



10 Nov 1937

The Missouri Miner, November 10, 1937

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES & METALLURGY

Z385

VOLUME XXIV

ROLLA, MO., WEDNESDAY, NOVEMBER 10, 1937

NUMBER 9

Author To Lecture Saturday Night

Second General Lectures Program to Feature J. B. Priestley on "A Writer Looks at The World"

J. B. Priestley, internationally known English author and playwright will appear on the General Lectures Program in the auditorium of Parker Hall next Saturday evening, November 13, speaking on the subject, "A Writer Looks at the World". Mr. Priestley is one of the outstanding English authors and critics of world affairs.

Some of Priestley's outstanding novels include "The Good Companion", "Angel Pavement", "English Journey", and his most recent work "Midnight on the Desert", considered by critics to be his most outstanding book.

During the past few years, he has turned his attention to the theatre and has produced several successful plays, notably "Dangerous Corner", "Laburnum Grove", "Eden End", "The Roundabout" and "Cornelius." His novels and plays have appeared with success in France, Italy, Germany, Holland, Belgium, Denmark, Sweden, Norway, Poland, Norway, Czechoslovakia, Austria, Hungary, and Finland, in addition to the British Empire and the U. S. A.

Mr. Priestley, although an Englishman, is not at all to be considered as unacquainted with American ways as for the past several years he has spent his winters in Arizona here in the United States.

Although Mr. Priestley is best known as a novelist, and then as a

dramatist and essayist, he prefers the role he has come to play in England, that of a student of world affairs and a critic of life in general. There is a constant demand for his lectures in England, both before important audiences and for radio broadcasts. His subjects have less to do with literary themes than with the larger political, social and philosophical problems of the day. The topic he has announced his School of Mines Lecture is: "A Writer Looks at the World."

Don't Forget Charity Ball

Don't forget the Rolla Junior Club's Charity Ball on Saturday night, Nov. 13, at the Jackling Gym. As in former years, the floor show will be an added attraction to the evening's entertainment, and a better dance than ever is being planned. Admission will be \$1.00, "Stag or Drag", and 25c will be charged to spectators. A percent of the proceeds will be presented to some campus organization, and the net proceeds of the affair will be used to further a local charity project.

New Campus Society Approved By Faculty

Officer's Club Becomes 23rd Post of S.A.M.E.; Thirty-Five Charter Members

The Advanced Reserve Officers' Training Corps Unit of the Missouri School of Mines, heretofore known as the Officers' Club, now exists as a Post of the Society of American Military Engineers. The installation of this Post on the School of Mines campus will undoubtedly enhance the prestige of the R. O. T. C. Battalion.

The installation of the Post on the M. S. M. campus marked the entrance of the 23rd local post in the S. A. M. E. There are 35 members in the M. S. M. Post, as follows:

Seniors

Hueston Smith, Bert Lanier, J. P. Farris, Carl Moore, B. H. McCurdy, James Evans, Herbert Prange, Roy Cornett, Herbert

Wolf, Jack Long, Wm. Decker, Fred Thompson, Stuart Dods, Ralph Scarborough, Arthur Phillips.

Juniors

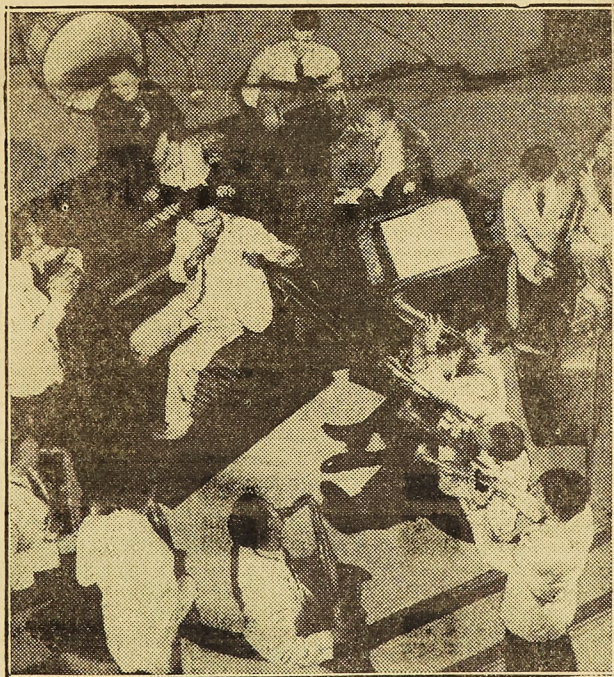
R. G. Livingston, J. H. Livingston, Wm. Ellis, Charles Ward, Wm. Oberbeck, Edgar Pohlmann, Herbert Crecelius, J. P. Soult, Harold Kidd, Richard Love, F. T. Troutner, A. L. Tetley, L. C. Elliott, Leroy Smith, R. M. Stewart, Ray Dalmeyer, R. L. Gardner, Harold Miller, Kermit Siegrist, William Rea.

With men such as the aforementioned as a foundation, it will be impossible to keep this organization from gaining recognition throughout the state. At present plans are being made to have a prominent speaker address the organization at its next meeting. Plans have also been laid for a dance December 4. May the student body turn out as a unit to give this organization the support it deserves.

The military engineers of Amer-

Continued on page four

Velazco To Play At Thanksgiving Ball



Blending the soft cathedral tones of a portable pipe organ to the music of the standard instrumentation of a dance orchestra and producing unusual rhythmic effects, Emil Velazco and his orchestra are scoring a great hit with their dance band innovation.

Velazco, one of America's foremost pipe organists, who for years thrilled thousands of patrons at the Roxy Theatre in New York, has a \$25,000 portable pipe organ as a part of the instrumentation in his band. During his engagement at Rolla, Mo., for the St. Pat's Board Dance, on Saturday, November 20th, Velazco will be heard playing solo numbers and augmenting the rhythmic dance music of his brilliant orchestra.

Featured with Emil Velazco's orchestra is the lovely Helene Gray, a charming songstress who enjoys the distinction of being a Paul Whiteman audition winner. Another vocal artist with the band is Earl Partain, rhythm singer from New Orleans.

