



17 Dec 1920

The Missouri Miner, December 17, 1920

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THE MISSOURI MINER



"GOOD NIGHT."

CHRISTMAS NUMBER

DECEMBER 17, 1920

The
Missouri Miner
Wishes You
A
Merry Christmas
And
A Happy New Year.

THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Vol. 7, No. 16.

Friday, December 17, 1920.

Price—This issue, 25 cents.

ST. PAT'S.

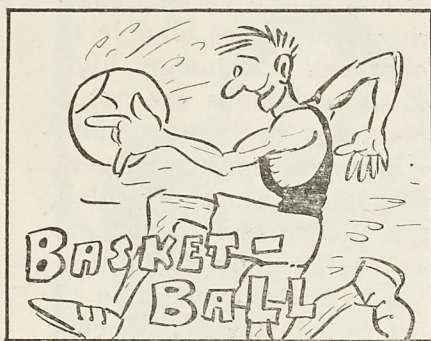
Every one who witnessed last year's St. Pat's celebration admits that it was a wonderful success. It being the custom that each succeeding Junior class outdo its predecessors, the present Junior Class wishes to announce that it has accepted the responsibility of producing even a better and greater St. Pat's than has ever been presented in the history of the school. The fact that this year is our Alma Mater's Fiftieth Anniversary demands that the Class of '22 expend every effort towards the fulfillment of the requirement which this responsibility represents.

The Junior Class has successfully managed the several St. Pat's benefits which have been given this past term. They have also appointed their various committees, elected their national St. Pat's convention delegate and secretary, and most important of all—they have paid their dues. They have outlined their plans for the entertainment, and are prepared to meet and overcome any obstacle that might arise. Every man is prepared for the hard work which is to be encountered in a large undertaking of this type.

At the last Junior Class meeting W. R. Gettler and W. H. Dunlop were elected as delegate and secretary respectively for the national St. Pat's convention, which is to be held at Iowa State College, Ames, Iowa, on January 10th and 11th.

The entertainment commit-

Continued on Page 24.



INTER-CLUB-FRATERNITY BASKETBALL.

Although handicapped by lack of practice and a late start, four teams are off for a triumphant beginning.

The first game on December 9th was won by the Bonanza Club, defeating Smiths by a score of 30 to 5.

In the second game scheduled the Independents swamped the Kappa Alpha's by a score of 44 to 8.

The Grubstakers and the Pi Kappa Alphas played the first real interesting and evenly matched game when the Grubstakers defeated the Pi K. A.'s by a close margin of 17 to 16. Each team was equally as good as the other and it would be a hard matter to distinguish between them. Zook for the Grubstakers accounting for ten points, and Signer for the Pi K. A.'s were no doubt the most brilliant and outstanding players, each covering the floor in an excellent manner.

On the 14th the Prospectors outplayed the Kappa Sigmas defeating them 39 to 9. Reeves, Kasel and Smith each played a good steady game.

Lambda Chi Alpha and

Continued on Page 24.

THE ADMINISTRATIVE ENGINEER.

Chair of Economics to be Installed at M. S. M. in Near Future.

Last summer the Board of Curators provided for a chair in Economics at the School of Mines, but no one could be found to take the place for this semester. However, Dr. Fulton has been working on the matter and corresponding with several men in the hopes of finding a suitable man for the position. He is in hopes of finding some one by January or February; but at all events the new courses in economics will be put into the curriculum by next fall.

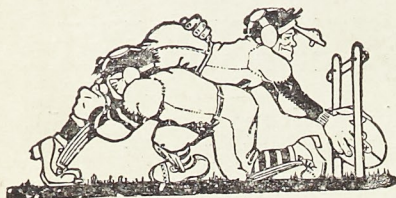
The courses offered will be along the following lines: The principles or basic laws of economics, such as supply and demand, labor and capital, stocks and bonds, etc.; History of Economics; Mining Economics, the Economics of Oil and Gas, such as the relation between international control and national supply, etc.; Economics of Mineral Distribution; and courses in Commerce in general, such as Efficiency, Management and Accounting, and many other courses along these lines.

The introduction of this department to the curriculum of the school marks a big step in getting away from teaching engineering as a trade to teaching it as a business. Just as any one with sufficient ability can become an engineer by long, hard work at the fundamentals in the School of Experience, so can the engineer, thru this same

Continued on Page 24.

JUNIORS TRIM FROSH 33 TO 0; NOW UNDISPUTED CHAMPS OF SCHOOL.

Frosh Team Unable to Hold the Plunging Junior Backs.



Last Saturday afternoon Rolla witnessed its first post-season football game in a number of years. The Frosh, who defeated the Sophomores some few weeks ago, were challenged by the Juniors to play a post-season game for the championship of the school. The present Junior class won its game when freshmen, and defeated the present Sophomore class last year; so when the frosh won the annual class game this year it fell to the Juniors to trot out their 'old steam roller' and teach the first year men a thing or two.

The game was called at 3:00 o'clock, and for a few minutes it looked like things were about even up, but the consistent pounding of the freshman line soon had its effect, and gains were made repeatedly. The first touchdown came when a blocked punt on the Frosh 15-yard line was picked up and carried over. During the second quarter the Junior backfield plunged thru the line almost at will, and scored the second counter, making the score 13 to 0 when the half ended.

The second half found the first year men trying their touted aerial attack, but with little success. Smith, the fast Freshman end who spelled disaster for the Sophomores, got away with a couple of passes, but for only short gains. The Frosh were unable to advance the ball

Continued on Page 23.

THETA TAU.

Theta Tau is a national professional engineering fraternity. Men in their Senior, Junior, or second semester of their Sophomore year, who are pursuing one of the various engineering courses are eligible to membership. Although high scholastic standings are not a prerequisite to membership, since many successful engineers were not of especially high rank in their classes at college. Theta Tau strongly encourages the study of the application of science to industry or engineering. It also endeavors to teach a correct view of the ethics governing the engineering profession.

