ball about 15 yards to the 11 yard line. Failing to gain

through the line, Miller, passed to Cavanah over the goal line for a touchdown. Miners offside on try for extra point as Cavanah rounds end to convert.

The third and fourth quarters were scoreless. Sea-sawing back and fourth across the 50 yard stripe, with an occasional spurt close to the scoring zone, fighting hard all the time. The passing attack of the Miners had the Bulldogs worried in the last quarter. In the last few minutes the Miners completed three passes for 36 yards, but lost the ball on downs. The game ended before they could get the ball again.

Vance Wright and Dick Prough were both removed from the game due to injuries. These two men have shared the position of center all season. With no other experienced center on this years roster Coach Grant called "Ozzie" Holman to fill the center gap the last quarter. Holman is a veteran at the center position as he played there until this season when he was shifted to the backfield. He will probably work at this position in the Cape game Friday.

Miners	Position	Kirkville
Pfeifer	L.E.	Schwengle
Stella	L.T.	Noble
Mattei	L.G.	Wilson
Wright	C.	Flesh
Wilkey	R.G.	Grilli
Appleyard	R.T.	Egan
Murphy	R.E.	Maddox
Nickle	Q.B.	Post
Schwab	H.B.	Miller
McGregor	H.B.	Hanna
Plummer	F.B.	Alexander

Substitutes: — Miners; Loveridge, Hubbard, Kiesler, Vahley, Prough, Folsom, Holman.

Kirkville; Hanna, Moore, King, Bailey, Hombs, Ware, Sirakus, Davis, Mustion.

Yards from scrimmage; Miners, 165 yards; Kirkville, 254 yards.

Yards from passes; Miners, 61 yards; Kirkville, 45 yards.

First downs; Miners, 7; Kirkville, 15.

The Miners attempted 6 forward passes and completed 4. Kirkville attempted 11 passes, completing only 4.

N. Y. A. CHARGED WITH PROFESSIONALISM

Philadelphia, Pa.—A new angle on the perennial charges of professionalism brought against college football players was dug up recently by Milton Prenskey, a senior in Teachers College, Temple University, when he declared in a speech before the city community council that "certain college football teams were being sub-sidized by the government through National Youth Administration funds."

"Members of football teams seem to get the preference for this student aid rather than others who need the money more," he declared. "There is also the problem of state senators telephoning the administration officials to be sure and fix a job for their particular student friends."

Prenskey's charges were denied by NYA officials.

The Fordham mascot, a ram, recently disgraced himself by mistaking an elderly woman for a football spy when she bent over to pick dandelions near the practice field. The woman was taken to the infirmary, where it was discovered her injuries were not serious.

MINERS MEET CAPE FRIDAY

Engineers to End Football Season at Cape Girardeau. Last Chance For Redemption.

By Jimmie Evans

As a greatly rejuvenated squad—but still holding honors in the conference cellar—the Miners will leave tomorrow for their last game of the season against the Cape Girardeau Indians. And the question now is; can the Miners scalp the Indians on their own field and repeat Springfield's performance against Cape?

When the present season opened Cape started off by winning her games right and left. And it was predicted that she would probably win the conference championship, but two weeks ago when Kirkville dumped them out of the race for the championship it seemed that their luck had changed. For although Cape has since won a game from Carbondale she was also beaten Friday night in the upset of the season by Springfield by a score of 6-0.

However the game should be a good one, for Cape will be out there trying to jump back into second place and the Miners will be gunning to break their streak and step out of the cellar. When the season opened Coach Stuber, who coaches the team single handed, had seventy candidates report for football among them eighteen lettermen.

Probably the standout on the Cape squad is Walt Metje, diminutive quarterback, who was one of the M. I. A. A. most consistent ball carriers last year and made the All-Conference Team as a freshman. Backing up Metje in the backfield Stuber has two junior triple-threat men in the persons of Roy Hall and Mud Bona. Bona is Cape's principle passer while Hall does the major share of the punting.