The St. Pat's Board has been extremely fortunate in securing an orchestra of such distinction for the Thanksgiving Ball. At the present time, the group broadcasts every night at nine o'clock over Radio Station WIL. They may also be heard over KMOX at 10:15 p. m. on Tuesdays and Saturdays, and at 11:45 p. m. on Thursdays and Sundays.

Among the various places at which this orchestra has played are the Hotel Taft in New York for a two year engagement, the Trianon Ballroom in Cleveland, and last spring at Lookout House in Covington, Kentucky. During the past summer the band has played all through the southern territory. The night after the Thanksgiving Ball they are scheduled to play in Indiana.

Students at the School of Mines will appreciate the opportunity of dancing to such an unusual orchestra in Rolla. Only during the annual St. Pat's festivities is an orchestra featured that is comparable to that of Emil Velazco's. The two talented vocalists should prove to be very outstanding in their renditions and the delightful personality of Helene Gray will undoubtedly attract the Miners. The St. Pat's Board has anticipated the desire of the student body to enjoy dancing to fine music and hopes the affair will be well attended. A large attendance will insure the featuring of more extraordinary dance orchestras in the future.

Superb Lecture By Dr. Dole

Northwestern U. Scientist Shows What a Major Research Problem Is Like

Dr. Malcolm Dole of Northwestern University honored us last Wednesday evening by presenting a lecture on his researches in the field of hydrogen and oxygen isotopes. The molecular weight as shown on the periodic chart of the elements were heretofore thought to be absolutely constant as the percentage mixtures of the various isotopes of the elements were quite variable by forming water from oxygen and hydrogen obtained from different sources i. e., tank or commercial oxygen, oxygen obtained from electrolysis of water, and oxygen from the air; and then carefully measuring the densities of the several samples of

Continued on page four

Newstaedter, '16, Addresses A.I.M.E.

Advises Miners From 21 Years Experience in Mineral Industry

Mr. H. A. Newstaedter, '16, consulting mining engineer, speaking from his twenty-one years of experience in the mineral industry, gave a talk of anecdote and advice before the A. I. M. E. local group Friday night, Nov. 5, in the Geology Lecture Room.

Mr. H. A. Newstaedter, son of an M. S. M. mining engineer alumnus and father of an M. S. M. student to be (next year), has had a full

Continued on page six

Tau Beta Pi Initiates Nine

Father Macelwane Speaks at Banquet

The Missouri Beta Chapter of Tau Beta Pi held its semi-annual banquet and initiation last Thursday, November 4. The initiation ceremony was held in the Club room at 8:30 that afternoon. Those initiated were Robert Perdue Alger, Edward Albert Ballman, Roy Charles Cornett, Joseph Craig Ellis, Donald Richard Jaenecke, Fredrick Morrison, John August Short, and Homer Stokes, all of the Class of 1938. The ninth initiate was William Reed Ellis, honor man of the Class of 1939. The initiation was conducted by the local chapter.

The banquet was given at the Sinclair Pennant Tavern that night at 6:15. Toastmaster was Prof. David F. Walsh of the Department of Metallurgy. Dr. H. A. Buehler, State Geologist, made the introductory speech to the new members. His speech was in the nature of a "pep" talk. He explained the aims and goals of Tau Beta Pi and what was expected of its members. Bob Alger made the reply to Buehler's address on behalf of the initiates. Frederick Morri-

Continued on page four

When? What? Where?

Wednesday, November 10

St. Pat's Board, 7:00 p. m., 104 Norwood Hall
A. I. E. E., 7:30 p. m. Norwood Hall
University Dame s, 7:00 p. m., Club Room

Thursday, November 11

Theta Tau, 7:00 p. m., Club Room

Saturday, November 13

Junior Club Dance, Jackling Gymnasium
General Lectures, Mr. Priestley, 8 p. m., Auditorium
Football, Miners vs Springfield—Here

Monday, November 15

Community Chorus, 7:00 p. m., 104 Norwood Hall
A. S. M. E., 7:30 p. m., 204 Mech.

Tuesday, November 16

Sigma Xi

Wednesday, November 17

Alpha Chi Sigma, 7:00 p. m., Chem. Bldg.
Blue Key, 7:30 p. m., Club Room

THE MISSOURI MINER



Official Publication by the Students of the
MISSOURI SCHOOL OF MINES AND METALLURGY,
in the Interest of the Alumni, Students and Faculty

1937 Member 1938

Associated Collegiate Press

Distributor of
Collegiate Digest

REPRESENTED FOR NATIONAL ADVERTISING BY
National Advertising Service, Inc.
College Publishers Representative
420 MADISON AVE. NEW YORK, N. Y.
CHICAGO - BOSTON - SAN FRANCISCO
LOS ANGELES - PORTLAND - SEATTLE

Published every Wednesday during the college year

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FACULTY ADVISER DR. J. W. BARLEY

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

Subscription Price

Domestic, \$1.50 per year; Foreign, \$2.00; Single Copy 8 cents

CHEER UP, CHEMISTS

Last week we published part of the E. C. P. D.'s report on accredited curricula. In their report it was stated that their accrediting committees represent most of the major engineering organizations of the United States, as the A. I. E. E., A. S. M. E., etc. Since then we have learned from several reliable sources that this is not true in the case of chemical engineering, and that their report is misleading in this particular.

The American Institute of Chemical Engineers alone passed on the accrediting of the chemical engineering curricula. In the past two years only four schools have been added to the Institute's accredited list. Had some thirty or forty schools been accredited in this period, as appears from the report, and the School of Mines left out, we might feel that we are lacking. But only four schools west of the Mississippi are accredited by the Institute, and it is ridiculous to suppose that this represents the total of worthy chemical engineering schools in the western half of the country.

The Missouri School of Mines' representation is strong enough to stand on its own feet, and until the E. C. P. D. can make its reports really mean something, in this particular we must take them with the proverbial grain of salt.

