



09 Mar 1917

## The Missouri Miner, March 09, 1917

Follow this and additional works at: [https://scholarsmine.mst.edu/missouri\\_miner](https://scholarsmine.mst.edu/missouri_miner)

---

### Recommended Citation

"The Missouri Miner, March 09, 1917" (1917). *The Missouri Miner Newspaper*. 131.  
[https://scholarsmine.mst.edu/missouri\\_miner/131](https://scholarsmine.mst.edu/missouri_miner/131)

This Newspaper is brought to you for free and open access by Scholars' Mine. It has been accepted for inclusion in The Missouri Miner Newspaper by an authorized administrator of Scholars' Mine. This work is protected by U. S. Copyright Law. Unauthorized use including reproduction for redistribution requires the permission of the copyright holder. For more information, please contact [scholarsmine@mst.edu](mailto:scholarsmine@mst.edu).

M. S. M. Library

# THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Mo.

Vol. 3. No. 25.

Friday, March 9, 1917.

Price 5 Cents.

## Shillalah Day.

Sunday, March 11th, will be Shillalah Day at the Missouri School of Mines. Tradition has it that this custom was started at the second St. Patrick's celebration. On this day the Freshmen, for the greater honor and glory of that dear old saint of the Emerald Isle, hie forth into the woods and gather shillalahs for the entire school, so that on St. Pat's Day a truly royal Irish welcome may be given the Engineer's Patron Saint. It is to be hoped that President Johnston, of the present Freshman Class, will see that this tradition is preserved, and that his henchmen gather a sufficient number of shillalahs. Arrah!!

## "Jack" Imlay Leaves School.

M. S. M. lost another star athlete when J. L. (Jack) Imlay left school last week. "Jack" has been prominently connected with school athletics since his advent in September, 1914. He played halfback on that famous "steamroller" team which pulverized all opponents, and cut a wide swath in Southwestern football circles. Any one who ever saw "Jack" play would agree that he was never bested, and but few times equalled in these parts.

In track, Imlay was also a scintillating performer, having many records to his credit. His work in the 100 and 220-yard dashes being wonderful when the small amount of training is taken into consideration. With Moll and Dover, he holds the school record of 10 seconds in the century dash.

We wish "Jack" all kinds of success, wherever he may go, and hope that he will remember his friends at M. S. M., who regretted seeing him leave.

## In Memoriam to Herbert A. Roesler, '03.

Herbert A. Roesler, of the class of 1903, metallurgist of the Vinegar Hill Zinc Co., was killed February 27th, 1917, when a freight train crashed into a sleeping car on the Pennsylvania lines at Mt. Union, Pennsylvania, killing every one in the sleeper, without exception.

He was making good in his profession, being next to the general manager of the company at the time of his death.

We, the faculty and students of the School of Mines, in mass meeting assembled, wish to place on record our appreciation of Mr. Roesler's life and character, and to convey to his wife and son our sincere sympathy in their great bereavement.

## Resolution.

Mrs. Scott, wife of Professor J. B. Scott, died Saturday, March 3, 1917. It is the wish of the Faculty and students of the School of Mines in mass meeting assembled to express their sincere sympathy to Professor Scott in his great bereavement.

## NOTICE.

Mr. Claude Harvey of the City Pool Hall, has turned his building over to St. Patrick on March 10. The Junior Class will be in charge, and the total proceeds of the day will be used for St. Pat's day.

Everybody down at the corner by the Postoffice on Saturday, March 10, for St. Pat's benefit.

## ORDER.

By order of St. Patrick all Knights of St. Patrick are requested to accompany St. Pat thru the streets of Rolla.

## Tau Beta Pi Banquet.

The Tau Beta Pi held their annual mid-year banquet Thursday evening, March 1st, at the Baltimore Hotel. This banquet followed the initiation of the new members, Messrs. J. W. Pugh and M. L. Terry, of the class of '18, and was given in their honor. Prof. J. C. Ingram was the toastmaster, and the out-of-town visitor was Mr. J. H. Bowles, of the class of '08.

