



22 Sep 1924

The Missouri Miner, September 22, 1924

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Vol. 11, No. 1.

Monday, September 22, 1924.

Price, 8 Cents.

LARGE ENROLLMENT THIS YEAR.

Freshmen Show Marked Increase.

The enrollment for the fall term shows a large increase over the corresponding enrollment of last year. There are 353 students enrolled and others coming in steadily. The total enrollment of the fall semester last year was only 329 which is twenty four less than the present enrollment to date.

One hundred eleven freshmen have survived the ceremonies of being signed up. The figures for the various classes are given below:

Freshmen.....	111
Sophomores.....	79
Juniors.....	60
Seniors.....	67
Graduates.....	4
Specials.....	13
Unclassified.....	18

353

These figures are subject to change and are by no means final. Most of the unclassified students will be assigned to one of the four classes, and many transfers will be dropped to a lower class. However, the Senior class will be practically unchanged.

Some forty students sent transfers from other colleges, but the exact figures regarding the number of students enrolling from other schools is not known as yet, although it is known that there are quite a large number which speaks well for the school.

NEW ASSISTANT PROFESSOR OF MILITARY SCIENCE AND TACTICS.

Lieutenant T. H. Stanley has been appointed Assistant Professor of Military Science and Tactics of the Missouri School of Mines, and Lieut. Wanamaker has been advanced to take the place of head of that department which was vacated by Lieut. W. L. Medding.

Lieut. Stanley graduated from the United States Military Academy in 1920 and immediately entered the service. He has been stationed at Fort Bliss with the 8th Engineers during the last two years.

WELCOME.

With the opening of school, many new faces are seen around the campus. Some are the faces of new faculty members, some of students who have transferred from other schools, but most of them are the faces of the members of the Class of '28. As the official organ of the student body and the M. S. M. Alumni Association, the Miner extends to all newcomers a most hearty welcome for all whom it has the honor to represent. To describe that "Old Miner Spirit" which we feel as we do this is impossible. It is more than merely a school spirit manifested at football games. It is a democratic spirit, it is the spirit which exists between one Miner and another. The newcomers who have not already felt it soon will, and then they will all be able to appreciate the spirit with which we welcome them in becoming one of us.

HOT DIGGETY DOG.

"The Miner" wishes to announce that its first big battle will be given in Jackling Gymn in the form of a dance next Saturday night at 9:00 p. m. Everybody get hot. Bring a dollar and a dard and get goin' for a large evening. Blue notes and variations to be furnished by Muench's sovereigns of syncopation.

All Freshmen are urged to attend this affair as it will be their first real chance to meet the boys and get a taste of the old Miner spirit.

PRESIDENT AND BUSINESS MANAGER OF ATHLETIC ASSOCIATION TO BE AWARDED LETTERS.

A new plan fostered by Athletic Director Dennie, and approved by the officers of the Athletic Association, will be instituted at M. S. M. this year. The plan provides for the giving of the same award to the President and Business Manager of the Athletic Association as is given to the football letter men. When the plan is in perfect working order it

Continued on Page Eleven.

FIFTY MEN RESPOND TO CALL FOR FOOTBALL CANDIDATES.

Approximately fifty huskies have donned the moleskin in response to Coach McCollum's initial call for football candidates. After going through the tiresome but necessary tactics of the opening practices without a murmur, the squad has settled down to real hard work.

Coach McCollum, who came to us fresh from Penn State two years ago, will again be at the helm. Popular with his men, and popular with the student body as a whole, we hope, and we know if confidence is a determining factor, that his efforts will be crowned with success.

The big task which confronts Coach McCollum at the present time is the building of practically a new line. The loss of Kemper, Gabler, Zoller and the two Neil brothers, has left gaping holes in the line. Captain Ledford will again hold down his old berth at left end, and Kirk Cammack will again be at one of the guard positions. "Buddy" McBride and "Al" Buck have returned after a year's absence, and their presence will go a long way in bolstering up the line. Young, a new man in school, has been holding down the center job, and is likely looking prospect.