The national fraternity has eleven chapters in the various engineering colleges of the United States of which Iota, the local chapter, was the ninth to be installed. It was established here in February of 1916. The fraternity also has alumni chapters at Chicago, Cleveland, Douglas, Ariz., Minneapolis, and Salt Lake City.

The local chapter has meetings every two weeks, at which talks on matters of general interest are given by members. Two banquets are given every school year in honor of newly initiated men. Iota chapter has one honorary member, H. A. Buehler, Director, Missouri Bureau of Geology and Mines.

THE ROLLAMO.

The 1921 Rollamo is scheduled to be off the press on April 20th, and we ask that you cooperate with us in order to make this possible.

You want the book before school is out, and we are doing our best to see that you get it. In order to insure the early delivery of the Rollamo, January 7th, 1921, is the last day on which pictures for cuts will be accepted.

ROLLAMO BOARD.

MISSOURI MINING AND METALLURGICAL ASSOCIATION.

Twenty-five years ago, in January, 1895, there was formed at M. S. M. a society for the promotion of interest in mining affairs known as the Missouri Mining Club. The Mining Club was a live organization, for in January and again in June of 1895 it published a bulletin.

In 1910 the Missouri Mining Association was organized with the same object as the Mining Club. The Mining Association has grown from year to year until in 1917, when everything became disorganized by the war, activities of the Association were suspended until in January, 1919 when it was again revived.

There were no former members of the Association still in school, so all the Seniors in the mining course got together and reorganized. G. F. Rackett was elected president, and H. H. Hoppock secretary-treasurer. Several interesting talks were given us during the semester.

In the fall of 1919 the Association got an early start. At its first meeting it was decided to change the name from the Missouri Mining Association to the Missouri Mining and Metallurgical Association, in order to give due recognition to the growing number of metallurgists. F. W. Uthoff was elected president, and W. F. Netzeband secretary-treasurer for the year. The Association had a very successful year, in that many meetings were held, and a number of very interesting speakers were obtained to lecture to the organization.

This year, due to the increase in school activities the Association had some difficulty in getting started, but they are now well under way with their activities. A. F. Delaloye was chosen president, and A. L.

Ackers secretary-treasurer.

Only one talk has been given so far this year, that of J. R. Guiteras, who spoke of his work with the Chile Exploration Company at Chuciquamata, Chile. Much is hoped for in the future.

The Association is affiliated with the American Institute of Mining and Metallurgical Engineers and any member of the Association is eligible to membership as a Junior Associate in the national organization.

Any man in the mining or metallurgical courses of the school with 63 hours credit is eligible to membership in this organization.

EDDIE BOHN MEMORIAL TO BE SELECTED.

During the past week M. H. Thornberry has received the following contributions to the Eddie Bohn Memorial Fund:

Football Team.....	\$8.50
Fred Matlack.....	5.00
Allan Potts.....	1.50
Ed. Hollow.....	1.00
"Jimmie" Gill.....	1.50
"Ted" Sherwood.....	2.00

The fund now totals \$230.76. Immediately following the holidays a committee composed of Dr. Fulton, two members of the faculty and a representative from every club, fraternity and school organization will meet to select the memorial.

Allan Potts, '20, formerly of the Vanadium Alloys Steel Co., Latrobe, Pa., arrived in Rolla last Monday for a short visit at the Grubstaker Club. Mr. Potts gave a very interesting lecture to the alloys class Tuesday morning.



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Silk, Linnen and Cotton

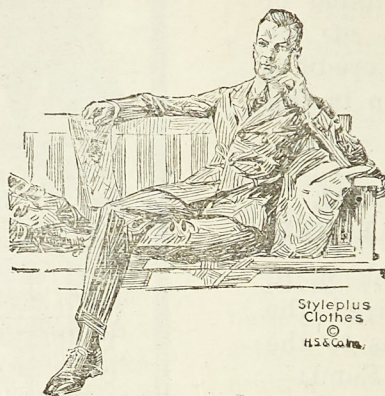
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Shirts

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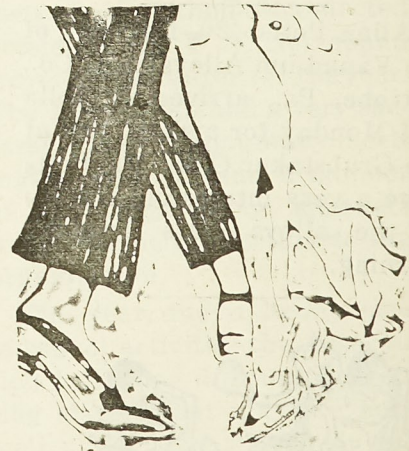
Do Your Christmas Shopping Early

R. O. T. C. CLOSES A SUCCESSFUL SEMESTER.

There has not been, since military training was established at this school, so thorough a course put before the students as that of the past semester. The work has been interesting, and the government of the students enrolled has been entirely lacking in that oppressive "hard boiled" attitude on the part of the Commandant, which has made this course so odious to the men in the past. Strict discipline is demanded, and, by hearty co-operation on the part of the students, is received.

Men in college like to be treated as men, and, when they do receive such treatment, are more than willing to treat the instructor fair in the matter of attention to the course. This, happily, is the condition now existing in the R. O. T. C. There is only one thing that, in the opinion of the Miner, should be observed somewhat more closely; that is the matter of dismissing the classes, both drill and lecture, at ten minutes to the hour. This has not quite been the case since the new ruling was established, but we feel sure that it will be lived up to

next semester.



Rat's eye view at the big
Miner Christmas Dance.



The Prof. always likes to hold the student till the last day with an exam.

PHI KAPPA PHI.

The honor society known as Phi Kappa Phi was established in 1897 at the University of Maine. Three years later chapters were established at the Pennsylvania State College and at the University of Tennessee. Since then the growth of the Society has been slow but steady, great care being taken to establish chapters only at such institutions as gave promise of holding up the high ideals of scholarship which were in the minds of the founders of the Society. At present there are twenty-four chapters and a membership of nearly five thousand.