M.S.M.

AT LAST?

Prospects for a new building begin to appear good. A hydraulics laboratory building is in the offering. It will take care of most of the C. E. Department and free more room in Norwood Hall for the use of other departments. Let's hope we get it, for the enrollment next year is expected to approach 850, and where we can put all of them no one knows. Every bit of additional room will be needed. There is nothing certain about this building yet, but we will know more shortly.

CIVIL SERVICE EXAMINATIONS ANNOUNCED

The United States Civil Service Commission has announced open competitive examinations as follows:

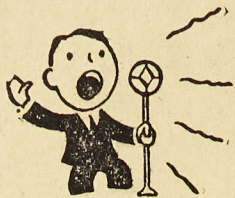
Associate meteorologist, \$3,200 a year; assistant meteorologist \$2,600 a year; Weather Bureau, Department of Agriculture.

Junior medical officer (rotating internship), \$2,000 a year; junior medical officer (psychiatric resi-

dent), \$2,000 a year, St. Elizabeths Hospital, Department of the Interior, Washington, D. C.

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

Chief: "What did you have for chow (dinner)?"
Boot: "Chicken."
Chief: "Croquette?"
Boot: "No! but I'm sick."



STATION

J-I-G

Chatter About This'n That

Its writing time again studes, so I'm off for another attempt to make this thing readable for those of you that do read it. If any of you have anything that you would like to place in print, (be sure its printable) send it to the Ed., and he'll be glad to let the dirt out. Take it easy, though, cause we don't want any civil strife within our institution.

You know, sometime I'm going to sneak around during the week and collect a lot of the info that is on hand to get. Trouble with last was that you couldn't find any "scholars" on the street, unless they were on their way to the local gyp joint to feed up a bit. The way everyone cracked the books then was something to be remembered, though I can't see much evidence of it on the little card that is so obligingly sent to the paters and maters.

I know, you're getting tired of the dull stuff and want the worst I have. Tell you the truth, I haven't been able to get a thing on any one, with the exception of the Hoffman-McCrae affair. That is really blossoming into something; look around and see for yourself.

The spotlight for the week's social high goes to the independent organization on the campus. Held in the gym last Saturday night, dancing couples swayed and swung to the music of Gilmore, with an occasional lyric by the maestro and bugle boy Sam. Heard only one discouraging thing about that affair, and that was the presence of the overly large stag line in the middle of the floor. Why don't you fellows take to the walls, where most of you belong. I don't even have to mention flowers for most of you to catch that one, but it really is the truth. Those men who are nice enough (and it is an outstanding achievement) to escort a date to a gym dance, would certainly appreciate dancing one or two dances in the middle of the floor, and with their date. What say we all try it at the Junior Clubs Charity Ball to be given Saturday. —more about that later—Anybody know why Joe C. was so interested in finding one or two of the Wisconsin Miners Saturday night?

Every time Gilmore turned around there was Joe wanting some body to give a hog call for his buddies. Hear some stories about their whereabouts, but I guess I had better check up on them before I tell any-one they were not exactly in a state of somnolence. Sorry about that one, it slipped.

Throat cutting was at a low ebb, as far as the late dates go, but there will be other parties, so just wait. Wonder why the Sig Pi's have a habit of leaving the dances about intermission and then forgetting to return? Can any one enlighten us on this subject? Oh well, you probably think I am talking in circles by now, soooooooo.

See by the calander that we are having a home game with Dear Old Springfield this Saturday fellows. My, my, what a terrific battle that should be. Never-the-less, lets see how many of you can make that game, and also the dance that evening.

With the reputation the Junior Club has for giving swell dances, there shouldn't be any of you that are hesitant about taking it. Here's a rather public tip; better learn the 'Big Apple', cause Gil-

more will be playing it, and the girls will be dancing it; if things go well.

Oh yes, thought "tea parties" were things not to be talked about, but it seems as if you can't hold good news down. I'll try to be a little more discreet next time "Dull," old man. Pardon me, the name is "Sharp" isn't it. Terrible mistake.

Gotta close shop now, you've read too much to do me any good any how, so with a last reminder to you all to see the show about college and find out what it is like, you will have to wait 'til next issue comes out to hear some real dirt. I hope I can still write by them, but one never knows what one will find at "tea parties".

M.S.M.

RED CROSS CALL

Every citizen of the United States breathed a prayer of thanksgiving for the American Red Cross during the devastating floods along the Ohio River last winter. Again the value of an organization able to rush to administer aid and relief under conditions of the direst extremities was demonstrated. Thru the speedy marshalling of forces hundreds of lives were saved. In the dragging days that followed it was still the Red Cross that rehabilitated thousands of families in the expenditure of millions of dollars, re-awakening the faith and hope of these stricken people.

Though the disaster relief is the most spectacular it is but one of the services rendered by the Red Cross. Protection of health, first aid, in accidents, relief to veterans and their dependants, life saving and training in the Junior Red Cross are all made possible through your membership in the American Red Cross.

The Annual Roll Call in Rolla will be held during the week of November 15. Enroll under the banner of mercy of the Greatest Mother.

ALBERT H. FAY

Albert H. Fay, '02, died on Aug. 7. He had been suffering from a chronic ailment for two or three years, and finally was operated on at the University of Pennsylvania Hospital on Aug. 2, from which operation he never recovered. Interment was made at Westboro, Mass.

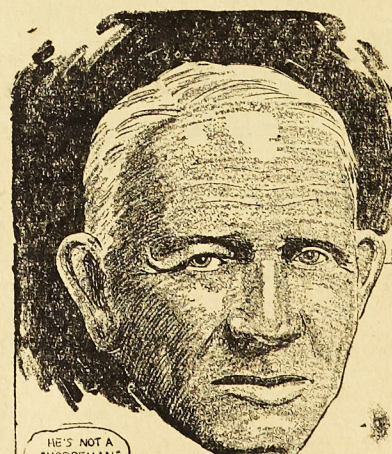
Mr. Fay was born in Missouri on March 12, 1871. He first took a business course and later engaged in clerical work for the Copper Queen Consolidated Mining Co., at Bisbee, Arizona. This led him to take the mining engineering course at the Missouri School of Mines, from which he graduated with a B. S. in 1902. He then came to New York as an assistant in the office of the Secretary of the A. I. M. E., Dr. Raymond. In 1903, he went to Cananea, Mexico, as mining engineer for the Cananea Consolidated Copper Co. Later he went to Alaska as superintendent for the Bartels Tin Mining Co., and from 1907 to 1908 was at Bristol, Tenn., as mining engineer for John T. Williams and Son.

