



16 Feb 1917

The Missouri Miner, February 16, 1917

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Mo.

Vol. 3, No. 22.

Friday, February 16, 1917.

Price 5 Cents.

On the Production and Value of X-Rays.

There is probably no branch of physics more fascinating to the average student as well as to the general public than that part dealing with x-rays. By use of x-rays we are able to see thru objects which are opaque to ordinary light, such, for example as seeing the bones of the body thru the flesh and clothing. (Wherein the x-ray apparently acquires most of its fascinating power.)

When a current of electricity flows thru a tube having a high vacuum the charge is carried thru the tube by extremely small particles which travel at enormous velocities. It is by the sudden stoppage of these particles that x-rays are produced. The essential parts of an x-ray tube are the mode by which the current is lead into the tube, the cathode by which it is lead out, and the anticathode which serves as a target for the small particles. The quality of the rays, i. e. their penetrating power depends to a large extent upon the vacuum, and as this changes with use tubes are generally provided with some vacuum regulating device usually of the occlusion or osmosis principle.

A neat application of the osmosis principle is found in the Snook hydrogen tube, which type of tube forms part of the x-ray equipment recently purchased by the school. In this tube the residual gas is hydrogen. Two bulbs are sealed into the main tube and connected to it by small platinum rods. One of these bulbs is open to the atmosphere. The other is sealed and contains hydrogen at about atmospheric pressure. Hydrogen will diffuse thru red hot platinum from a region of higher

to a region of lower hydrogen pressure regardless of the presence of other gases. If, then, the bulb open to the atmosphere is heated hydrogen will pass from the tube into the atmosphere, since the amount of hydrogen in the air is very small, thus raising the vacuum. If the other bulb is heated hydrogen will flow from it into the tube, thus lowering the vacuum.

Undoubtedly the most valuable and the most highly developed application of the x-ray at the present time is in surgery. It is reported from war hospitals that bullets and shrapnel may be accurately located thus making it possible to perform operations which without the knowledge afforded by the x-ray could not have been undertaken. It is claimed, too, that x-rays properly applied will stimulate the rebuilding of tissues.

Of greater interest to the engineer perhaps, is their applications in locating blowholes in steel and copper ingots and in detecting faults in steel plates. It has been recently reported that a Swiss engineer has perfected an x-ray outfit for locating faults in concrete structures.

In pure science x-rays are being used to determine the arrangement of the atoms in crystals, and at the present time researches are being carried on with ultimate object of determining the structure of the atom.

Tho it has been but twenty years since the accidental discovery of x-rays, yet in that short time they have proved to be of inestimable practical and scientific value.

F. H. FRAME.

Claude E. Jamison. ex-'00, is consulting geologist at Billings, Mont.

Miners 21, Springfield Y. M. C.A. 36.

Outweighed and outclassed, but not outfought the Rolla Miners went down to defeat at the hands of the Springfield Y. M. C. A. juggernaut basketball team Tuesday night in Jackling Gym. When time was called the score sheet showed the Y. M. C. A. on the long end with a 36-21 win.

The game started off with a pace which could not possibly be maintained. The visitors were all over the floor all the time and their speed coupled with their uniforms looked like blue streaks running about. Ramp, who refereed the game, had the two teams going at all times and mainly on his account is due the cleanness and interest taken. He was very fair and unbiased to both sides and never overlooked anything.

Our team played good ball taking everything into consideration they threw baskets well, remembered signals and were in fairly good condition. It is no disgrace to go down to defeat to such a quintet as the Y. Our team should not be discouraged as it is impossible to keep a good little team down all the time.

Kluge, the German whose middle name is Consistent, was on the job all the time with a bulldog tenacity. Nevin did his usual brand of playing by being able to handle his man with little difficulty. Scott was always in the thick of it and is a willing boy. Dorris, the find of the season, missed only one foul out the eight chances.

For the Y. M. C. A., Jay, a little fat cyclone, had the crowd on their feet most of the time by his wonderful basket shooting. He can throw from any place or any angle whether standing

still or going full speed. The rest of the team are all class and comprise a wonderful unit. They seem to know just where everyone is all the time and consequently act like a machine. This team is comprised of five Drury captains who have all graduated from basketball at that institution.