The Society is different from all other societies in the fact that it recognizes high scholarship in all branches of learning. The member who meets another wearing the pin or key of the Society is sure of finding a fellow searcher after truth, no matter whether he be a linguist, a lawyer, an agriculturist or an engineer. The motto of the Society is "The Love of Learning Rules the World."

The chapter of the Missouri

School of Mines was installed last January by Professor G. W. Stephens of Washington University, a member of the Maine chapter. The chapter is quietly working out its plans for the betterment of scholarship in the school. The seven men ranking highest in the graduating class are eligible for membership each year. Surely such an honor coming at the end of four years of hard work is worthy of the best efforts of every man in school.

YES, DEAR!

"That," says he, "is a garter snake."

"That little thing" says she. "Why, it is ever so much too small!"

The silence was broken by the crash of a falling pin.

—Widow.

Judge: "Where did the automobile hit you?"

Rastus: "Well, jedge, if I'd been carrying a license number, it would have busted it plum to pieces."

—Awgwan.

MET. AND CHEM. SOCIETY.

The Met. and Chem. Society, which takes its membership from those men who intend to make some phase of metallurgy or chemistry their life work, has had a number of very successful meetings during this semester.

The officers for this year are: H. Taylor, President; P. H. Karges, Vice-President; and Otto Ehler, secretary and treasurer.

The object of the society is to present the various phases of practical work that the men have encountered in the industrial world, to have reviews and discussions on the most interesting and beneficial articles in the current technical journals, and to present men of prominence, who have something of vital importance for engineers.

The program during this semester has consisted of talks by H. Taylor, "The Relation Between the Research Laboratory and the Industrial Plant;" G. F. Metz, '14, of the Hardinge Company of New York, "Hardinge Ball Mills;" D. E. Huffman, "The Use of Powdered Coal in Lead Blast Furnaces," and B. Nudelman, who reviewed the talk of Dr. Chandler on "The Littlest Things in Chemistry."

The meetings are held on the first and third Friday evenings of each month in the Metallurgy Building. The Diphenyl Dozen, a chemical organization, has been a very great aid in assisting the society this semester. They were host to the society on Dec. 9th, when the new Physical Chemistry laboratory was given a formal christening.

CONFIDENT.

Fond Mother: "I hope that the young man never kissed you by surprise."

Daughter: "No, mother. He only thinks he does."—Widow.

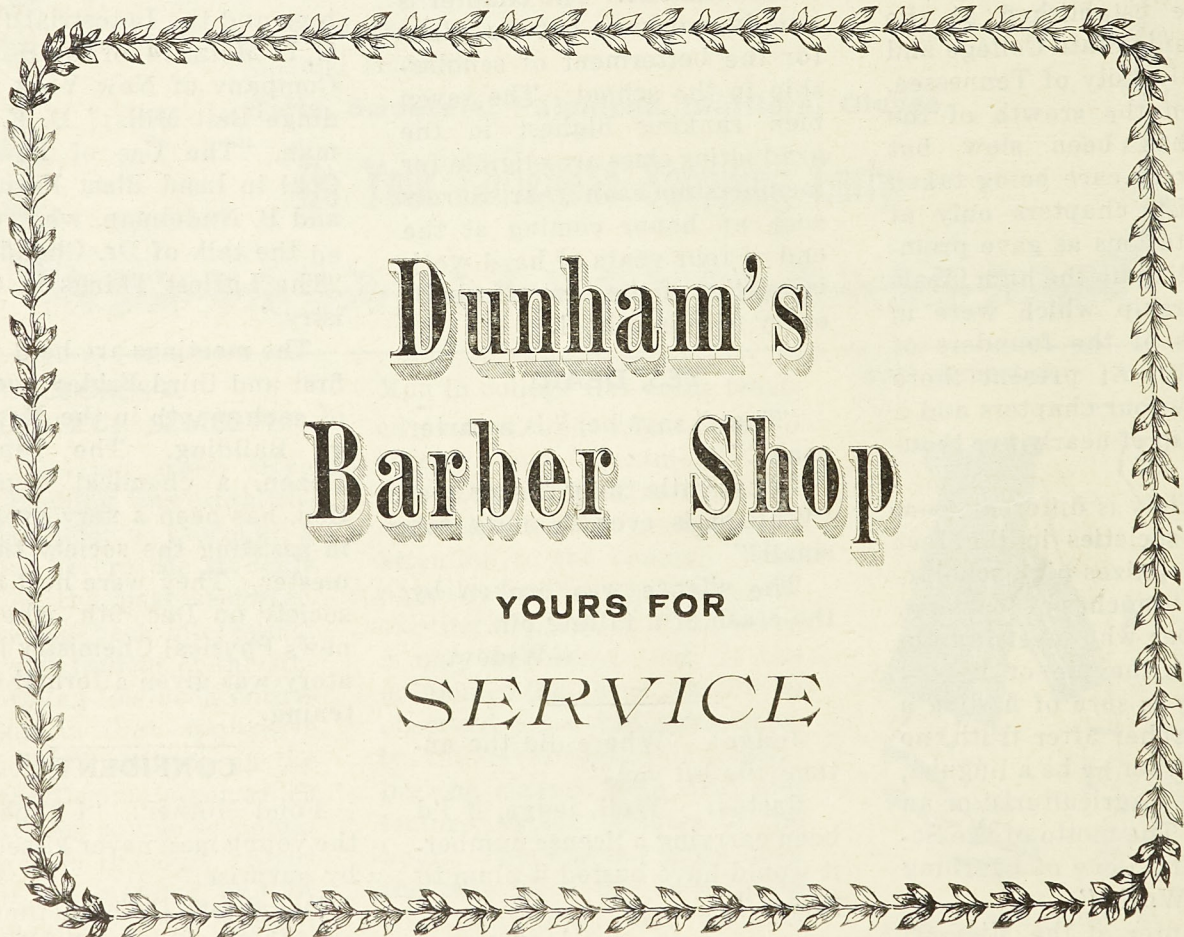


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THE MISSOURI MINER.