The next three years Mr. Fay spent again in New York on the editorial staff of the Engineering and Mining Journal, and as editor of Vol. 19 of "The Mineral Industry." From 1911 to 1920, he was with the Bureau of Mines in Washington, preparing several of its important bulletins. The next three years found him heading the natural resources division of the Internal Revenue Bureau. From 1923 to 1925, he was engaged in consulting work, following which he was again assistant editor for the E. and M. J. for two years under Spurr. After leaving that job he was in Russia for a year. For the last few years he has been assistant professor of mining engineering at Lafayette College, Easton, Pa.

Professor Fay's most notable work was the compilation of Bulletin 95 of the Bureau of Mines—"A Glossary of the Mining and Mineral Industry," defining 20,000 terms. It was an excellent job and ever since it was published has been the standard reference work on the subject. Originally sold for 75c. Copies now are worth in the neighborhood of \$10.

In his long professional career and while at Lafayette, Fay made many friends who will regret the passing of a capable engineer and a most likeable personality. His son, Albert H. Fay, Jr., carries the name along on the rolls of the A. I. M. E.

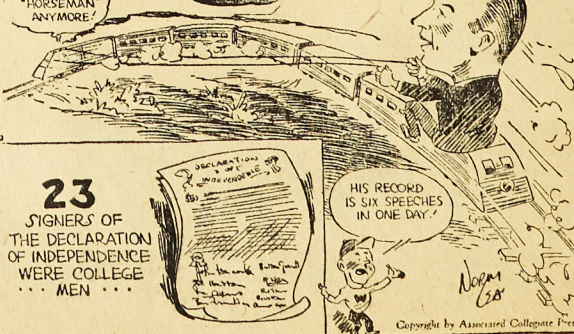
Eyes Over The Campus



ECKSTEIN CASE

HAS SIGNED ALL BUT 18 OF THE DIPLOMAS GRANTED BY CASE SCHOOL OF APPLIED SCIENCE AND BEEN PRESENT AT FIFTY COMMENCEMENTS!

DURING HIS FIRST TEN MONTHS AS ATHLETIC DIRECTOR AT WISCONSIN, COACH HARRY STUHLREHER TRAVELED 25,000 MILES AND MADE 175 PUBLIC ADDRESSES!



23 SIGNERS OF THE DECLARATION OF INDEPENDENCE WERE COLLEGE MEN

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OKLAHOMA CITY UNIVERSITY 19, MINERS 7

By B. C. Compton

Last Friday was Nov. 5, but that isn't the reason that particular day is going down in history.

The reason why? The Oklahoma City football team won a game. And when the O. C. U. eleven can win a game that's news, for the Goldbugs lost seven straight games before the Miners invaded the oil city. Now the Bugs have their first victory and the "large" Homecoming crowd of perhaps, 1500 people, are satisfied.

The score? 19-7 and the Goldbugs were on the long end of the score. After scoring in the second quarter and leading at the half, 6 to 0, the Bugs came back to again cross the Miner payoff counter in the third and fourth quarters, and before the Silver and Gold machine functioned, the Bugs were leading 19-0.

What happened to the Miner team? They were badly outclassed, not only by a heavier outfit, but by a smarter, tougher team that wanted badly to win a game. There is no doubt that the O. C. U. eleven was much the better team.

They proved it in the first few minutes of the game. Taking the kickoff they marched down the field, using a "spread" formation by setting their ends out wide. This crossed the Miner defense up, although the team had worked out against the same offense last week in practice.

However what threat the Goldbugs offered was stopped when their center centered the ball back over the tail backs head and the Miner forward had chased the elusive pigskin over half the field before a gold jersey recovered the ball.

The rest of the quarter was merely straight football with both teams failing to do much damage. The Bugs gained at will until they had to pick up a few yards for a

first down. Then they failed and as the result they didn't offer much of an threat. On the other hand the Miners could not make their plays work against the heavy Bug line and they to didn't get near the pay off counter.

Late in the period the first break of the game came. Otis Taylor attempted a quick kick which was partially blocked. The ball sailed into the air and an O. C. U. man recovered. Just then the quarter came to an end. With the resumption of play the two line bucks put the oval on the Miner ten-yard line, from where halfback Jack Nobel took it over on an end run. Noble barely made it on the play, having brushed the out of bounds red flag.

The rest of the quarter found both teams coasting along without much of a chance to score.

As the teams came back on the field at the start of the second half it was apparent that the O. C. U. eleven meant business, although they were kept from going to work on the Miner halfbacks because the Miners had the ball. As soon as the Goldbugs had possession of the pigskin they went to town. From the Miner 32-yard stripe, where they had intercepted a Miner pass, they went down the field, the march coming to an end when Noble crossed the line, again on an end run, from the 11. Payne, a sub, come into the scrap to kick the point but his try was wide.

After this score the Miners came to life and started looking like a football team again. Showing a determined offense for the first time they started to town and picked up 32 yards by some excellent running plays. Then when they were on the Bugs 24-yard line the sparkplug fouled, and the Bugs took over the ball on downs. A long punt placed the Miners on their own 28. A fumbled lateral, which O. C. U. recovered, set up the last touchdown for the oil workers. A series of plays, which the discouraged Miners could not stop, took the pigskin over the line, Herschel Tipps scoring. Tipps then converted and the score was 19-0.