The score:

Miners	Pos.	Goals	Fouls	Pts.
Scott	F	0	0	0
Kluge	F	3	0	6
Dorris	C	0	7	7
Nevin	G	2	0	4
Johnston	G	0	0	0
White	C	2	0	4
Wright	F	0	0	0

Substitutes: White for Dorris;
Wright for Kluge.
Springfield Y. M. C. A.:

	Position	Goals	Fouls	Pts.
Davis	F	3	6	12
Jay	F	7	0	14
Bell	C	2	0	4
Coll	G	1	0	2
Cox	G	2	0	4

36

Ramp, referee.
Peterson, scorer.
Eames, timekeeper.

Mining Association.

On Wednesday evening of this week, Mr. L. A. Delano, of Bonne Terre, Mo., talked before the Mo. Mining Association on the "Influence of Ball Mills on the Milling Practice of Southeast Missouri." Mr. Delano told the experiments that have been carried on with the Ball Mill and of the advantages which the ball mill seems to have over the old method of grinding. His talk was not only interesting but very instructive and was appreciated by all who heard it.

The Rolla Whist Club met last Wednesday evening with Prof. and Mrs. H. S. Dickerson. Mrs. F. E. Taylor and J. A. Spilman won the favors.—Rolla Herald.

J. S. Hoffman, '16, is rodman and Harry J. Sides, ex-'16, is chain drill man for the Burro Mountain Copper Co., Tyrone, N. Mex.

Whistle When They Talk, Do These Indians.

Mr. A. W. Gleason, '15, sent in this article clipped from the San Francisco Bulletin of Jan. 26, 1917. Mr. Gleason is one of the Miner's best friends among the alumni and his contributions show a healthy interest for all things tending to advance and further the spirit of his Alma Mater.

Mr. Harold Mapes, who is the author of the article, is a member of the M. S. M. alumni of the class of '07.

Carlisle, Jan. 26.—That entire tribes of Indians converse in whistled language in Old Mexico is an established fact. This is authenticated by Harold T. Mapes, a mining engineer, in Mexico for twelve years but now at his home in Carlisle, Pa.

Mr. Mapes avers that the Mexican Indians have a whistling vernacular in which they can carry on conversation as fluently as in words. This language coming traditionally from the Toltecs, it is universally understood by the natives now. Not only are words whistled, but sentences as well.

The Spanish language, Mr. Mapes says, is musically adapted to its use, and the natives employ it upon occasions as carrying further than words, also using it when around noisy machines and when not wishing to be understood by others. Indian swains converse with their sweethearts from afar off, even though behind closed and barred windows. The laborer talks with his fellow at his side and asks for tools, using it also as a means by which to communicate words of anger or signal the approach of the overseer.

Its origin is unknown, according to Mr. Mapes' information. He found it nowhere else in his travels through Central or South America.

Lawrence May, '02, is a Mining engineer, Cristina 24, Havana, Cuba.

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JUNIOR COLUMN.

Jimmie Valentine has been to Marshall by the Bonanza Club to represent them at the funeral of Mr. Miller.

Senior Walsh reports that the funds for Housholder's fire fighting and heroic medal are not coming in as fast as he expected. Cash those I. O. U.'s for a good cause.

"Porchie" Schnaidt left on Wednesday for his home in St. Louis, to recuperate after his illness.

The Juniors have found a use for kalkulus after all. It has been found useful in the study of Mechanics and Hydraulics.

All classes will kindly report their float ideas to Valentine, and all individual stunts, including Clubs and Fraternity floats to Dan Beyer as soon as possible.

A case of good quality: Doc Stoner is still wearing those old white socks he used in the class fight when he was a Freshman.

Goldman is somewhat up that famous creek. He can't quite settle on the style of costume for the girls to wear in the coming show for the benefit of St. Pat's.

If the student is not clear on the subject, the student should come around and defy himself.

If one thinks he is educated, to hold this opinion of himself he had better stay clear of the southwest room on the third floor of Norwood Hall.

A mean trick the boys tried to pull Thursday morning by walking out in stresses when the five-minute limit was brought to bear.

Payne to Lecture.

Every one who heard Henry M. Payne last year will be pleased to know that he will lecture on Arctic Mining at Parker Hall Wednesday evening, February 28, 1917.

Sweater Benefit.

Next Thursday, Feb. 22, is SWEATER day. The entire day will be given over to raising a sweater fund, which will be used to provide sweaters for all "M" men in basketball, track and baseball. Johnson Bros. have given their pool hall and bowling alleys to the Miners for that day. Bowling contests with a prize for high scores will be held between the clubs and fraternities. The tables will be open all day, and the total proceeds be given to the sweater fund.