Last year's backfield, with the exception of Jack Nolen, is practically intact. Tucker, Fisher, Thomas and Modaff have all returned, and Hasselman, who won his letter two years ago, is also out in suit. Lee and Lemon, who starred last year with the Oklahoma School of Mines, entered school last Christmas, and are out fighting for a place on the team. Both of these men have been going good, and are fighting hard for a permanent place in the backfield.

The Miners will blast open their schedule October 3, when they engage the McKendree eleven, of Lebanon, Ill., at Rolla. This will be the first time the Miners have met McKendree on the gridiron, so their strength is the proverbial unknown. Loyola University, of Chicago, and Oklahoma A. & M., of Stillwater, are also newcomers on the schedule, and should give the fighting Miners a real tussle.

The complete schedule for the fall

of 924 is as follows:

Oct. 3—McKendree College, at Rolla.

Oct. 11—St. Louis University, at St. Louis.

Oct. 17—Oklahoma A. & M., at Stillwater.

Oct. 25—Washington University, at St. Louis.

Nov. 1—Loyola University, at Chicago.

Nov. 7—Rose Poly, at Rolla.

Nov. 14—Mo. Wesleyan, at Cameron.

Nov. 21—Drury, at Rolla.

Nov. 27—Springfield Teachers, at Rolla.

E. H. CATHCART MARRIED LAST DECEMBER.

The marriage of E. H. Cathcart '23.5 to Miss Marie Moore, of Denver Colo., on December 28th, 1923, took place at the home of the bride's mother and was announced this summer. Mr. and Mrs. Cathcart are now in Morenci, Arizona where the "skipper" is working in the engineering department of the Phelps Dodge Corporation.

CHAS. E. KERCHNER REPLACES PROF. W. B. MILLER.

Prof Chas. E. Kerchner has taken the place of Prof. W. B. Miller in the mechanical engineer department. Prof. Kerchner graduated from Pennsylvania State College where he received bachelor and professional degrees. He served one year in France during the war. The two years following this were spent in the combustion engineering department of the Bethlehem Steel Company. From that time until now Prof. Kerchner taught at the University of North Dakota.

Prof. Kerchner is taking charge of the power plants laboratory, machine design, and some of the heat engine classes. He is a member of Sigma Tau, Sigma Xi and the A. S. M. E.

MARRIAGES.

John Henderson Gay Reilly, B. S. '17, to Miss Ursula Elizabeth Gilseman, of Berkeley, Calif., on the 20th day of August, 1924. At home after October 1st, at Apartado No. 3, Pachuca, Hidalgo, Mexico.

W. M. Keeling '23 Married.

W. M. Keeling was married to Miss Elma Morton on June 18th, in Falls City, Neb. They are now at home at 4823 W. Adams St., Chicago, Ill. Bill is with Western Electric Company at the Hawthorne Works.

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FOOD COOKED**HONK - A - TONK****ORGANIZATIONS ANNOUNCE PLEDGES.**

The various fraternal organizations and clubs on the campus announce the pledging of the following men to date:

Bonanza Club: Worth McCoy, Howard Moreland, Eugene Sewell.

Grubstaker's Club: Roland Reynolds, James Letts, Richard Kootman, Jim Stogsdill.

Kappa Sigma: Buford Davis, John Schrantz, Don Cameron, David Lindquist, Cheighton Hendrickson, Hudson Thatcher.

Lambdt Chi Alpha: T. C. Updike, C. D. Evans, R. L. Hallows.

Pi Kappa Alpha: Lyman McBryde, G. H. Cassady, Everett Muennig, Roy Gunther, A. T. Couch, W. K. Schwckhardt, J. A. Ames.

Sigma Nu—James Orr, Fred Trieb, Chas. Ambler, James Creekmore, John Brickner, Phillip Boyer, Kevil Crider, Richard Higgins, Paul Rhaitel.

PROF. M. D. ORTEN TAKES PLACE OF DR. BOYCE.