The thoroughly aroused Miners took the ball on their own 20-yard line and marched down the field for their only score. On the Bug 11 Otis Taylor faded back to toss a pass to Joe Murphy who slipped over the goal line before the Bugs were aware of what was going on. Jim Taylor then placekicked the extra point.

Shortly afterwards the game ended with the Miners again in possession of the ball.

The game was featured by the Bugs aerial attack that found them completing 9 out of 19 for a total of 144 yards. Time after time they would cross the Miner secondary up and complete short passes for substantial gains although at no time were they in a position to score on one of them.

Among the Miner stars were John Kirwan, husky guard, who was painfully injured when kicked in the mouth during the last period. Kirwan was removed to the

COMPTON SAYS

Impressions gained from the Oklahoma City trip were many and varied but quite a few cannot be given, some because of specific requests and others . . . oh well, just because.

Something was apparently lacking in the game, and to say just what it was, is hard to do. The Miners showed flashes of power and at times looked like a team that could gain at will. Unfortunately that was only at moments that soon passed. The only sustained drive was made in the waning minutes of the game when the Miners finally crossed the O. C. U. goal line.

On the defense the Silver and Gold edition looked exactly the same. On one play the forward wall would charge in and stop the runner before he reached the line of scrimmage. On the next play the hole would open up and the runner would drive through for ten or twelve yards, only to bowled over by the secondary.

The Goldbugs used a spread formation quite a bit and it sure confused the Miners. The ends would sit out wide, catch short flat passes and pick up ten yards before the halfbacks could slice over to them.

The Goldbugs played an extremely rough, and sorry to say, a dirty type of football. All the players had cleat marks on their body and John Kirwan was painfully injured AFTER A PLAY WAS OVER when he was kicked in the face.

The team left Rolla at 9:07 Thursday night and arrived in Oklahoma City, the next morning at 8, had breakfast and then went on a trip through the oil fields. The trip was conducted by M. S. M. grads who apparently are doing right well in the petroleum profession.

During the half the lights were dimmed and the Goldbug rooters paraded up and down the field carrying torches and went into an "O. C. U." formation with a large band furnishing the music. In the rear of the parade marched the "large" group of alumni of the institution. Incidentally the game was the feature of Homecoming.

Looking over the M. I. A. A. results of last week we find that Kirksville has advanced to third place as the result of their win over Springfield. The Bear-Bulldogs affair was the only loop game scheduled for the week-end.

INTRAMURAL

BASKETBALL

Practice sessions for basketball during this week will be as follows:

Monday from 7:30 to 8:15, Freshmen; from 8:15 to 9, Sophomores; from 9 until 9:45, Alpha Lambda Tau.

Tuesday from 7:30 to 8:15, Kappa Sigma; from 8:15 to 9, Triangle; from 9 to 9:45, Sigma Pi.

Wednesday from 7:30 to 8:15, Theta Kappa Phi; from 8:15 to 9, Sigma Nu; from 9 to 9:45, Lambda Chi Alpha.

Thursday from 7:30 to 8:30, Seniors; from 8:30 to 9:30, Kappa Alpha.

Friday from 7:30 to 8:30, Juniors; from 8:30 to 9:30, Pi Kappa Alpha.

INTRAMURAL

The Intramural season was supposed to be played off as to schedule, but rain and other factors have prevented all matches to be played. Ping Pong is the only one that has stuck to ritual. Some of

sideline and a doctor summoned from the stands. Later it was found that he suffered a cut lip but nothing serious.

Dick Prough, who was acting captain for the struggle, put up a good game, as did Joe Murphy, Bob Nevins and Carl Lintner.

The lineups:
O.C.U. Miners
Moss I.e. Nevins
Tennant I.t. Prough (C)
Bowen I.g. Stallman
Neill c Spafford
Turrill r.g. Curtis
Hays r. t. Flanary
Sas r. e. Lintner
Carmack q. b. Koziatsek
White l. h. O. Taylor
Nobels r. h. Ladd
Tipps f. b. Pomeroy
Substitutes.—Miners; Klug, Rogers, Kirwan, Axthelm, Loveridge, Jim Taylor, Hart, Baumstark, Cunningham, Machen, Kiesler.
O. C. U.—Barton, Droll, Thompson, Harris, Payne, Branhan, Greenhaw, Carmack, Holstein, Black.

Officials: Haller, referee; Kurtz, Umpire and Gardner, linesman.

PAY DIRT

Well, they say that mid-semester grades don't mean much anyhow. Maybe I was wrong about J. I. G.'s broken nose, but it is out of joint at least. How about it "Swing-Time?" Homer is rally hard up for space when he makes his feeble effort at a Junior Club plug to the tune of about ten lines. No that wasn't a parade you guys saw the other day, it was half of the student body following the town's "newest beauty"? Watkins is the handle I hear, but more news to follow about it all. In the near future I hope. (Merely from a literary standpoint S. R.) Boy, I guess Claridge didn't stick his foot into several things during the absence of ye Ed. Instead of cutting out me and Homer (as has been rumored), they might cut out the whole paper. Have you been (awakened at the crack of dawn lately by a sweet voice on the telephone announcing that "the new Super-Whooper-Drooper cars are in town?" Nuts!

Swingings

Newest nifty is "I Want You For Christmas", and Lombardo does it nicely in spite of being Lombardo. You'll like Reggie Childs' band, patterned after Kemp. (W. L. W. 10:30) For the first time in three years Bernie Cummins is recording again. Of four for Decca "Mama I Wanna Make Music" is the best, with plattermate "Lady Is A Tramp" done by Connie Bar-leau, a close second. Three best comers at the present are: "Ten Pretty Girls", "Everything You Said Came True", and "The Greatest Mistake Of My Life". Tuneal Varsity Show at the Rollamo on Sunday is too long but well worth your thirty-six cents. Ain't it awful?—C. S.

PROGRAM

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THROUGH THE TRANSIT

by homer bru. . .