Cape has two mighty linemen, John Adams, 230-pound tackle, and Milt Swan, center, who are this year the co-captains of the team. Although in the past few weeks Captain Adams has been benched in favor of the sensational Freshman lineman Canvey Hartle.

In the backfield, George Godwin, Roy Hall will probably start as Jim Obermiller, Jim Parker and backs as both Bona and Hall are suffering with slight injuries. However they are not sufficiently injured to be counted out altogether. The starting line is yet indefinite.

The results of last Saturday's game were greatly encouraging. For if Kirkville only beat the Miners by one touchdown and previously beat the Indians 20-0 it looks like the Miners have a good edge over Cape.

Indication of returning stable business conditions is seen in the increasing amount of gifts to colleges and universities.

COMPTON SAYS

By B. C. Compton

The standings of the M. I. A. A. football teams went through a complete upheaval last week-end. Kirkville took the championship by defeating the Miners, but Maryville dropped from third place to fifth, and Cape tumbled from second into a tie for second when they lost to Springfield 6 to 0.

Warrensburg, defeated Maryville 3 to 2 in one of the most surprising games of the season. Bearcats held the Mules to a field goal, while Warrensburg were forced over their own goal line to give Maryville a safety. A muddy field held down the scoring.

Clell Spradling, Bruin end, intercepted a lateral pass late in the first quarter and sprinted 33 yards for the only score in the Springfield-Cape Girardeau battle.

Cape ripped the Bear line to shreds, under the leadership of Bona and Metje in the second half, but Coach Andy McDonald's charges showed unexpected stubbornness when they were in the shadow of their own goal posts, and twice weathered serious touchdown threats.

It was Springfield's second victory in conference and was Cape's second defeat of the season.

Incidentally the games last week ended the season for several of the Teachers teams. Besides the Miner-Cape game Friday, William Jewell invades Warrensburg in a non-conference game. Kirkville is interested in a post season game, but as yet has not decided whether they will schedule a strong team or store the uniforms in mothballs for the winter.

Past Results

Conference

Maryville 7; Springfield 0
Warrensburg 13; Cape 16
Miners 2; Springfield 7
Warrensburg 9; Kirkville 10
Miners 6; Warrensburg 20
Kirkville 27; Springfield 0
Cape 20; Maryville 7
Miners 0; Maryville 7
Springfield 13; Warrensburg 13
Cape 0; Kirkville 20
Kirkville 18; Maryville 6
Cape 0; Springfield 6
Maryville 2; Warrensburg 3
Miners 6; Kirkville 13

Non-Conference

Cape 14; Terre Haute 0
Cape 7; Carbondale 0
Cape 32; Batesville 0
Cape 14; Carbondale 0

Friday's game against the Cape Indians will be the last game in which seven of the seniors will be playing for M. S. M., their alma mater. Beside the two captains, Fred Schwab and Neil Plummer, the men who will be wearing the Silver and Gold for the last are: Johns Hubbard, end; Herman Pfeifer, end; Jim McGregor, half-back; Wendell Folsom, end; and Andy Aylward, tackle.

Four of the men, Plummer, Schwab, Hubbard and McGregor have been on the squad throughout their entire scholastic career and have also lettered each year. Andy Aylward has been on the squad for

M. I. A. A. STANDINGS

Team	Played	W.	L.	T.	Pct.
Kirkville	5	5	0	0	100
Warrensburg	5	2	2	1	500
Springfield	5	2	2	1	500
Cape Girardeau	4	2	2	0	500
Maryville	5	2	3	0	400
Missouri Miners	4	0	4	0	000

(Tie games count as one-half won and one-half lost)

This Week's Schedule

*Miners at Cape Girardeau
William Jewell at Warrensburg

*Denotes M. I. A. A. games.

three years while both Pfeifer and Folsom have played two seasons a piece for the Miners.

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The Mineral Industry.

Continued from page two.

Rigid specifications of aggregates have led some gravel plants to the adoption of concentrating tables to produce a uniform product.