At night, there will be a grand old fashion dance in Jackling Gymnasium. Good new music has been provided, and the program will include old as well as new dances so everyone can have a good time. The older people of Rolla are especially invited to attend.

Let us get together Miners, and make Washington's birthday a big success, and for the first time, give every "M" man his sweater.

Miner Dope.

A company of infantry is to be organized at M. S. M. immediately at the outbreak of war with Germany. G. Ebmeyer, altho of German decent, announces his allegiance to Uncle Sam and will captain the company. The lieutenants are also Americans: Triefenback, Kahlbaum, Geib and Bock are already appointed with more to follow. When interviewed last week the captain said the company would first march to St. Louis and capture the two main German strongholds in St. Louis—Anheiser-Busch and Lemps. The Germans in St. Louis will probably fight very bravely but the Miner's company with such a prize in sight cannot fail of their objective. Rally round the keg boys.

Wm. N. Clark, '09, is with A. B. Currie Co., City National Bank Building, Omaha, Neb.

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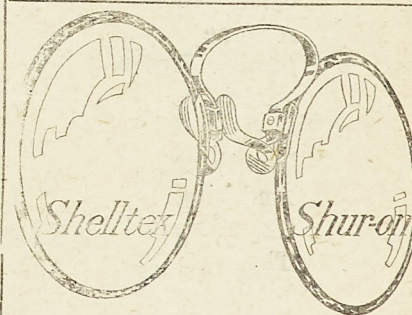
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THE MISSOURI MINER.

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.

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

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Once wrote
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It read
The thing
And bing
He smote
The pote
With an
Iron cane.
That's why
Potes die
So young
And spry.
—Daily Kansan.

We have noticed an advertisement headed, "They all roll Bull in the Nave." You know, somehow or other, we believe some fellows slip an awful lot of the same article in their daily recitations. We mention no names.

HAYDEE

SATURDAY, MARCH 3.

You must see Haydee. You know Haydee is an Indian Princess from India. Haydee is the title of the play to be given by the Junior Class. Saturday evening, March 3rd, at 8:30 o'clock is the hour and the date that Haydee will be presented. At Parker Hall Auditorium is the place.

Tickets will be on sale for Haydee next Monday, February 19th. Reserved seats can be secured at Allison's Jewelry Store. Price of seats will be 50 cents all over the house. Don't wait, but get your seats early.

Haydee will be presented by the best talent that the School of Mines and Rolla can afford. The play is full of mirth and laughter. Good songs and local hits. You can't afford to miss it. So buy your seats early. It will be the season's event for Rolla society. If you are not there, you are simply not in it.

Dedicated to the students of Lindenwood:

Sweet student don't spend your days

By burning woods; 'tis lonesome fuss.

Give up your blaze,
And come to us.

Dear student, we're sparkin' you.

Love makes great folks of all of us.

So hearken to
The call of us.

Fair student, why tarry thus?

Some future day you'll look for us

To marry us

And cook for us. —Ex.

(Signed) Several Miners. (????)

Harry T. Heimberger, who completed the work for his degree the first semester, has secured a position at Granby, Mo.

The Rolla Herald

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**BAUMGARDNER
STUDIO.**

New Books in the Library.

Among the new books added to the Library in the last few days are Schmeitzner's Clarification of Sewage; Player's Notes on Hydro-electric development; Klein's Design of a high-speed steam engine; Halsey's Handbook for machine designer's; Powell's Historic towns of the Southern states; Haas and Hill's Chemistry of plant products; and Greene's Elements of Refrigeration.

Mr. John W. Meier, of Phoenixville, Pa., has just given to the Library his valuable and interesting collection of books on Geology, Mining, and Metallurgy. It includes a large number of books in German as well as many standard works in English. The Library is very fortunate to have received this useful gift.

Dr. McRae placed in the care of the Library a copy of "The Mine Inventors' Guide" by Floyd Davis. The book is a gift from the author, a well known consulting Mining Engineer, and a graduate of M. S. M. in the class of '83. One of the illustrations in the book is a view on the campus of the School of Mines, before Parker Hall was built.

In a recent letter from F. W. Buerstatte writes that he is now Associate Professor in the State College of Washington, and the senior member of the Mechanical Engineering department. Mrs. Buerstatte, who is majoring in music in the college has been chosen as a member of the college girls' sextette, and will enjoy a several weeks' concert tour of the state. Mr. Buerstatte was formerly an instructor at the School of Mines.