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.

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HELPFUL HINTS FOR MINER ASPIRANTS.

By Wunuv Um.

Always stop the Editor-in-Chief on the campus and mooch a cigarette. If he happens to offer you Camels, tell him that you only smoke Tarrytons. This will impress on him your superb taste and refinement.

If you run across the Business Manager, try to borrow a quarter. Show him you have a keen eye for business.

Yell across the campus to

the Contributing Editor, or slap him on the back when you meet him. When he sees your copy, he will surely remember you.

Tell all your friends how punk the paper is, except for the stuff you contribute once in a while. Tell them the Board is afraid to print anything that really amounts to something. This will make you a life-long friend of the entire department.

And by all means, never become a regular subscriber or buy an extra copy of the paper. This would indicate that you are interested in the sordid mercenary side of the paper, and are willing to financially support school activities, and nothing will go further to put you on bad terms with the whole staff.

LAMBDA CHI ALPHAS AND INDEPENDENTS WINNERS.

In a fast and interesting game on December 15th Lambda Chi Alpha defeated Sigma Nu 24 to 8. The feature of the game was the team work displayed by the Lambda Chi.

The next afternoon the Independents completely outplayed the Bonanzas, winning by the large score of 44 to 14. Much credit is due to Case and Haggood for this topheavy score.

The Lambda Chi Alphas and Prospectors clash on the 17th, the winner of this game playing the winner of the Grubstaker and Independent game for the Inter-Club-Fraternity championship.

CARRIED.

He: "I move we shimmie."
She: "I second that motion."

THE ROOTS ARE MISSING.

"Don't you like my trees?" she asked.

"Your limbs are pretty," he answered.

"Leave," she barked, and he departed with a bough.

MIKE AND JOHN.

Among those in school this past semester were two "Old Timers" who were here in "the good old days." They are John Bowles, '08, and Lawrence "Mike" Collins, who left school in the spring of 1914. John, who returned for his Master's degree, was the first delegate to go to Columbia in 1907 to get a line on M. U.'s St. Pat's celebration. It is rumored that John has decided to quit roaming—"There's a Reason."

"Mike" returned this semester to get his Bachelor's degree. He has spent most of his time since leaving school in Old Mexico, and is firmly convinced that prohibition is "all a bloody mistake." "Mike" never believed in letting his studies interfere with his college education. He is always on hand to censure all the cinema productions, and is firmly convinced that with a few more years' practice he can make the golf course in 40 up.

STAR AND GARTER

PLEDGES NEW MEN.

At a meeting of the Star and Garter on Wednesday evening, December 15th, the following men were elected officers for the coming year:

Charles J. Collet, President.
Marion Watkins, Vice-President.

Russell W. Hunt, Secretary.
Thomas G. Wier, Treasurer.

The Star and Garter also announces the pledging of Robert Courtney, Clyde Metcalf and W. D. Wasmund.

NO DOUBT.

I love my dear little roomie,
For we get along so well;
But if he knew his shirts fit me,
I know I'd just catch—the devil.

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THE MINING ENGINEER.

To look up a mining engineer in "Who's Who" is to read, among other things, the names of numerous frontier regions of the world. Here, for instance, we read of a man who was connected with a stamp mill in the Andes, and then transferred his talents to Western Australia. On another page we are told of a famous engineer whose operations have extended from Mexico to the Transvaal, and from Alaska to the interior of China. Korea, the Gold Coast, Arizona, Honduras, and Ecuador are some of the other places to which these enterprising but modest professional men have journeyed on adventurous business, and of which they can tell many absorbing tales. The typical mining engineer is, indeed, a modest sort of fellow. Usually he is a better talker than writer; but, even so, he must have just the right sort of encouragement to start talking of his experiences. Once he is properly encouraged, however, he may go on in his enthusiasm by the hour, while his listeners gladly forget that they ever had anything else to do.

Many of the popular impressions of the mining engineer nowadays come from the motion pictures. Yet the pictures, for all their flannel shirts, their hobnail boots, and their corduroys, seem to present very little of the nature of the mining men. A silent fellow, who slips off to Peru one year, and two years later turns up in San Francisco, may reveal only to a few intimate friends what he has been thinking about all the while.

When a mining engineer is called upon to speak, for instance before his fellows at a professional convention, he may sometimes seem a little short on grammar; but the vividness of his past experience, during the distant silences, pro-

vides its own sort of expression to which a fixed adherence to grammatical rules might be only a hindrance. Indeed, he should be encouraged, when he talks, not to think too much about how he is speaking but to let himself go on with all his natural vigor. As Don Marquis says, so might a mining engineer say of himself:

I do not work in verse or prose,
I merely lay out words in rows;
The household words that Webster penned—

I merely lay them end to end.
Yet the animated talk of a mining engineer, once he is started, is unceasingly interesting to the one who knows nothing of mining, because even the technical words, which seem commonplace to the talker, make the listener think of strange machinery, uncouth shafts and tunnels with all their equipment, pits, and vari-colored dumps on the mountain sides, and other accompaniments of adventure.

From seeing a mining engineer at his hotel in London or San Francisco, one could hardly picture the stone cabins, the shacks, or the tents in which he has had to house himself in other localities. He has to be able to easily adapt himself not only to the desert but to the city, or he would not enjoy moving about so much as he does. The best sort of mining engineer is, in fact, a very adaptable person, for he can go on very well in silence or in talk, in the Palace Hotel of Bullfrog Canon or the largest new skyscraper in New York, in Tucson or Timbuctu. If the mining engineers were not so modest and so frequently away at the ends of the earth, one might wonder why they have not entered more into the political activities of their native lands.—Science Monitor.

Subscribe For The Miner.

AIN'T IT THE TRUTH?

If a fellow tries to kiss a woman and gets away with it, he's a man; if he tries and doesn't get away with it, he's a brute; if he doesn't try to kiss her but would get away with it if he tried, he's a coward; and if he doesn't try to kiss her, and wouldn't get away with it if he did, he's a wise man.