The banquet was a huge success, both from the viewpoint of "eats," and "talks." President Shipley's talk was entitled "Retrospection." This was followed by Prof. Forbes' "Bits." J. S. Brown called for "Harmony," and Prof. Dean responded with some real high-brow "Prejudices." Brother Bowles then told how they passed calculus and physics in "ye olden days," and this was followed by another "Expression" by James Bock. Newly initiated Brother Pugh had for his subject, "Neophytes," and Dr. McRae brought the pleasures of the evening to a close with a live "Conclusion."

## Mining Association.

The picture of the Missouri Mining Association for the 1917 Rollamo will be taken Monday, March 12th, at 11:10 o'clock, in front of the Metallurgy Building. Every member of the Association please be present at that time.

## IMPORTANT!

All copy for the big St. Pat's issue of the Miner must be in by next Wednesday morning, March 14th. The Miner will come out Thursday, March 15th. Do it now.

EBMEYER.

Subscribe For The Miner.

**JUNIOR COLUMN.**

Sherwood met with quite a serious accident last Wednesday night. His right leg was broken a little above the ankle. Sherwood is putting in some mighty lonely hours in that little bed of his at the Corsair Club, and would probably be glad to see his friends, or receive some good books to read. We all sympathize with our class mate, and hope that he will soon recover. Mrs. Sherwood came to Rolla to see her son Thursday.

Some of the boys came back strong in the hydraulics quiz last Monday. Yes, loaded with goose eggs.

Some of the songs that were sung last Saturday night have more truth than poetry in them. "Bachelor Days," "Wearing them higher," "Prof. Jack better watch his step," "Garrett won't know what to do," "Keep your eye on the girl you love," and "I ain't got nobody, much."

You can lead a horse to water, but you can't make him drink, and you can lead a student to college, but you cannot make him think.—Prof. Harris.

V. W. Balderson, '18, is now working for the Government, attached with the Interstate Commerce Commission. He is now in Texas.

Harry Strawn, '18, is studying marine engineering in New York. Harry is attached to the war department of the Government.

"Dutch" Brandenburg, '18, member of the football team in '14 and '15, was in Rolla last Sunday.

Everybody is busy on St. Pat's in the Junior Class. Other classes will probably fall in line for the big day soon.

If any one has a good stunt for the show on St. Pat's, talk to Pat Murphy.

**S. O. S. C. Q. D.** All Juniors must get their dues in by Monday, AND all those owing for St. Pat's ribbons get that 75c in by

Sunday. **P. Q. D.** Finance Committee.

Bill ??? Are you going to church during St. Pat's week?

C. Halley, '18, will graduate (?) at M. U. next June.

Duga has joined the Royal Order of Prowling Owls.

No student will be admitted to the campus March 16-17 without showing a ribbon.

**IMPORTANT!**

All copy for the big St. Pat's issue of the Miner must be in by next Wednesday morning, March 14th. The Miner will come out Thursday, March 15th. Do it now. **EBMEYER.**

**Freshman Column.**

The Freshmen are making great preparations for St. Pat's. They are going to show the "rest of 'em" that the class that won the class fight can also make St. Pat proud of them.

Johnson visited St. James Sunday P. M., in the interest of St. Pat.

"Cat" Hume, the Webb City and Oronogo cut-up, asserts that he is going to go fussing some of these days.

Our old friend, "Tubby" Stanfield, visited us last Saturday and Sunday. He is working in St. Louis, and is getting along fine. He intends to return for St. Pat's day.

When Stubbins speaks of the Elephant Butte Dam, he practices the rule, "Repetition of words adds force to an expression."

**NOTICE.**

Let's make the March meeting of the Trowel Club the banner meeting. We have much to do yet, and we want a big representation of the members out to see us do it. Be there at 8 P. M., sharp on Monday, March 12th, without fail.

Lane's Hash Foundry will be on the job.

**EBMEYER.**

## Try Our Sunkist Brand

O F

**Canned Fruit**

NONE BETTER

**Model****Grocery**

Telephones 78 and 729.