Shucks—I've been waiting a year for the Junior Club Dance, cause I do like Barn Dances, but now I find we are to have the regular type. I shouldn't intimate that it is an ordinary dance either—cause they always manage to have just a bit above the best at every thing they do. . . I ain't fooling either. You're bound to have a swell time if you go. . . Let's all be there. . . the cause deserves the effort. . . Does an orchestra leader pat himself on the back with his hand on a baton? Perhaps Station J. I. G. will best answer that. . . Change one call letter and you have the answer is my guess. . . Try as it may the cold weather is having trouble putting dampers on the 'summer drink busts'. After all things were always a bit different down here at Rolla. Since the first half is over, if the score reads too badly against you I hear that the weather is perfect in California this time of the year. I have been considering the trip rather seriously. . . don't be surprised if your friend (at least some still call me that) homer bru fails to show up some week. . . Have you dropped an ear about the room where Prof. Farnham is and has been putting out 'Fields of Force' in good old Norwood? I was baffled

CALL 163

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PHONE 496

CO. LUMBER
HERMAN

for a time or two myself, I thought we had a course in Greek too. . . The senior Miners are all hoping. . . that's their only defense now. . . Good old St. Pat isn't fooling around about having good music this year. Let's show our appreciation and get in to the swing of things and attend the dances. The big affair the 20th will be really swell from the music end. See you stomping. . . Have you been following the Army football team this year. . . Stella, Sigma Nu, '39 is a spark plug in the line. . . He'll be big news before he finishes the Point. . . Leaving for a week—How are you fixed for faults?

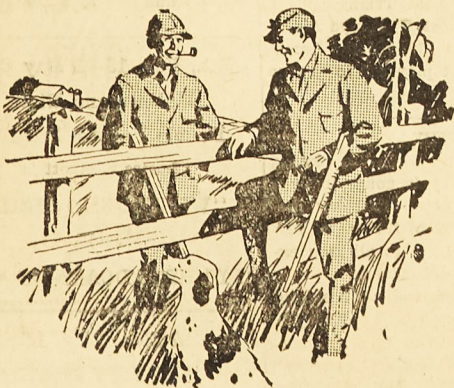
STUDENT COUNCIL MEETS

The Student Council held its regularly monthly meeting Wednesday, November 3. Most of the business under consideration was old business carried over from the last meeting, including a report from the flag committee, a report from the "shingle" committee, a discussion of stunt night, and a discussion of a way to keep the gym open later at night especially since basketball practice has begun. A committee was appointed to investigate this matter.

The Freshman Class was assessed for the cost of the refreshment stand which was burned at the last pep meeting. The Freshman-Sophomore football game was also discussed. The Council decided that if the Freshmen win the game they will be allowed to burn their caps. A motion was passed to request the Sophomore Class to enforce the Freshmen Rules as set forth by the Council. After a brief discussion of the Rollamo, and of the pictures to be taken for it, the Council adjourned.

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STUDENT CHAPTER OF SOCIETY OF AMERICAN MILITARY ENGINEERS INSTALLED ON CAMPUS

Faculty Approves Installation of The Society of American Military Engineers.

Continued from Page One

ica are known throughout the world for their services rendered during the World War. It is one of the objects of this organization to preserve the memory of services rendered by the engineering profession throughout the wars in which the United States has been engaged. The organization is composed of engineers and others who believe that the lessons of the past should be preserved and studied as a guide to the future, and who deem it their duty to assist the nation in the work of preparedness, and to save it, so far as they can, from the spirit of indifference and unreadiness into which this country has so quickly lapsed after every war in which it has been engaged.

The Society was organized in 1920 and incorporated in 1924 under the laws of the District of Columbia. The belief in national preparedness is the chief qualification for membership in the S. A. M. E. In order that the society membership may cover a broad field, different classes of membership have been established. Except for the right to vote, there is little material difference in the classes of membership. Nearly eighty-five per cent of its membership is drawn from persons now in civil life and includes many able and widely known engineers. The Society truly represents the new military policy of the United States, which places its main reliance in the civilian, rather than in the professional soldier.

M.S.M.

TAU BETA PI INITIATES NINE PLEDGES

Father Macelwane Speaks at Banquet

Continued from page one.

son received the prize given for the best essay written by the pledges. R. G. Prough, president of the Beta Chapter, then introduced Father J. B. Macelwane, S. J., the speaker of the evening. Father Macelwane is head of the Graduate School of Physics at St. Louis University and is a world renowned authority on earthquakes. Seismograph records of earth tremors are sent to him from all over the world and he correlates the data obtained from the graphs and forwards the news to the newspapers throughout the world.

Father Macelwane spoke on "Geophysical Methods as Applied to Prospecting." His talk was concerned mainly with the use of the seismograph in petroleum prospecting. He told of its use in the discovering of new oil fields. He gave a thorough description of how the seismograph works and the principles upon which its use depends. Father Macelwane illustrated his lecture with numerous slides showing the methods and equipment used in seismic prospecting. At the conclusion of his address, Father Macelwane answered several questions asked by the professors and students present.

M.S.M.

Working for the elimination of permanent injuries and deaths from accidents, the Red Cross last year trained 256,884 persons in the administration of first aid, as well as 81,291 persons in life saving. Demonstrate your interest in such work by becoming a member of the Red Cross during the annual Roll Call, Armistice Day to Thanksgiving Day.

DR. MALCOLM DOLE ADDRESSES ASSEMBLY ON ISOTOPE RESEARCHES

Continued from page one

water formed. Much to the consternation of Dr. Dole and other chemists, these densities varied by relatively great amounts. The differences in densities of water obtained from different sources are explained by the different percentage mixtures of water with molecular weight of 18 and heavy water formed by the union of heavier isotopes of hydrogen and oxygen. Dr. Dole found that "normal water" or water obtained from the air contained six parts of "heavy water" per million. This differs from the mixture existing in the sea, in lakes, and in water formed by burning various organic compounds.