The passerby notices in the first hour Spanish class, the absence of the fair sex that once used to make that class so popular. Could it be that "There's a Reason."

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Lady is looking for something from you when
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HOW ABOUT A LITTLE M. S. M. JEWELRY BOYS?

ATHLETIC REVIEW 1919-1920.

M. S. M.'s athletic year begins with the new year, and continues to the following Christmas holidays. In the year 1919-1920 M. S. M. was just emerging from the war period, as were other colleges and universities, and did not get back to pre-war standards immediately. One advance, however, that we made was our entering the M. I. A. A. Its effect on our last year's basketball season is discussed in another column.

Immediately after the basketball season all our energies were turned towards a track team and, altho we were entered in but very few meets a good record was made. White, Scruby, Brazil, Murphy, Needham, and other old track men were again in school, giving us the foundation for an excellent team.

Three Conference Records Broken.

White in running the high hurdles in 15 2-5 seconds broke the first conference record, and added another when he paced the 440-yard dash in 50 2-5 seconds.

Runge, a new men, hurled the discus 119 feet 10 inches, thus setting a new school and conference record. With such records as these, and adding points in other events we easily took the Triangle meet with Drury and Springfield, scoring as many points as our opponents combined.

Owing to the fact that school at M. S. M. ends one month earlier than most colleges, it was impossible for us to compete with many track teams. No team was sent to the conference meet, but with such men as White, Runge, Scruby and Brazil, it would have been an easy matter to walk away with the honors.

The coming track season pre-

sents just as good an outlook as did last year's. Altho we will be without the services of "Mickey" and Scruby, there will be enough new material to fill their places. White, Runge and Needham are in school, and are sure point winners. Coach Dennie plans on sending a team to the conference meet this year, and we may expect them to give some lively competition to the other conference members.

Football Season Successful.

The past football season found M. S. M. just getting back on its feet. A number of letter men returned, namely Cairns, quarterback; Bohn, halfback; Wilson, end; Buser, guard, and White halfback. Buser was unable to play owing to injuries received the previous season, leaving four letter men around which to build a team. Other men of last year's squad reported, and when the new coach arrived he found a good sized nucleus around which to build a team. At the start some fifty men were out, but this number dwindled down to about three teams at the end of the season. The new coach gave added impetus to the interest shown in football, and M. S. M. started off its season with a boom. With four conference games scheduled we set our goal as the conference championship, and, altho we did not achieve that directly, indirectly we came out on top.

The first three conference games were won handily, but the fourth with Drury was lost 13 to 7. All season we had made special efforts to play only eligible men, and in the end we were rewarded. At the M. I. A. A. meeting there was a general house-cleaning, and as a result four schools were thrown out of the official conference standing for having played ineligible men. Missouri Wesleyan, who had a

clean slate, lost the conference championship as a result. Drury also was one of the four, thus giving us a clean slate in the conference. A rerating, however, showed that Kirksville and William Jewel were tied with us for first honors.

M. S. M. then, has passed thru a notable year in its athletic history. Many improvements have been added, and others are yet to come, which will give us the recognition we deserve in athletic circles. Athletic Director Dennie has as his motto "Conference Champions next year, and State Champions the next." It's possible. Let's keep progressing. Make the coming year twice the success of the one just past.

SPECIAL STUDENTS.

On November 1st, at a meeting addressed by Dr. Fulton, the special students of the school organized as a class. G. R. Scott was elected president, and A. J. Anderson secretary-treasurer. The object of organizing is to enable those students who belong to no regular class to contribute their support to school activities as a body.

A very interesting meeting was held Dec. 2nd, at which time "Pat" McCarthy gave a very instructive talk on the manufacture of Portland Cement. The organization urges every man enrolled as a special student to attend their next meeting and become a member.

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ARVE SMITH

BASKETBALL OUTLOOK EXCELLENT FOR 1921 SEASON.

As we journey homeward for the holidays it is well to reflect on the possibilities of a successful basketball team. Last year the Miners entered upon their first basketball season as members of the Missouri Inter-Collegiate Conference. This gave more impetus to the interest taken in that branch of our athletics, and although we did not reach the goal set for us, the Conference championship, we made a very favorable showing, especially in the latter part of the season. This, perhaps, was not altogether due to an inferior team, but more to the lack of interest and moral support shown by the student body early in the season. The last few games, however, witnessed a notable increase in "pep" from the students as a whole, and immediately it had its effect on the fighting spirit of our team.

Coming down to the present year, and the end of a successful football season, we find the conditions just the reverse from last year. In brief, our football team has had the undivided support of the entire school, and nothing is to prevent that "old fight and pep" being carried over into the coming basketball season. And when we say carried over, we mean it is going to start at the first game, and continue to the last. It can not be otherwise, for M. S. M. is behind the athletes to the last man.

It will be noted that the schedule following presents some of the hardest games ever undertaken by a Miner team. There are many strong teams among the Conference members, aside from those outside the Conference which we meet. Some of these teams have had the entire football season in which to develop, since they had no football team to divert their energies. The Miners,

however, have tried to overcome this slight handicap by hard consistent training during the few weeks between the end of this football season and the Christmas holidays.

Several of the men who have been reporting for football during the past season have been on the floor every evening, and show the effects of being in condition. This fact made it possible to start scrimmages early, and in connection with the inter-club-fraternity series which has been run off the past week, the men are getting some very valuable training, preparatory to the hard grind that will start immediately on their return after the holidays.

Of the men who won their letters in basketball during the 1919-1920 season we have in school Captain Signer, who held down the center position on last year's squad; Rohloff and Bulger at guard, and Harris as forward. Other men from last year's squad who, no doubt, will give a good account of themselves this year, are "Lucky" Case, a forward; Kassel, who is trying out for center, and White, who is out for a forward position.