Prior to the world war Germany had supplied the world with potash salts and when this supply was cut off by the declaration of war, the United States began an extensive search for potash bearing minerals. The price of potash salts reached unbelievable heights during this period. The realization of the countries dependency of this strategic mineral led to an extensive prospecting program by the government shortly after the war. As a result of this programme the potash fields of South-Western New Mexico were discovered and they now more than supply the needs of this country with potash.

The use of the non-metallics in the ceramic industry seems to have no limit. The greatest advances in this industry have been made with the development of high refractory materials such as fire brick and boiler lining materials. The present day ceramist finds that in order to supply the industrial needs of this era, he must make use of new raw materials. The present freight rates prohibit the shipment of non-metallic low grade materials any great distance, and for this reason the ceramist has been more or less limited in his selection of raw materials. Present day improvements in ore dressing methods

are making it possible for these low grade impure non-metallic ores to be treated by gravity and floatation methods and a high grade product as a result. Impure fire clays, for instance, may be treated to bring up the alumina content and thereby making them a commercial product. This field of non-metallic ore dressing is a very new one and certainly is one that may be expected to make rapid advances in the mining and milling world.

A short time ago, Mr. O. C. Ralston of the U. S. Bureau of Mines gave a very interesting lecture before the senior ore dressing class and brought out many very interesting facts concerning non-metallic minerals. Mr. Ralston cited innumerable uses for non-metallic minerals in the present industrial field. The speaker also stated that it was his belief that the non-metallic mineral industry was now just in its infancy and he advised most emphatically that this field offered untold opportunities to the young graduate mining engineer.

Perhaps within a short time the mineral industries will see the awakening of a new field, or one that has been neglected for many years.

E. P. O. ENTERTAINS DR. WIEDERMAN

Twenty members and pledges of Epsilon Pi Omicron local chemistry professional fraternity, attended the banquet given in honor of Dr. Wiederman, at the Edwin Long

Hotel on Wednesday evening, Nov. 13. Dr. Wiederman is a consulting chemical engineer and at present is Grand Master Alchemist of Alpha Chi Sigma, the national chemistry professional fraternity.

In an informal discussion following the excellent dinner, Dr. Wiederman hurriedly sketched the history of Alpha Chi Sigma from its inception on the campus of Wisconsin University in 1902, to the installation of the fiftieth chapter at California University in Los Angeles recently. He described methods of the Grand Chapter in handling petitions for membership, and this was of particular interest to the local chemistry group which has already passed the first requirement for membership in Alpha Chi Sigma.

Other members of Alpha Chi Sigma present were Dr. Schrenk, Mr. Schrader, and Mr. V. Smith.

THE BRAIN TEASER

No there was no typographical errors in last weeks brain teaser—just one of those things that are often hard to see, but simple after being explained. Here is the way it was printed last week:

$$IV-III=VII$$

Now move the last match into this position:

$$IV-III=VI$$

The equation of 4-3 equals the square root of 1 is now true.

This week's brain teaser is taken from an actual happening. Last

year a woman was driving her car over one of the streets in St. Louis. She, through carelessness, drove through a safety zone and killed a man standing in it.

When her case came up in court the jury found her guilty of manslaughter and careless driving.

From all appearances the woman would be sentenced to jail for quite some time, but instead of the judge pronouncing a sentence of ten or fifteen years, he announced that he was powerless to sentence this woman at all. He allowed her to go completely free.

Why could not this judge sentence this woman?

FRESHMAN LECTURE

Continued from page one

Neanderthalensis, living about one hundred thousand years ago, and Homo Sapiens, the prototype of all men today, which came along about eighty thousand years ago.

It isn't likely, Prof. Lloyd conjectured, that the last of these Neanderthal men and women were any too popular with the ordinary men, who were then tall, strongly built persons. One of these would not be likely to pick a little, dark Neanderthal woman who walked around with her hands hanging close to the ground, as a mate. So probably the last of the Neanderthal men didn't last long after the coming of the last type, and were either bred off or chased off by our ancestors.

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