The only plausible explanation for this inconsistency of molecular weights in nature which Dr. Dole could offer at the time was that sea water evaporated, "rose to the stratosphere, and the mixtures of different weights were fractionated. By substituting the values representing the conditions in the stratosphere in sundry fundamental equations, Dr. Dole arrived at the same results shown in his very delicate experiments, namely that the mixture of isotopes in "normal water" is six parts per million. Thus corroborated, the conclusions of these revolutionary researches may be taken as true, and if thus taken, open a new field of chemistry, or rather fundamentally changes an old field of "parts per thousand and ten thousands" into, to use Dr. Dole's expression "a science of parts per million".

The lecture was superb from both a scientific and an academic point of view. It was attended by a fine representation from both the faculty and the student body. The next visit to this campus some time in the future is awaited by everyone who was present.

This lecture was made available to the chemists of Rolla through the efforts of the American Chemical Society which arranged a two weeks' lecture tour for Dr. Dole before the local sections of the middle west. It was sponsored on this campus by the Ira Remsen and Alpha Chi Sigma, chemical engineering societies.

M.S.M.

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WALTER W. WISHON

Walter W. Wishon '81, mining and metallurgical engineer, died May 22, at the Cedar of Lebanon Hospital, Los Angeles, of cardiac asthma. At the time of his death he was president of the Wishon Mining Co., and was interested in the Lucky Bird Mine in Arizona.

He was born in Rolla, Mo., March 26, 1862, and was a graduate of the Missouri School of Mines, class of 1881. He had been a member of the A. I. M. E. for 55 years, and in 1932 he was advanced to the Legion of Honor in recognition of fifty years' service as a member of the Institute.

He spent fourteen years in Butte, during which time he served as assistant chemist for the Parrot Copper and Smelting Co., superintendent of the Montana Ore Purchasing and Selling Works, and superintendent of the Ramsdell Parrot Co. For five years he served as manager of the Speculator mine which later was turned over to the North Butte interests. On Aug. 3, 1909, he married Margaret Storebeck, of Butte.

From 1906 to 1912, he headed the Austin Manhattan organization at Austin, Nev., and also was in charge of several mines near Searchlight, Nev. He then moved to Arizona and organized his own company. Since 1924, he had been doing consulting engineering work.

DR. MANN LECTURES TO A.S.C.E. ON FIRST C. E. PROFESSOR AT M. S. M.

Although the A. S. C. E. had not held a meeting in several weeks, the members who attended the lecture by "Doc" Mann Tuesday night, Nov. 2, were well satisfied to have waited for such an interesting and informative lecture.

Doctor Mann has spent many hours in searching for information concerning the history of M. S. M. and biographies of its faculty and alumni. He quoted information sent to him by the War Department.

For the benefit of those "Civils" who were unable to attend and the information of those who are interested in our school and its traditions, we present a summary of the talk made by Doctor Mann.

Lieut. James W. Abert was born in 1820 in New Jersey. His grandfather came to America from France with Rochameau. In 1835, he entered the Sophomore class, Princeton College, graduating in 1838. Immediately thereafter, he was appointed a cadet at West Point from which he graduated in 1842. He was well trained in biology, geology, painting, sketching, and mechanical drawing—training which helped him in his later work among the first topographers in the west. In 1843, he was transferred to the Topographic Engineers' Corps of which his father was Chief. He advanced rapidly in rank, and in 1863 he was commissioned

as a major. While he was yet a Lieutenant, he did most of his work on the topographical development of the western rivers which led him into much adventure and made his name known.

He was a member of Fremont's famous detail outfitted in St. Louis, and in 1846, Albert and three other Lieutenants joined Col. Kearny at Leavenworth to survey Wansas, Colorado, Texas and Oklahoma. After a hard journey, following the Santa Fe Trail, characterized by blisters, cactus and fever, the party arrived at Fort Bent. Albert remained. Indian friends collected geological and botanical specimens for him.

Albert kept a daily diary of events, now in the Library of Congress, which reveals him as modest and unassuming, yet which places him in a place of honor among the pioneers of the early west.

From his diary, we learn that Albert's party drove cattle along with them, but depended in great part on the hunter who had been taken along to provision the company. Mules were used for transportation.

The diary relates a colorful tale of near catastrophe and danger—precipitous cliffs, hostile roaming Indian tribes, cold hunger. His party was once mistaken for Texans, but was saved by coincidence, for the leader of the band recognized Albert who had painted one of his tribe.

Kearny was meanwhile making preparations to march to California and had left just the day previous to Albert's arrival at Santa Fe, leaving instructions for Albert's detail to map New Mexico. The first map of New Mexico was made by Albert and his detail.

Mexican interference finally stopped his work; he decided to give up further topographical development of the area at that time. A message from Washington made him decide to return to Washington immediately although a winter trip over the open plains was dangerous.

On their first day out his party lost its way, but was fortunate in finding a lone trapper who gave it directions.

Further misfortune lay ahead. Half of his crew of 14 men caught the measles and were left at Fort Bent. Several blizzards slowed their progress. The mules were stolen by Indians, and the men took their places and pulled the wagons over the slippery ice and unmarked plains and hills. Finally, they were met by a detachment from Leavenworth.

Soon after he became a Major, he retired because of his wife's illness. In 1872, he became the first M. S. M. Professor of Civil Engineering and also taught drawing. He resigned from this position and retired from professional work in 1877 because of failing eyesight.

Dr. Mann showed slides of past directors and old alumni of the school.

Members of the Student Chapter of the A. S. C. E. are to receive free copies of the special Student Edition of the journal, Civil Engineering.

—M.S.M.—

A. S. M. Shows Film—"The Metallurgy of Copper"

Friday morning at 11 o'clock the M. S. M. group of the American Society for Metals showed a picture on the metallurgy of copper, obtained from the U. S. Bureau of Mines and Metallurgy. Students from all curricula were invited to attend, and a good number were in Parker Hall for the picture.

The film outlined the processing of copper from the ore stock piles to the finished stock in sheet and wire form, and was divided into three parts: Smelting, Refining, and Fabrication.