Looking over the squad of new men who have been reporting, we find material enough to build several quintets. Among these new men, however, there are a few who promise to contend any man for a position on the team. In shifting Captain Signer to guard, room was made for Kemper, who is a long and lanky boy capable of reaching up and placing the ball in the basket. With just a little more "fierceness" injected into his make-up, and a little more experience, he should prove a great asset to the Miner quintet.

At forward, Haywood and McClelland have been doing some exceptional work. Both are reputed to be guns at the game, and indications are that

they are double-barreled. If they continue their consistent work the Miners will be able to present a strong line-up at the start of the coming season.

With such an outlook as this we may look forward to going through one of the hardest schedules ever played by a Miner quintet, and landing somewhere near the top at the finish.

Our season opens on January 13th, and continues through the first week of March.

Coach Dennie is making arrangements for a one week tour, which will include five games, during the week of January 25th to 29th. Although all the contracts have not been definitely closed, it is very probable that arrangements will be completed by the time this issue is off the press.

Including the trip mentioned above the schedule for this season will be as follows:

Jan. 13—Tarkio College, at Rolla.

Jan. 25 and 26—Warrensburg at Warrensburg.

Jan. 27—Central College.

Jan. 28th—Central Wesleyan College.

Jan. 29th—Concordia Seminary.

Feb. 4th—Drury College at Rolla.

Feb. 10th—Central Wesleyan at Rolla.

Feb. 16th—Missouri Wesleyan at Rolla.

Feb. 23rd and 24th—Cape Girardeau at Rolla.

Feb. 28th—Springfield Normal at Springfield.

March 1—Drury College at Springfield.

Springfield Normal at Rolla some time during first week of March.

M. S. M. has never had a better basketball schedule, and with the best of prospects for the strongest team we have had in years, 1921 should be a banner season.

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PROFESSORS SHOULD ADVERTISE THEIR COURSES.

To the freshmen and those students who are uncertain as to what courses they should choose for the coming semester the information given below will no doubt be a great help. As do the students of the New Mexico School of Mines, and voiced in a recent issue of the "Gold Pan," we believe the professor should advertise his courses. They might also give handsome premiums to their customers instead of I's and F's. The student, as a rule, does some advertising for the professor, but the results of this is usually of no advantage to the Prof., when it comes to increasing his business. The well known saying, "It pays to advertise," should be put to the test by these educators.

As a starter we suggest the following:

Spanish—A simple language which teaches you to throw the bull in his native tongue. Simple, yet difficult if you can't twist the muscles of your upper lip. Woo the senioritas as they should be wooed. A can of chili will be given to the student who learns his lesson every day.

Chemistry—Take this subject under my instruction and add a sleeping car to your train of studies. Learn to use your imagination so that you can increase your valence and decrease your atomic weight. Disintegrate your osmotic pressure into supernumerary valences. Rest your allotropic prerogative on flow sheets and wake up hazy.

Calculus—Take this with me. Removes all horror of death. Face the future with complacency. Most popular course in college. Most students take it three years. There's a reason. No premiums offed.

Mineralogy—A very easy subject. As defined it is

a divergent habit of reticulated nomenclature with a resinous fracture, hackly lustre, phosphorescent asterism, sectile -ex, opalescent specific gravity, acicular hardness and an amorphous conchoidatism of pyromorphism. If you haven't a holohedral form become a crystal gazer and then you will have a drusy ear after testing yourself with the blow pipe.

Physics—Sometimes has a singular meaning. It is a study of mass, induction, impudence, liquifaction of gases, noise, percussion, oscillatory discharge, projectiles, transmission of power and confounded displacement. The only requirements for the study are hypothetical ignorance and strength.

Geology—This is a result of poissant mediums beginning with the nebular and planetesimal hypotenuses, which postulates the origin of the archean intrusions and passing thru the superincumbent strata of steen million years, sojourning in the late silurian to devour a few of the faunal invertebrates so prevalent during the advance in life of the one lung fishes and horned scorpions. We again halt during the early mesozoic division to view one of its intellectual age of dinosaurs, to admire his handsome thirty-eight ton body and one pound brain. The bell rings. Everybody wakes up and departs. A two-year child can learn this easy subject under my instruction. Premiums given to those who sleep in class.

Drawing—Learn to be a pencil-pusher. My system is the best. The subject is an immeasurable diastrophism where orthographism projects, the student ejects, the prof. rejects, and where the straight edge rules. A stiff exam guaranteed at the end of the year. All kinds of premiums to those who flunk.

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CHRISTMAS HOLIDAYS

ARE INVITED TO EAT WITH US

SPECIAL TURKEY CHRISTMAS DINNER 70c

LAMBDA CHI ALPHA ENTERAINS.

The Lambda Chi Alpha Fraternity entertained at their chapter house with an informal dance on Friday evening, December 10th. The rooms were decorated with spruce, which in conjunction with a log fire blazing on the hearth, gave a cheerful suggestion of Christmas time. Hunt's orchestra furnished their excellent standard of music. A light supper was served at midnight, and a very enjoyable evening drew to a close at 2:00 A. M. The chaperones were Dr. and Mrs. W. D. Turner and Mrs. N. A. Kinney. The out-of-town guests were Mrs. R. C. Richardson, Miss Vivian Richardson, Miss Abia Brock and Miss Ruth Barton.

The English department—that part of it which controls the Frosh—has a novel idea as regards book reports to be handed in. The student is required to write, at the bottom of his paper, the color, size and copyright date of the book on which he reports. (Why not the number of paragraphs and the size of type used also?)

A new book at the Library which is proving very popular is "White Shadows in the South Seas," by Frederick O'Brien, which the author calls "a record of one happy year spent among the simple friendly cannibals on the island of Hiva-Oa in the Marquesas." Mr. O'Brien knows how to present his unusual material in an easy delightful fashion, his adventures are often thrilling, and the photographic illustrations are unusually good.

First Maid: "How was your date last night?"

Second Maid: "He's awfully nice, but he's sure hard on marcelle waves."

LIBRARY NEWS.