Prof. M. D. Orten has taken the place of head of the economic department which was vacated by Dr. Boyce. Prof. Orten graduated from Drury where he received the degree of A. B., and obtained a Master's degree from Washington University. He has also taken two years graduate work at the University of Chicago.

Before coming to M. S. M. Prof. Orten taught two years at the Kentucky Wesleyan College, and one year at Washington U. He served in the army artillery during the war and was in France twenty-one months.

Prof. Orten has changed the courses offered by the department with the hope that they will prove more satisfactory to students of the Missouri School of Mines.

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THE MISSOURI MINER.

The Official Publication of the
M. S. M. Alumni Association.

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

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Issued Every Monday.

A WORD TO THE ALUMNI.

As we prepare this first issue of the Miner this year we are reminded that we serve not only the student body, but also the alumni of M. S. M. Few publications may boast of as wide a circulation as the Miner has. Alumni in sixteen countries other than the United States scattered over the entire globe receive the Miner. Our alumni subscribers are far more numerous than student subscribers, and it is the aim of the present staff to bear this fact in mind during the year in order that we may serve the alumni better. We hope the Miner was missed by the members of the Alumni Association during the summer months, and that each issue in the future will meet complete approval of each alumnus who receives the paper.

In order to do this we must have the support of the alumni. Prof. Dean recently asked each alumnus to contribute an article to the alumni paper which he intended to start but as the plans for such a paper did not materialize, he turned the few contributions over to the Miner. We are publishing in this issue one of them which was contributed by J. Chas.

Miller, with the hope that other alumni will contribute.

Every effort will be made this year to enlarge and improve the alumni department. Here again we must rely upon the alumni themselves for news, and sincerely hope to receive the necessary co-operation on their part to be able to serve the alumni in the way we believe we should.

SUMMER SCHOOL HOT SHOTS.

Fred Smith's only objection to the summer session was that the victims wouldn't sit on the time-honored bench and swap stories. Fear not, Fred, time heals all wounds. The Gang is back, and seats are at a premium.

Spike Dennie wore a white shirt and collar all summer. Beats the devil what a woman can do, doesn't it?

And would you believe we had bathing beauties a la Mac Sennett running about the campus? Just ask those few Vocates who nearly fell out of the upper windows of Mechanical Hall watching two parade by one day! Ah, 'tis sad but true, that the "gang" missed something by not being here to guard the sacred traditions of our campus.

"H. & S" are contemplating a new line for next summer—powder puffs and ———! Leave it to Hook 'em and Skin 'em!

And say! Here is another novel feature of the Summer Session. We had two dances—called "reversed stag"—better known as "Doe dances." No, it isn't a misprint. "Doe" dance is correct, for ye gods, the women that were wall flowers was a crime. And now we have to "stag" it all winter. Beats the devil we can't have Summer School all year.

Say, fellows, do you know Hell is running for Sheriff of Phelps County? 'Tis true! Chances are that we will have a hot time if he is elected. But Johnson is running against him, and may be elected. Yet one old erkle was heard to remark, in discussing the political situation, that "Johnson would have to run to beat Hell." He sure will.

And say, "gang," who do you suppose is running for constable? Well, our old friend and partner in crime, Geo. Crangle, of Honk-a-Tonk fame. Go right over and get a hand-out if you are hungry. He is giving ham-

burgers to every student that will vote for him. You don't live in Rolla? Ah, that doesn't matter. Geo. doesn't know the difference, and then—you're in Rolla. So!

Yea! "Gank," 'twas a glorious and Prof. Garrett enjoyed it, but then, that is to be expected. Yes, he has a new car—Essex—balloon tires, and everything. Pretty soft, eh?

Oh, yes. Dr. Barley had plenty of time for his usual fishing parties—more opportunity than fish, perhaps. Let's see. What was the size of that fish he caught. Oh, well, go ask him. He delights in telling fish stories.

And Prof. Dean! Ha! Prof. "flew the coop" this summer. Couldn't stand the pressure of seeing so many ladies about the campus, perhaps. Chances are he got a few "dy's" and "dx's" out of his system, hence the boys may have an easier time of it this semester. Yes, emphasis on the "may" if you please.