Germin Garcia Lozano, '11, is chief of the department of taxes and secretario de Hacienda Mexico, D. F., Mexico City.

Geo. Condon, '12, is shaft foreman for the Commercial Mining Co., Globe, Ariz.

SOPHOMORE COLUMN.

The C. E. Sophomores are fascinated with the study of crystallography. They are now studying blocks and domes.

Two more new Sophomores have signed up. Messrs. Bash and Badlet from Illinois U. are taking Chemical Engineering.

One month from to-day is St. Pats. Remember what we did last year as Freshmen. We are going to beat it this year. Let every man plan one float and give the plans to the committee appointed for that purpose.

Ben Nichols returned Tuesday from St. Louis or East St. Louis. He returned minus a pair of tonsils but says he will be all right in a few days.

If willpower will keep the student awake in Mechanics, what made Eulich yawn so much?

Remember fellows Nolte still has some receipts to issue for class dues.

Seek and ye shall find is true every time except one. That is when you are looking for one "just like it" in kalkulus.

Lost, Strayed or Stolen.

One semester hour. Somewhere between Oct. 10 and Feb. 14. Please return to a Stewdent Missouri School of Mines. No questions asked.

Cambria Books Here.

The Cambria Handbooks which were ordered last week have arrived. Students for whom the books were ordered may get them in the Library.

Central College at Fayette has decided to suspend publication of their year book for 1917. They blame it on the high cost of paper, because a creditable book could not be printed for less than \$900, and only \$600 could be raised by subscription and advertising.

Central Coll.

Subscribe For The Miner.

**COMING TO
Rolla's Theatre**

Charles Richmond in
Hero of Submarine D-2.

Dorothy Kelly in
Artie, The Millionaire Kid.

E. H. Sothern in
The Chattel.

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Rules for Contest for the \$50.00 Prize Offered by J. A. Spilman

Rule 1.—That the contest for new students be closed on Green Cap Day, and the prize to be awarded at the smoker in the evening.

Rule 2.—That all names of prospective students shall be sent to the Director before said student enrolls, and that a record be kept by the Director of the student who sent in the name of the prospective student.

Rule 3.—That the contestants' claim shall be verified by certificate from the new student.

Rule 4.—That this contest be open to all bona fide students of the Missouri School of Mines.

Rule 5.—That the awarding of the prize be left to a committee composed of the President of the Athletic Association; the Editor of the Rollamo, and the Editor of the Missouri Miner.

When a contestant discovers a prospective student he must record the claim with Director McRae to prevent relocation and claim jumping, proceed diligently with development work, and secure patent papers for each claim when the student enrolls.

The contest is officially opened now, and continues on until Green Cap Day in September.

LOST.

One key wind open face silver case watch, with metal dial. Finder please return to J. A. Allison, and receive reward.

At Ohio State.

Spoons are the only table silverware with which Freshman girls may eat at Ohio State. Those who disobey the rule are compelled to stand in front of the girls' dormitory and feed peanuts to the passersby.

Q. Why is a class room like a Ford automobile?

A. Because it is a bunch of nuts with a crank up front.

Patronize our advertisers.

Missouri School of Mines Men.

Members of the American Institute of Mining Engineers are notified that a re-union meeting will be held in connection with the 114th (New York) meeting of the Institute at the Engineering Societies' Building, 29 West 39th St., New York, N. Y., on Monday, Feb. 19, 1916, at 8:00 p. m.

The general purpose of the meeting will be to cement old friendships and initiate new ones. The entertainment will consist of songs; moving pictures of the manufacture of artillery for the French army; French artillery in action, and other interesting subjects; impromptu stunts by some of the members, etc.

Light refreshments and "smokes" will be served.

As a partial fulfillment of the objects of the evening, graduates of Missouri School of Mines have arranged to be seated together.

We want to have you present at this re-union meeting and we hope that you can make your plans to get to the meeting of Institute and to be present on Monday evening. You are invited as a guest of the New York members.