During the last five years the library has grown from 18,500 to 23,500 volumes, an increase of 27 per cent. There has been an even greater increase in the use of the library. The number of books issued for use outside the library in 1920 will total about 10 per cent greater than in 1919, 42 per cent greater than in 1918, and about 100 per cent greater than in 1914. Several months of 1920 show an increase of 150 to 250 per cent and more over the corresponding months of 1914 and 1915. The volume and complexity of the work has increased correspondingly in many other directions. During these five years the library staff has remained stationery, comprising the librarian, one assistant, and two or three student assistants. With the larger staff it should now be possible to do many things to increase the library's usefulness.

According to the Rollamo Board, your opportunity for obtaining a 1921 Rollamo is rapidly decreasing, due to the fact that only a limited number of copies have been ordered from the printer. Don't delay ordering your copy at once, see your representative at once and place your order. The Rollamo will be out on time.

DO YOU KNOW HER?

I've been searching everywhere
Until I'm growing skeptic,
For a girl whose soul is clean
And still not antiseptic.

—Punch Bowl.

"Doggone if dat boy ain't got
a air of distinkshun 'bout him."

"Yas, sah, he works in a levery stable."

—Virginia Reel.

Statisticians have finally decided that the man who held on to the last was a shoemaker.

THE PASSING OF THE SENIORS.

The yearly promenade grew near

With a bustling all about
To give a farewell send-off
For the Seniors passing out.

The night arrived; the punch was spiked,

And caused a joyful rout.
They hired a truck to carry off
The Seniors passing out.

Frosh: "What is correct, a herd of camels or a flock of camels?"

Senior: "Neither—a pack of camels."

"Well," sighed the undergraduate, as he finished registering, "only four months before summer vacation."

Sweet nectar from her lips he sipped,

As under the moon they sat,
And wondered if ever a man before

Had drunk from a mug like that.

"Rix and Besse dance well together, don't they?"

"Yes, well together is right, my dear."

AGREED.

She, fixing mussed-up hair:
"My, but I like it in the fall."

He: "Hum, I like it any time."

—Gargoyle.

Frosh: "Uncle, what is curiosity?"

Uncle: "Well, Sidney, boy, that's what makes marriage licenses sell so fast."

POOR FISH.

I wish I was a little fish,
All frozen in the ice;
And when the women skated by,

Gee, wouldn't that be nice.

Miner dance tonight.

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bargains we have to offer

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THE AMERICAN ASSOCIATION OF ENGINEERS.

Missouri School of Mines Chapter.

The American Association of Engineers is a national society composed of members of all branches of the engineering profession. Its objects are to advance the standing of the profession, and to promote the welfare and success of its members, particularly along non-technical lines. Among its more prominent activities are: the development and enforcement of a code of ethics for the profession; registration and licensing of engineers along the lines of licensing of physicians and lawyers, in order to protect the public and the profession from "quacks," and to raise the profession to the same high plane occupied by physicians and lawyers; compensation for engineers commensurate with their ability and usefulness; free employment service for its members; and the publication of "Professional Engineer," the engineer's business magazine.

The Missouri School of Mines Chapter was organized last spring, and received its charter a few weeks before Commencement. A constitution was adopted and officers for the ensuing year elected, but no real work was done until this fall.

Before the opening of school the local chapter of A. A. E. established a Service Bureau, which, with the co-operation of the Rolla Chamber of Commerce, was of great service to new students in finding lodgings. A. A. E. stands for service, and the officers took this opportunity to put this ideal into practice. This service will be repeated each year.

On September 17 the chapter held a smoker, at which Dr. F. H. Newell, Past President of the Association, and Director

of Field Forces, was the principal speaker. Dr. Newell outlined the birth and growth of A. A. E., its purposes, accomplishments, and plans for the future, in a way which brought home to those who heard him the great need for A. A. E., and the great service it is performing for the profession.

On October 6, after a business meeting, Mr. J. M. Southgate, President of the Missouri State Highway Engineers Association, outlined to the chapter the proposed 60-million dollar bond issue for good roads, and why the chapter, as engineers, should work for its passage.

The membership drive, held during October, resulted in an increase in membership of 140 per cent, and at the present time 55 per cent of the student body are members of the chapter.

On December 1 a very enjoyable smoker was held, at which, after the regular business was concluded, Mr. C. P. Calvert, former treasurer of the St. Louis chapter of A. A. E., gave a very interesting and instructive address on "Selling Your Services."

The chapter is at present, thru its Publicity Committee, engaged in trying to help Rolla pass a bond issue to improve her light and power plant. A representative student has been elected to represent the chapter on the Rolla Chamber of Commerce, in order to present our views more directly.

A committee headed by Prof. Forbes is at work on a schedule of salaries for Mining Engineers. Another, under Dr. Johnson, is working on a state law for licensing engineers. Another committee is working on the proposition of a school meeting room or club room, the need of which is evident. Still another committee, just appointed, is at work on a direc-

tory of the school, which it is hoped can be published soon, and another committee is studying the question of an honor system for M. S. M.

A. A. E. stands for service, and will get behind any movement calculated to benefit the public. The M. S. M. chapter will back any movement which is for the good of the school, the city of Rolla, or both. It is in no sense in competition with the technical societies of the school, but rather is very desirous of helping them in any way it can. A committee has been appointed to look after this phase of chapter activity.

Any student in school is eligible to membership, and all are earnestly urged to join.

The officers of the chapter are:

President, H. H. Armsby.

1st Vice-President, J. P. Colbert.

2nd Vice-President, C. E. Bardsley.

Secretary-Treasurer, E. M. Guy.

NEVER CAN TELL.

She's mine! All mine!

But she flirts and she drinks
and

She smokes cigarettes:

And when she goes out

They say she forgets

That shes' mine, all mine!

—Widow.

Lieutenant Peckham has a budding general in his army. In a recent quiz the question was asked, "How would you get an army across a river if you had no pontoon bridges, but found a large brewery on your side of the river, which had a large supply of 50-gallon barrels?" A very innocent question in itself, but the answer of this future general was to the effect that he would "place two men on a barrel and use a shovel as a paddle."