One thing we didn't see this summer was a single "wrinkling" match. Now, wouldn't it have been interesting to see a group of "bobbed heads" gathered about administering the time honored punishment to one of their number. Ah, let's quit thinking about it.

Would you believe it? A woman painted out flag pole this summer. It takes nerve to do such a stunt, and what it takes she had. Yep—sae painted the brass knob, too.

Well, "gang," we are glad to see some real pants strutting across the campus once more. Yes, I know, but seeing is believing, and we're in Missouri, and—oh, well, why say more; you know what I mean.

SCHUMANS

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HARRY R. McCAW**Future of Petroleum Engineering.**

By J. Chas. Miller, B. S. '16; E. M. '21.

With the hope that this subject large number of alumni at present engaged in various branches of the oil industry in the Mid-Continent field and result in a discussion instructive and beneficial to prospective students and under-graduates who contemplate availing themselves of the unlimited possibilities which the new course in Petroleum Engineering at the Missouri School of Mines offers, the writer will endeavor to set forth his observations of conditions obtaining in the industry in so far as his four years experience as geologist and three years' experience in production work permit.

During the period following the beginning of the World War the search for oil was rampant, many of the major companies employed a large corps of geologists. Those who did not employ them regularly employed geologists or secured geological advice by other means. Petroleum geology soon became a popular vocation for the educated as well as the uneducated, and structural mapping extended over wide territories.

Many of the men who were employed by the large producers had little or no training in structural geology, although the majority were engineers. Many of these men had no experience in petroleum geology. The result was that there were many mistakes made through ignorance of ordinary geologic criteria, improper direction, and an eagerness to discover new fields.

Detail parties were sent out to map surface structure in areas covered by State or United States Geological Survey reports on well developed oil fields, or to map large areas where only a few scattered outcrops were visible. The expense entailed by this work could have been saved by the practice of good judgment or the employment of a less expensive reconnaissance survey. Again these parties at times were sent to points remote from known oil fields in order to work an area where cheap acreage was available, while territory in the line of trend of these fields went neglected. Often a thorough study of these far-off areas by a historical geologist or a good structural geologist in the office would have revealed the slight possibilities of the areas examined. On several occasions the writer was called upon to make recom-

mendations for new locations in drilled areas where adequate data were at hand for the construction of a sub-surface map. It so happened that none of the three proposed wells were favorably located structurally, yet to prove that geology was all wrong two 3000-foot holes and one 4200-foot holes were drilled at a cost approximating \$150,000. This sum could have been used to purchase acreage more favorably located, as revealed by the sub-surface map, which later development proved very prolific.

The question arises, "Who was to blame for this situation?" Was the producer at fault, the geologist, or both? The writer ventures the opinion that in most cases both were at fault. The geologist should have been censured for his failure to express himself in terms intelligible to the executive or producer, and his lack of consideration of unfavorable evidence and the cost involved in leasing and development work when making favorable recommendations. The producer should likewise be censured for his unwillingness to admit of a frank discussion of theory and a lack of understanding of the fundamentals of field work connected with petroleum geology. The executive wanted a definite answer in each and every case, while the geologist or any one who cares to make even a slight acquaintance with geology knows that it is not always possible to give an affirmative or a negative answer when the subject requires so many qualifying statements. The executive did not know any geology, and in a majority of cases did not want to know any geology; consequently there arose the anomalous, if not pathetic situation, of a geological department without the whole-hearted support of the land or producing departments.

When the companies started to employ geologists it seems that the geologist were looked upon as prophets instead of ordinary mortals practicing a science which was not an exact science. In the course of two or three years, as drilling operations failed to disclose the existence of enormous pools of oil beneath every structure mapped, whether it was established executives decided that the return on that the geologist was wrong or the structure was barren, many of these executives decided that the return on their investment in the geological department was not sufficiently large, therefore, they decided to either abolish their geological departments en-

To The Classes of '25, '26, '27 and '28 and to Post Graduates, Vocates and Specials

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tirely, or decrease the number of men employed. The investor or the executive is not to be taken to task for this attitude, as he is primarily interested in dollars and cents, not science. However, if this investor or executive had known some of the fundamentals of geology, he would have been able to direct his geologists and bring about better understanding and co-operation between the geological, and the producing and land departments. At present, many of the companies use their geologists in engineering capacities, or as lease men in their land departments. Petroleum engineering has, therefore, been the economic consequence in a measure of the undirected or misguided efforts of the early petroleum geologist.