I. J. H. Stauber, '01, is a mine operator at Silver City, N. Mex.

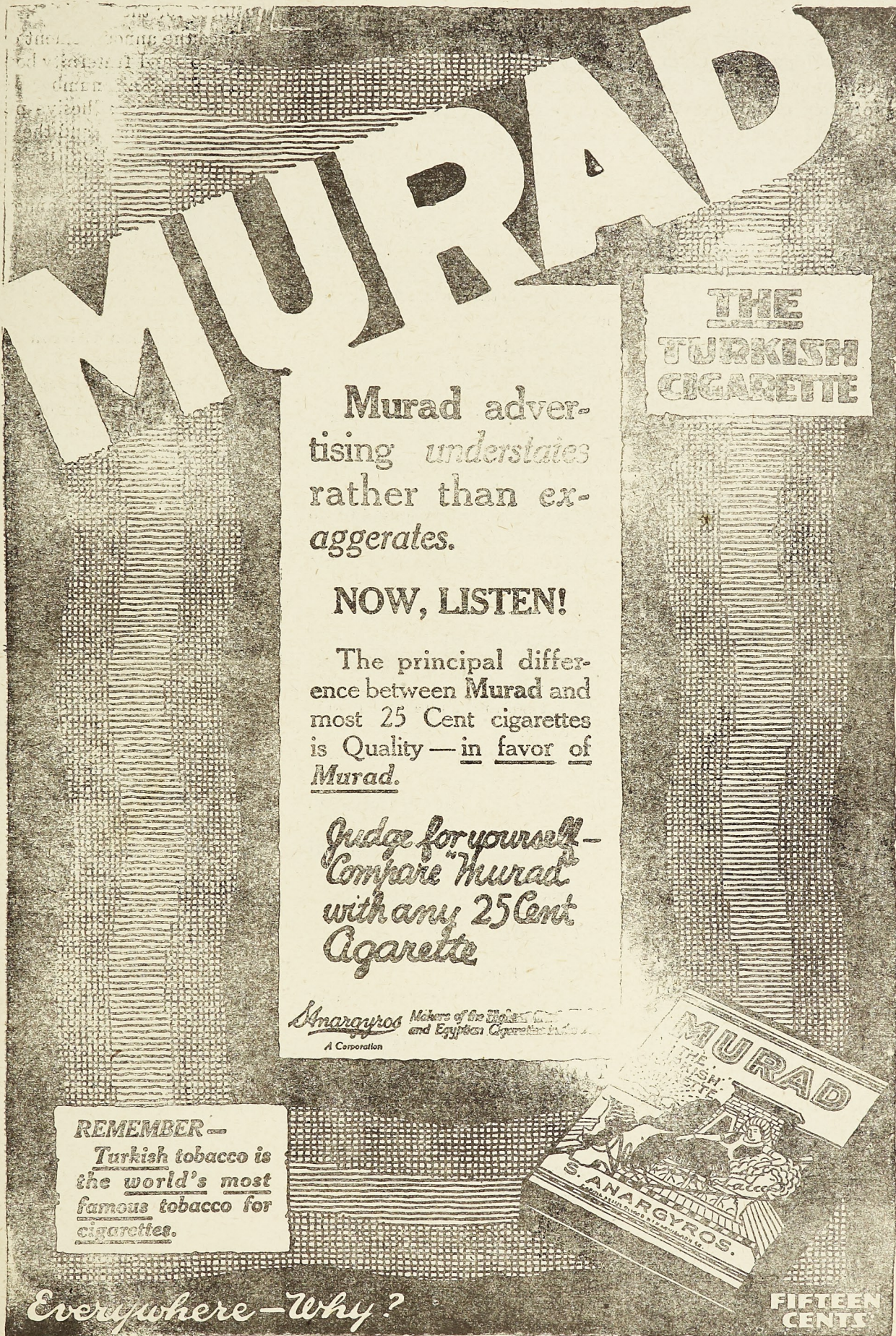
Francis J. Tayman, '99, who left Mexico last year, is with the Doe Rum Lead Co., Rivermines, Mo.

T. McCarthy, of Farmington, Mo., was visiting his son, M. McCarthy, '19, at the School of Mines Thursday.

Shiv. Raj, '11, is acting manager of mines of the Tata Iron and Steel Co., Ltd. Gorumahisana, India.

H. A. Roesler, '03, is concentrating engineer for the National Zinc Separating Co., Platteville, Wis.

Charles A. Baker, '08, is shift foreman of the Copper leaching plant of the Anaconda Copper Co., Anaconda, Mont.