Several shots were shown of smelting plants at the mines in Nevada, Arizona, and Montana, then the film took us on an inspection trip through one of the smelters. We were shown the unloading of the concentrates, the mixing of the ores, and the charging of the furnaces, the coarser ores, being smelted in blast furnaces, and the fine ores in reverberatory, was shown being charged into converters, in which a large part of the iron and sulphur as impurities are removed, leaving a product 99% pure, known as blister copper. The molten copper was held in storage ladles until it could be poured into molds. Some of the blister copper was cast directly into anodes for electrolytic refining, but most of it was cast into bars, to be remelted and formed into anodes at the refining plants in the East.

The scene was then shifted to one of the refineries in the East, where the bars of blister copper as received from the Western smelters are refined to practically pure copper by the electrolytic process. We were shown the metal as received at the refinery, and its preparation for the electrolytic tanks. The bars were remelted and air blown in over the mass to oxidize the impurities; and the metal was further purified before being tapped and cast into anode plates. The anodes were cooled by water spray, and conveyed to the tank room, a long, open room of electrolytic tanks. An overhead crane brought in the sets of anodes, heavy slabs of impure copper spaced closely together, and lowered them into long tanks filled with a copper sulphate solution. The cathodes, thin sheets of pure electrolytic copper, were then inserted alternately between the anodes, the current was turned on, and the tank left until completion of the electrolytic action. About 30 days are required to transfer approxi-

mately 80% of the anode copper to the pure cathode plates; and we saw the removal of the heavy plates of pure copper from one of the tanks after most of the anodes had been dissolved. Up until this stage of refining the small amounts of gold, silver, and platinum present the original copper had not been removed, and these metals were recovered from the sludge remaining in the bottom of the electrolytic tanks, and cast into bullion bars. We then saw the practically pure copper remelted and cast into bars for fabrication into wire, sheet, tubing, and other form for commercial use.

The picture then took us to a refinery and rolling mill at Baltimore, Maryland, where the electrolytic copper bars are formed into sheets and wire. Several good shots were shown of the successive stages in rolling the sheets to desired thicknesses; the annealing of the rolled sheets at carefully controlled temperatures; pickling in hot dilute sulphuric acid to remove scale and oxide formed in the rolling and annealing processes; and washing and drying of sheets. The process of thinning was shown, in which the molten tin is applied by hand to one side of the copper sheet. The copper sheets were then cold rolled, to give hardness and some finish to the copper. Final shots showed smoothing and leveling of the sheets by stretching; trimming the sheets to size; polishing by buffing; and rolling into bundles.

We were then shown the manufacture of copper wire. 250-pound bars were passed through successive rolling stages to reduce them to rods suitable for drawing. The film then showed the drawing of copper wire through dies, from heavy trolley cable down to the finest gauges. Diamond dies are used in drawing the finer sizes of copper wire. Next we saw the winding of copper wire into cables; the testing of wire and cable tensile strength; and rolling the wire and cable into reels in preparation for storage or shipment.

The picture as a whole gave a clear outline of the processes involved in the preparation of copper for the market, and was highly interesting even to those not technically trained or professionally interested in metallurgy.

—M.S.M.—

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JUST SLIPS ALONG



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'Oh, yes, he wears cork-soled shoes.'

Placing the Blame

'Have women improved politics?'

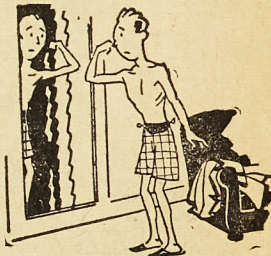
'Not yet,' answered Miss Cayenne. 'Men have been musing it up for so many centuries, it's a little hard to do anything with it.'

His Lucky Day

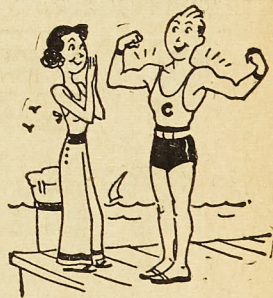
Men—Do you believe in luck?

Friend—Well, I should say I do. See that fat woman in the big hat and the red dress? Well, I once asked her to be my wife.

Skinny arms and skinny legs
Were the bane of Tony Meggs.



Laughing girls all passed him by,
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MR. H. A. NEWSTAEDTER, '16, TALKS BEFORE A. I. M. E.

Continued from page one.

and varied background in mining engineering. During his years in the mining game, Mr. Newstaedter has done at one time or other just about all that a mining engineer is qualified to do. He has explored territory in search for mining property, he has laid the plans and surveys for mines, he has supervised mining operations, he has designed apparatus for and supervised operations in ore concentration, and has written several technical articles on his experience and work.

During the last four years Mr. Newstaedter has looked over mining properties in Colorado, Wisconsin,

Utah, Wyoming, California, and other western states. A year ago he returned from a sojourn of one and a half years spent in the State of Guerrero, Mexico. Prior to 1932, when Mr. Newstaedter entered into consulting work, he had been with the Desloge Consolidated Lead Co., Desloge, Missouri, as assistant superintendent for twelve and a half years and then with the St. Joseph Lead Co. as assistant mine superintendent of the Federal Division from 1929 until 1932.

Into this life, well representative of the mining engineer, Mr. Newstaedter dipped for information that would benefit his student listeners. His talk he divided into the following subjects: the "Advantages of the A. I. M. E.," "Note Taking in School," "Writing," "Choice of

Work," "Policies of Companies," "Keeping Records of Work Done During a Job," the "Value of Traveling," and "Mining Operations," upon which he dwelt the longest.

Mr. Newstaedter's talk was necessarily of its general nature because the short notice upon which the meeting had been called had allowed him little time in which to prepare his address. The meeting was called at this time because Mr. Newstaedter, who has for the last two months been conducting on the campus floatation, roasting in the campus flitration, roasting upon some complex ores, is leaving town this week.

Despite its unexpectedness, a capacity crowd responded to the meeting notice posted by Mel Nickel, president of the M. S. M. affiliation

of the A. I. M. E.

M. S. M.

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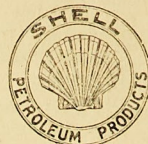
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