As the discovery of new pools becomes less frequent, the natural result will be a conservation of the resources in the existing fields through petroleum engineering. No one can doubt that a greater recovery in many of these fields would be forthcoming if the early development had been governed by reason instead of rote, and by the employment of sound engineering principles instead of the more expensive and oftentimes disastrous "by guess and by gosh" meth-

ods. One reason for the large number of mistakes made in the drilling and producing operations is inexperience. Many of the men engaged in the oil producing business are men who were moderately successful in other lines of business. During the boom times they entered the oil game, made money, and now think they are full-fledged oil men. One trouble with the industry today is that there are too many of these "half-baked" oil men. It is principally these men who criticize the geologist and engineer too severely; it is they who do not know how to direct the efforts of the technical men at their command to serve the best interests of their company. An impartial observer engaged in the manufacturing business readily notices the lack of close co-operation between different departments in some of the large companies, and the loose management or lack of management of innumerable smaller independent companies. Efficiency of operation is absent in many cases.

The United States Bureau of Mines publishes excellent bulletins dealing with the engineering problems connected with oil field operations. But who reads these bulletins? The average contractor or drilling superin-

tendent does not read them because he usually is not technically trained, and is not capable of understanding them if he did; neither does the average executive read them; he is too busy—playing golf or making money—to take time to educate himself in these problems. All he knows about a bad fishing job is that it costs a lot of money. If a new well is making water, he tells his men to shut it off. But how to avoid numerous fishing jobs, and how to effectually shut off top water, intermediate water, or avoid drilling deep enough to encounter bottom water, these executives do not always know. Here, of course, the trained engineer proves himself valuable. He can often save the company a string of casing by studying the sub-surface formations and advising his employers where to set. It has been the writer's experience that legions will tell one what to do or what should have been done after the mistake is made, but few, very few, can tell how to surmount the difficulties expected and unforeseen, encountered in drilling and producing operations. It is the engineer who should prescribe the remedy for these mistakes, and it is he who should be called on to solve these

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problems.

In conclusion, the writer feels that although his experience does not extend over many years, a better future is in store for men who engage in petroleum engineering than those who follow petroleum geology, as the former are in more intimate relation to the actual operation of oil properties. However, the two are inseparable, and a thorough training and experience in petroleum geology plus business sense is absolutely essential to the petroleum engineer.

TYPEWRITER FOR SALE CHEAP SEE MART. ZOGG

BIRTHS.

William Orval Keeling, Jr., born May 11th, 1924, son of Mr. and Mrs. William Orval Keeling, Sr.

Donald Fulton Cooke, born Sept. 10th, 1924, at Orange, N. J., son of Mr. and Mrs. Charles G. Cooke.

Mary Sue Knappenberger, born Sept. 11th, 1924, at St. Louis, Mo., daughter of Mr. and Mrs. William R. Knappenberger.

Samuel H. Lloyd III, born Aug. 30, 1924, at Rolla, Mo., son of Mr. and Mrs. Samuel H. Lloyd, II.

Wesley G. Hippard, Jr., born July 16th, 1924, at Apt. 19, Agujita, Coahuila, Mexico.

A daughter was born to Mr. and Mrs. Robt. E. Heller, on Sept. 16th, 1924.

"POP" WRIGHT MARRIES MISS EVA UNDERWOOD.

The marriage of W. S. Wright '24 to Miss Eva Underwood took place August 13th in Peoria, Ill. "Pop" is the Illinois State Highway Dept. This long expected surprise will bring the good wishes of many friends of the couple.

DE MOLAY.