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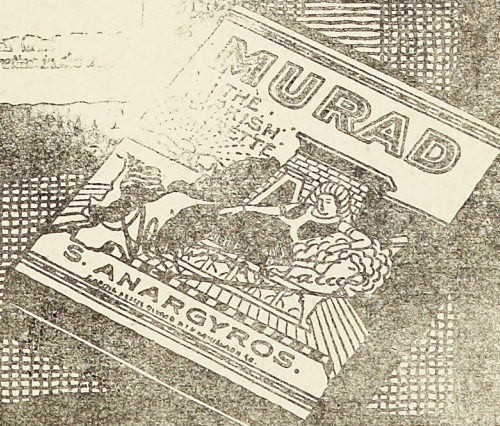
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the world's most
famous tobacco for
cigarettes.

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SENIOR COLUMN.

The Senior Class held a short meeting last Friday morning. Mr. L. Kaplan was appointed chairman of the committee on green caps and gowns for St. Pat's Day. Mr. Kaplan reported that the outfit will cost \$1.00-\$1.25. All Seniors not possessing caps and gowns are requested to see Mr. Kaplan immediately and make arrangements for their costumes.

It is hoped and expected that every Senior has made arrangements for his picture in the Rollamo. If you have not done so, kindly attend to the matter at once.

The special assessment of one dollar imposed at a recent Class meeting has not been collected in full, as yet. Don't wait for Brown to ask you; go out of your way, if necessary, and pay him.

Among the budding young scientists of the graduating class we might mention "Rats" Dale. Dale, with the assistance of "Daddy" Pape, is working on a new flotation scheme for the recovery of lead from complex carbonate ore. "Rats" has had remarkable success thus far, and is getting results justifying a commercial application of his method.

In the book catalog recently issued by Smith & Smith Co., New York City, we notice this title, "Advice to the Love-Sick" by G. B. Wilson. Mr. Wilson informs us that the first three chapters contain the personal reminiscences of Harry Jones Teas. All Seniors desiring this book should place their orders with the Librarian at once.

L. L. Lodwick, M. S. M. '14, spent Saturday and Sunday in Rolla. "Ole" was looking fine, and everybody was glad to see him. Since he left M. S. M., he spent a good deal of his time in Mexico, but for the past year he has been in Arizona and New Mexico. He is now going to his old home at Ottumwa, Iowa, where he will engage in the coal mining business with his father.

Around The Sun Dial.

Last Wednesday was Valentine's Day and, as would be expected, the government building was quite filled after each train with hopeful people. Not students alone but faculty members as well were among the throng. Those who caught, not being able to keep their good fortune to themselves, rushed with their messages to the Sundial. And it is from it that we got the following.

To Dr. McRae:

Our heart and soul we give to thee,

That greater M. S. M. might be.

From the Student Body.

To the Faculty:

Though love for you some fail to proclaim,

We respect and honor you just the same.

From Every Stude.

To the Senior Class:

O, Senior wise! Please think of me,

For a Senior some day I hope to be.

From the Underclassmen.

To the Junior Class:

My love and money I give to you,

That a big St. Pat's you might put through.

From Booster for M. S. M.

To Sophomore Class:

Lest all others forget our existence here.

We give for ourselves a hearty cheer.

From the Sophs.

To the Freshman Class:

To the yearling class we love so dear,

We send our sympathy and cheer.

From Rest of School.

When Huxley said, "The faint odor of wood-smoke is as good to me as the sweet south wind upon a bed of violets," some of the English class thought he referred to a corn cob pipe.

The taking of pictures for the Rollamo has caused many sore

necks and a sudden increase of business for the laundries.

Since the announcement of the inter-club and fraternity bowling tournament a number have been seen with adhesive plaster on their hands, and the chief topic of conversation is "I rolled—."

The Chief Dauber announces to his fellow artists that the Art and Thimble Club will hold a tatting party Feb. 21st, in true Bohemian fashion.

Freshman Column

The freshmen have about learned not to try to guess what is in their qualitative subs.

Many freshmen attended the masked hop at Jintown Wednesday night.

It is a wonder that we still have a chemistry building. Thirteen freshmen worked for a whole day in the same room but Fred soon realized the dangerous situation and brot in a fourteen-th man.

How about the St. Pats stunts? We will have to get busy pretty soon and dope out something.

We have started blacksmithing now. We are going to learn to shoe horses next week.

Three freshmen "tread the light fantastic" with the Cubans last Saturday night.

Freshman Hasse to Sophomore:—"Are you a physician?"

Soph.:—"Why?"

Hasse:—"I thought you took Physics."

Geological Horse Sense.

The presence of Mongolian forests proves the climate was once warm in Canada.

Ripple marks have been washed ashore, and would be termed marine deposits.

Latticed drainage is where rivers cross one another frequently.

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