UNITED

**Electric Shoe Repairing Co.**

Eighth Street,  
ROLLA, MISSOURI.  
Next Door to Herald Office.  
**Your Shoes Fixed**

**While You Wait.**  
Good Leather Good Work.  
Right Prices.  
Give Us Your Trade.

**LAUNDRY**

Leave Your Laundry  
At The

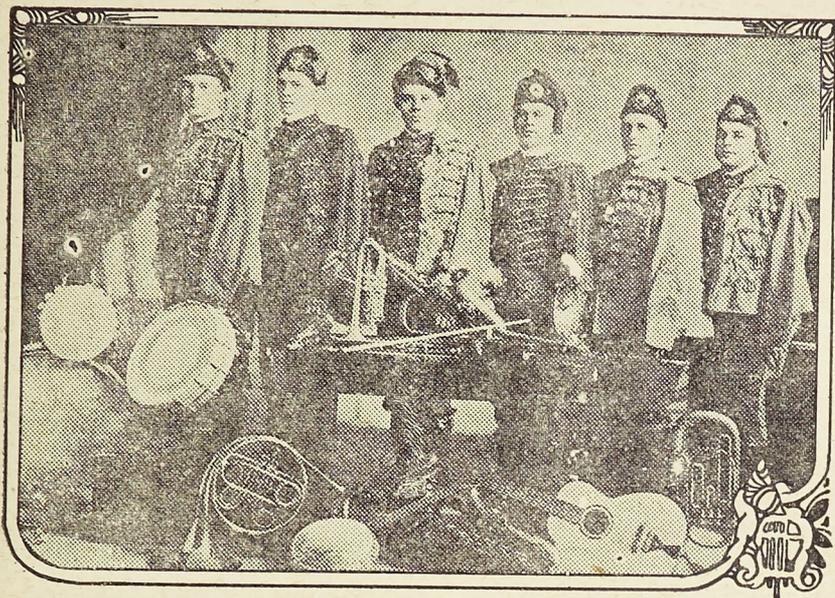
**City Barber Shop**

Charles Bunch, Prop.

FOR THE

**BEST TO EAT  
and WEAR  
TRY**

**Schumans**



THE MUSICAL GUARDSMEN.

**LYCEUM COURSE.**

The last number of the Lyceum Course will be given Tuesday evening, March 13th, at Parker Hall. The attraction will be "The Musical Guardsman," a singing orchestra of six men. The program will consist of a variety of things, namely, a pleasing quartet of male voices,

and an orchestra with a variety of instruments, playing marches, overtures, selections and popular melodies. You will find them the most popular company that has ever been to Rolla. Come out, everybody, and hear the best and liveliest concert of the year. The admission is 50c, or by season ticket. This show will start promptly at 8:30 P. M.

**"Porchie" Schnaidt.**

The Miner is glad to announce that Chas. Schnaidt, '18, is recovering nicely from his operation, and hopes to be on "deck" in the near future. In a recent letter his sister writes that the family wish to extend, thru the Miner, their appreciation of the sympathies of the M. S. M. Miners, and especially the care and attention bestowed by the I. K. K. on Charlie while he was so dangerously ill.

**I. K. K. Initiation.**

Last Friday night between the hours of 10 P. M. and midnight, four new members were initiated into the I. K. K. This organization now has perhaps the largest number of men in the school, and is always working for the interest of M. S. M., and the promotion of good fellowship among its students.

The 1917 Rollamo Board, after a two-hour session, finally elected the following men from the nominees submitted by the clubs and fraternities. In many cases it was very difficult to decide the better man, and the votes were balloted upon until a result was obtained.

The men elected are men in whom the confidence of the electing board will not have been vainly placed, and they will do their duty on the '18 Rollamo. They are the following:

- Prospectors, Ebmeyer.
- Muckers, Kern.
- Grubstakers, Freudenberg.
- Bonanza, Nolte.
- Corsairs, Epperson.
- Engineers, Krause.
- Kappa Sigma, Reber.
- Sigma Nu, Golick.
- Kappa Alpha, Bohart.
- Pi Kappa Alpha, Marston.
- Beanery, Geib.

Subscribe For The Miner.

Subscribe For The Miner.