All De Molays, whether local members or of chapters elsewhere, are requested to attend an important meeting, Tuesday, September 30th, 7:30 p. m. at the Masonic Hall. The following business will be transacted:

1. Installation of officers.
1. Date set and arrangements completed for Big De Molay Dance.
3. Entries opened and prizes announced for De Molay Tennis Tournament.
4. Preparation for initiation to take place at next regular meeting.

All Masons invited and all De Molays expected to attend.

R. S. Rucker, M. C.

VOCATE.

The Veterans Bureau opened up with an enrollment of sixty-eight men. This number includes the Collegiate Vocates, as well as those enrolled for the regular college courses.

The Oil Field Engineers who have been out in the field during the summer, have nearly all returned for the remainder of their institutional training. The Highway Engineers who are in placement training with the municipal and state highway departments, will not return for their school work until some time during the next two months.

Monte E. Lum, the Veterans' Bureau Coordinator here, and his staff, consisting of Miss Helen Baysinger, property custodian, and Mrs. Stewart, stenographer, have been busy during the entire summer completing records, and keeping up the correspondence with the trainees.

Mr. Lum expects several new men to sign up for the Highway Course during the next two months.

Chas. B. Neil, B. L. Chaney and R. R. McGee have just returned from a round trip to Springfield, Mo., where they met with the Rehabilitation Committee.

E. S. Bodine and "Joker" Clearman are the only "oil slickers" who have not as yet reported back for school.

Ask "Red" Hopkins about his new process of "watering gasoline."

R. O. T. C. NOTES.

The military department has added a 285 foot Lampert portable foot bridge to its equipment.

The following men attended the 1924 Advanced R. O. T. C. Camp: C. A. Anderson, H. R. Berry, B. L. Browning, R. H. Butts, J. P. Campbell, S. E. Craig, R. O. Day, J. N. Foster, L. Kershkowitz, W. E. H. Knight, M. E. McLean, M. B. Mills, J. Moore, W. J. Moulder, J. C. Stanton. Martin Bickersderfer attended the basic camp.

Campbell and Knight receive their commissions at the camp.

Sammy Craig won the 145 pound wrestling gold medal by winning a decision over Kellog, a student of the University of Nebraska. Kellog has not been thrown in five years, and had not lost a decision during the last two years. Kellog tried out for 135 pound class on the U. S. Olympic team this year.

The M. S. M. Rifle Team won 18th place among the 29 contestants. Jack Campbell was the high point man

from M. S. M.

Mike Mills was first place as pistol expert from M. S. M.

The R. O. T. C. has the largest enrollment this year in the history of the school. There are forty-five men taking the advanced course, and 145 in the basic course.

"IF HAMLET WERE IN FIRST YEAR CHEM."

"Ha, even now a spectral evaporating dish floats before me, with its precious bit of 'unknown'. To be or not to become acquainted that is the question. Is it,—can it be my friend—CO₃. Ah, no, that would be too simple. This penetrating odor presages—SO₃. Now for the BaCl₂ group! How I hope there will be no precipitate. Black precipitate, white precipitate, green, pink, blue and red. Oh these colors are but the creations of my reeling senses. This rainbow has no truth in chemistry. Yet I must test, must test, must test!

(Scene changes).

In my nerveless hand lies a test tube. Across that scarred page are written those portentous words, Neutralize the Solution. Despair's cold hand clutches at my throat, for this is the dragon of my chemical existence. Where is that litmus paper? Solution's too Acid! Pour in some hydroxide! Now its too Base. Pour in some acid! Oh its too Acid! Too Base!! Too Acid!!! Too Base!!!! To!!!! To Base!!!! Human endurance fails me. "I pant," "I sink," "I tremble," "I expire."

ALUMNI NEWS.

Hanley Weiser, B. S. '18, M. S. '20, has been appointed Professor of Mines and Metallurgy at the Alaska School of Mines, Fairbanks, Alaska.

M. J. Irigerson, M. S. '23, is head of the Geology Department of the Illinois Wesleyan College, at Bloomington, Ill. His address is 4409 W. Park Street.