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TAU BETA PI.

The Beta of Missouri Chapter of Tau Beta Pi was installed at M. S. M. in December, 1906, with E. E. Cook, V. H. Hughes, H. T. Mann, W. C. Richards, J. P. Sebree, E. R. Wash, F. L. L. Wilson and I. L. Wright as charter members. The members of the present chapter are W. L. Stewart, W. W. Weigel, K. K. Kershner, L. E. Davidson, John Bowles, W. F. Netzeband, R. J. Stroup, R. K. Stroup, Joe M. Wilson, C. R. Mize, H. P. Shih, J. P. Colbert and A. C. Williams.

Tau Beta Pi is an honorary engineering scholarship fraternity. Its purpose is to give recognition to those men who have stood highest in their classes, in the upper one-quarter. Scholarship alone does not make a man eligible, although it is the first consideration. Besides being a scholar he must also be a man, a good fellow and a will-

ing worker. Good fellow is not thought of in its usual sense, but that a fellow is not a grind. He must be active in school affairs, and always willing to help his fellow student and his Alma Mater.

The men are chosen from the upper quarter of the class, the highest one-eighth are pledged in the second semester of their Junior year, the remaining one-eighth are taken in the first semester of their Senior year. The highest man in the Junior class is taken in the first semester of his Junior year.

**PRE-HOLIDAY HOP TO
BE A FITTING SEND OFF.**

That the third Miner dance, to be given on Friday evening, Dec. 17, will be welcomed by the students as a last final fling before leaving for home, is evidenced by the enthusiasm already shown in connection with this affair. Already we have

heard reports of the several importations to be made in the way of fair ones, and that, in itself, speaks well for the success of the affair. Hunt was in St. Louis during the first part of the week looking over some new music, and promises something snappy for this dance. The holiday season is, of course, a time for affairs of this kind, and it is our wish to make this a fitting beginning to your ten days of pleasure, as well as the proper ending of the school social season. As the school term nears an end the students' spirits rise in a corresponding proportion, and we intend this dance to be the climax to your feeling of joy. Don't forget that refreshments will be served, and that the admission is only one dollar.

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Long Garage



Continued from Page Two.

far into the Junior territory, and resorted to punting most of the time. The third period was scoreless, altho the Juniors were masters of the situation at all times.

The last period was fast and furious, with the Junior backfield running wild. Gettler, playing quarter, circled the ends, cut thru the line, and made gains at will. Dennison, Erickson and Rembert in the backfield proved a little too heavy a combination for the

Frosh line, and were able to puncture it for gains whenever gains were needed. Their counters were pushed over during this priod, bringing the score up to 33 to 0.

The game was a St. Pat's benefit by the Juniors, 25 cents admission being charged. The Juniors wish to thank the student body for turning out so generously, and also the freshman class team for the good sportsmanship shown in playing the game.

The line-up and summary follows:

Juniors 33.	Frosh 0.
Gray.....le	Smith
Manning.....lt	Sublet
Watts.....lg	Eble
Coffey.....c	Campbell
Karges.....rg	Christopher
Wheeler.....rt	Gabler
Machin.....re	Schramm
Gettler.....q	Carter
Erickson.....fb	Kemper
Rembert.....lh	Wright
Dennison.....rh	Sitzler
Touchdowns—Dennison 2, Erickson 1, Wheeler 1, Rembert 1; goals kicked 3; substitution—Dier, for Karges, Gollub for Watts, Kaulen for Erickson, Tradgett for Gray, Karr for Wright, Moodie for Christopher, Blake for Sitzler, Sitz'er for Schramm, Lovey for Karr, Christopher for Campbell.	

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Continued from First Page.

tee, of which T. C. Wier is chairman, has been offered a few snappy acts from students. They are very anxious to get more talent in line so that when the time comes they will be prepared to produce a good afternoon's entertainment. This is in no way limited, but is open to all students who have the ability to entertain.

Continued from First Page.

Sigma Nu play on December 15th. At the end of this game the winners play in their turn until the championship is decided.

These games furnish a great deal of amusement to the student body and arouse a great deal of pep throughout the school.

Last year the "Champs" were awarded a pennant as this year's "Champs" will also receive. A trophy of any kind is something that any fraternity or club should be proud of and should want to keep indefinitely. A pennant soon fades, and after a short time looks too shabby for any use. Why not a silver loving-cup for next year's championship.

We would suggest that twenty-five cents admission be charged for the championship series. The championship game is bound to draw a crowd, if only from the two organizations interested. Even if only \$15 or \$20 were raised it would be enough to buy a very presentable cup.

LIBRARY VACATION HOURS

The Library will close at 4 P. M. on Wednesday, Dec. 22. During the Christmas recesses the library will be open weekdays from 8:30 A. M. to 4 P. M. Closed Christmas, New Year's and Sundays.

Subscribe For The Miner.



THE COUNTRY BOY'S CLUB.

The ancient and honorable order of Country Boys automatically springs into existence wherever two or more adult males contend with each other for some fair lady's favors. Its principles lie in the binding together in fraternal union all of those kindred spirits who have been trifled upon. Cleopatra probably qualified more men for this organization than any other known woman. The local chapter does most of its pledging right after the St. Pat's celebration although several pledges are expected just after the big Miner dance. Can you qualify?

W. H. GETTLER,
Chief Country Boy.



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SCOTT
FOR
BOOKS

DENNIE'S PLACE

I. T. PETRAGILO'S

Students are invited to eat with us that they might be satisfied.

Continued from First Page.

School of Experience, come to know the fundamentals of the business of management. But why should the technical graduate spend ten or twenty years learning the basic laws of business or economics any more than a young man spend ten or twenty years learning the basic laws of engineering instead of spending four years in a technical school? The Administrative Engineer will be the coming man of the age, and in this branch, as in others, M. S. M. will excell.

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