**Bowling Contest**

Every  
Wednesday Evening  
"Prizes, Cigars"  
Billiards Every Evening  
**Johnson Bros.**

**BOYS**

Our New Supply  
of Sporting Goods  
is in. Come in and  
look them over

**S** MAIL'S  
SMOKE  
SHOP

**PENSLAR**

**Drug Store.**

**A. B. KNAPP.**

**Star Tailoring Shop**

Elm St., between 6th and 7th.

Phone 155.

Cleaning, Pressing & Repairing

Work Guaranteed

**E. A. GRAHAM, Proprietor.**

LEAVE YOUR

**LAUNDRY**

AT

**DUNHAM'S**  
**Barber Shop**

Agent for Frank B. Smith,  
Springfield, Mo.

**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.

**STAFF.**

G. E. Ebmeyer.....Editor.  
 J. K. Walsh.....Associate Editor.  
 C. W. Hippard.....Assistant Editor.  
 F. H. Geib.....Local Editor.  
 G. D. Clayton.....Exchanges.  
**Business Management.**  
 M. L. Terry.....Business Manager  
 H. W. Doennecke, Asst. Bus. Manager  
 W. Crow.....Advertising  
 W. Scott.....Assistant Advertising  
 W. H. Reber.....Circulation  
 O. Goldsmith.....Assistant Circulation

**Reporters.**

T. P. F. Walsh.....Senior Class  
 T. L. Dawson.....Junior Class  
 F. Deckmeyer.....Sophomore Class  
 C. B. Hummel.....Freshman Class

Published Every Friday.

**Rates.**

Single Copies.....5 Cents.  
 Per Month.....15 Cents.  
 Per Year.....\$1.00

**Missouri Metallurgical Society.**

The meeting of the Metallurgical Society scheduled for March 13th, has, on account of its proximity to St. Pat's Day, been postponed until April. Two lectures will be given during the month of April. On Tuesday, April 3rd, H. A. Horner will talk on "Smelting at Omaha," and on Tuesday, April 17th, F. D. James will deliver an address entitled, "The Possibility of the Electrolytic Deposition of Complex Missouri Zinc Ores." The Society expects to have an out-of-town speaker here during the month of May.

All members who have failed to pay their annual dues are requested to see T. P. F. Walsh, H. A. Horner, or C. L. Epperson, at once.

Pipe and Bowl announces five new pledges. They are: J. W. Pugh, S. S. Leonard, F. T. Eames, W. C. Powell and P. D. Wilkinson.

**A. I. M. E.**

The annual meeting and subscription dinner of the St. Louis section of the A. I. M. E. will be held Saturday evening, March 10th.

The executive committee will be elected, and plans will be presented for the Institute meeting to be held in this district in October.

All members of the A. I. M. E. try to arrange to be present, as co-operation is necessary to the success of the Institute meeting.

We put the "P" in pressing.  
 Rolla Tailoring Co. Phone 17.

**Editor's Note.**

Mr. R. L. Massey's article on the Warren District, Bisbee, Arizona, will be run next week, instead of this week, on account of lack of sufficient space to run entire article in this issue.

In the official report concerning the gasoline explosion recently, the name of Fred Lane was unintentionally left out as one of those who braved the flames. Fred was right there all the time.

Subscribe For The Miner.

**MINERS!**  
 Have Your **SUIT**  
**PRESSED**  
 for St. Patrick's Dance  
**Rolla Tailoring Co.**  
 We call and deliver.  
**PHONE 17**

For Satisfactory  
 Results Load Your  
 Kodak With  
**ANSCO SPEEDEX**  
**FILMS**  
**Baumgardner Studio**

**2 Big Specials**

AT  
**Rolla's Theatre**  
**NEXT WEEK.**

MONDAY.

Charlie Chaplin in  
**"The Burlesque on Carmen"**

Admission, 5 and 10 Cents.