Mrs. Robt. E. Heller, on Sept. 16th,

E. E. Robertson, B. S. '24, is with the Negociacion Minera De San Rafael Y Anexas, S. A. Depto. De Hidalgo. Apartado 79. Pachuca, Hgo, Mexico.

William P. Hatch, B. S. '07, as just completed the construction of Boston's newest and most modern hotel. Quoting the Boston Post: "William P. Hatch, the architect and engineer of this new structure, has delivered spic and span an excellent type of hotel to the proprietors."

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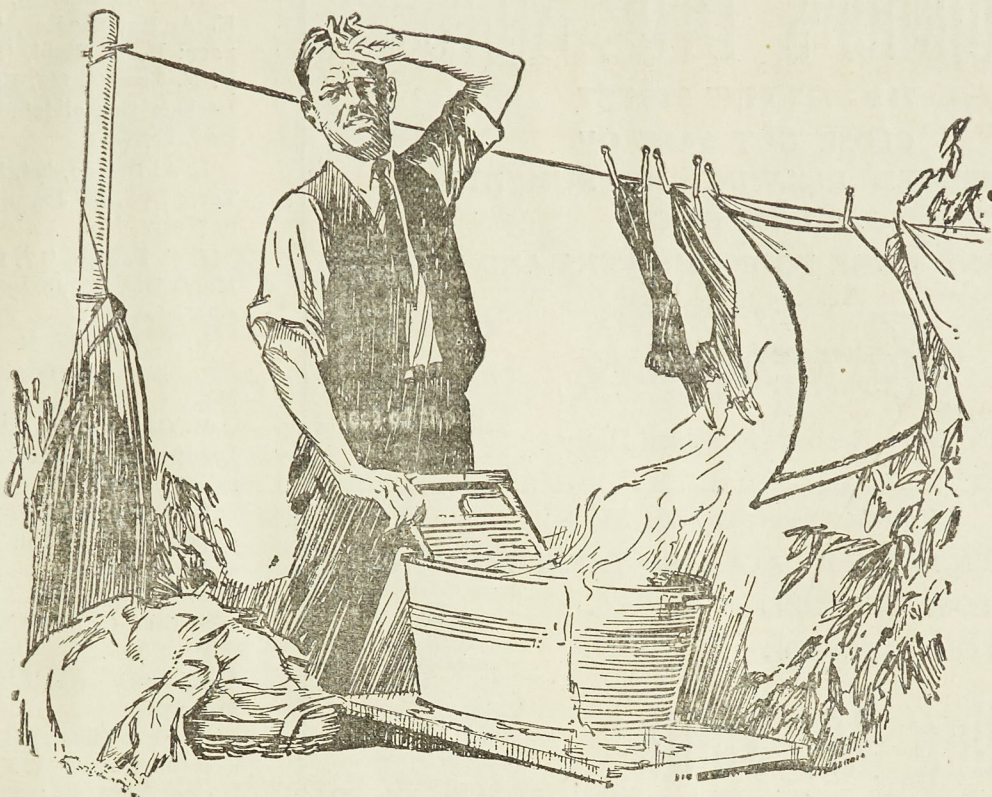
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H. F. Shore, '21, Engineer, River
Mines Div. St. Joseph Lead Co., River
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T. C. Weir, '22, Surveyor, St. Joseph
Lead Co., Flat River, Mo.

E. T. Campbell, '23, Geologist, St.
Louis Smelting and Refining Co., Flat
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C. B. Davis, ex-'24, Eng. Min. Div.
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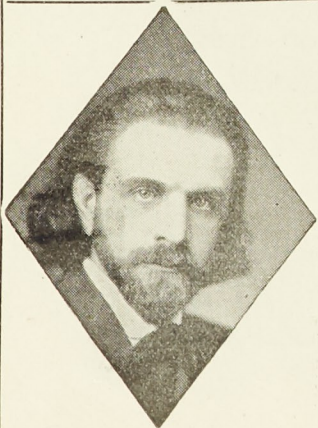
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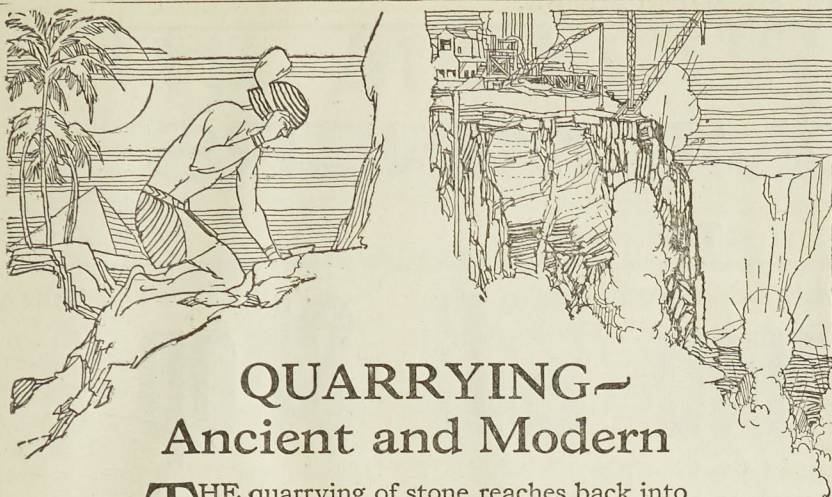
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But the modern quarryman has at his disposal a force undreamed of by the ancients. Explosives have taken the place of arduous hand labor. Now, whole hillsides are blasted almost as easily as one block could be cut by hand tools alone.

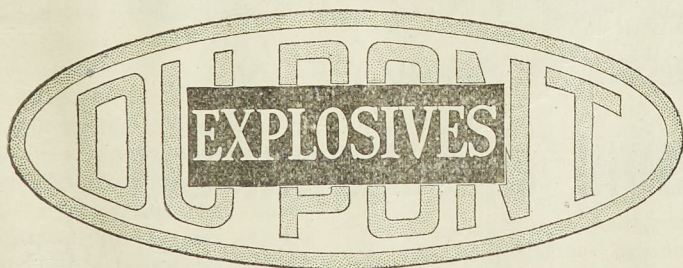
Quarrying methods vary with the specific problem at hand. The quality and condition of the stone, the purpose for which it is to be used, and the general quarry conditions determine the type of explosives to be employed.

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Continued from Page One.

will act on much the same principle as follows: An unlimited number of freshmen will be permitted to try out. They will be assigned certain work to do by the Athletic Association, such as taking care of athletic equipment, carrying water for the football squad, etc. For each task assigned and completed they will be given a certain number of merits. At the end of their freshman year the eight men having the highest number of merits will be permitted to carry on. The merit system will continue thru their Sophomore year, at the end of which the four highest will be selected. At the end of the junior year the student body will be asked to elect the two men with the highest number of merits for President and Business Manager.

An accurate account of the number of merits possessed by each man will be kept by the Athletic Association, and will be posted from time to time.

As this is the first year in which the plan is to be put into force no limitations in the number of men will be placed on either the freshmen or the sophomores. The Junior Class is asked to call a meeting at once, and select the four most willing and capable men for the positions.

The ultimate purpose of the plan is to do away with all politics, which has in the past entered into the election in many cases, and also to place in these positions men who are well acquainted with the duties connected with these offices.

The giving of an "M" is only a just reward for these men who will have devoted much of their time in the interest of the Athletic Association during the four years they are in school.

The plan sounds very feasible to us, and we sincerely hope it will be a success.

Men wishing to try out are asked to report to Mr. Dennie in the gymnasium at 4 p. m. as soon as possible.

SCHOLARSHIP AVERAGES FOR SPRING SEMESTER '923-24.

Grubstakers.....	81.6
Independents.....	80.9
Kappa Sigma.....	79.4
Boranza.....	79.3
Pi Kappa Alpha.....	79.3
Prospectors.....	79.3
Lambda Chi Alpha.....	78.6
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