**EXTRA SPECIAL!**  
 THURSDAY,

**E. H. Sothern and**  
**Peggy Hyland**

in  
**"THE CHATTEL"**

Admission, 10c and 15c

**Rollamo Picture**

**Show**

FRIDAY,

March 9, 1917

**"The Beggars of Cawnpore"**

Featuring

Bessie Love and H. B. Warner

**Rolla's Theatre**

10 Cents.

**SEE RUCKER**  
**For Insurance.**

If You Want To be  
**SATISFIED,**  
 Eat at The  
**DELMONICO**

## SENIOR COLUMN.

All the Seniors are looking forward to St. Pat's Day. On this day, all of us—O'Flannigan and Karowski, von Schmidt and Barbeau, Gonzaldez and Macdonald—will be knighted in the Ancient and Honorable Order of the Knights of St. Patrick. Irish and Russian, German and French, Mexican and Scotch—all, on this day, will come beneath the benign influence of the great and glorious St. Patrick, the patron saint of the engineers.

Social Item.—Owing to the fact that Mr. "Carranza" Herivel is the possessor of a unique boil, he is unable to attend his classes, and is also forced to take his meals standing.

In the last examination in power plant, the following question was "shot" at the students: Given a Latin-American Republic and two generals, determine the R. P. M.

Freudenberg and Weimer are getting to be the real "stars" in the flotation laboratory. They have discovered a new process for the separation of the lead and zinc in the complex Colorado ores, and are now engaged in an exhaustive study of confirmatory tests. Doctor Thornberry, head of the Department of Flotation, when interviewed regarding these new "satellites," said: "The discoveries of Freudenberg and Weimer will probably revolutionize the lead and zinc industries, and probably materially reduce the prices of these metals. I predict a brilliant future for both young men."

What do you say, Seniors? Let's "pep" up. We should hold at least one meeting before St. Pat's Day.

## Theta Tau.

Weiser, Weimer, Potts, Beyer, Golick, Cunningham and Gill are pledges of the local chapter of Theta Tau.

For Pressing, phone 17.

## St. Pat's Dope Sheet.

She looks like a big one, boys. Let's all pull together, and make it the biggest day ever. We have the talent, the backing, and now all we need is the push. But, believe me, men, without this said push, the day will be a flat failure. Get a hammer; but don't knock. Just go over behind Mechanical Hall and nail some planks together. Some one will find use for them on his float.

All the committees have been making daily reports to the President, and from these reports everything is up in fine shape. The slowest thing of all, Bardsley says, is the way the class dues are coming. But just so we get 'em there before the Big Day we are O. K.

All of the other classes are more than willing, and show this by their quick response to the demands of the parade. The Freshman Class have a whole block of floats, which will surprise most of the upper classmen.

Here's hoping that this will be the greatest day yet, and that the Class of '18 will have the honor of producing the greatest St. Pat's celebration in the history of the school.

## Juniors Express Their Thanks.

The Junior Class wishes to express their thanks to Mr. Burnett, Mr. Goldman, Mr. Deckmeyer, and the cast and chorus that worked so earnestly to make the play, Haydee, such a grand success. It is through the efforts of these people that the Junior Class will be able to give the great celebration that is looked forward to.

## WARNING!

By order of the Finance Committee, Merchants are requested not to charge any bills to the Junior Class unless said order is sanctioned by

C. E. BARDSLEY,  
Secretary and Treasurer Junior Class.

VENUS  
10¢ PENCIL

No matter what course you're taking you need this famous pencil!



Because of the superlative quality of material and workmanship, VENUS is the finest pencil it is possible to make.

If you like a thick soft lead that marks so that you can read the writing half way across the room, choose the soft degrees 6B, 5B, 4B.

For short-hand notes or easy writing, 3B, 2B, B (medium soft) are popular.

For sketching, general writing purposes, etc., HB, F, H, 2H (medium) will prove desirable.

For drafting, a medium hard pencil gives the best results and you'll like 3H—4H—5H—6H.

For very thin, narrow lines for extremely accurate graphical charts, maps, details, etc., 7H—8H—9H are available.

Look for the distinctive water mark finish on each of the 17 black degrees and hard and medium copying.

Your professors will confirm these statements as to the merits of VENUS pencils.

For sale at the college book store.



**FREE!**

This Box of  
VENUS  
Samples Free

State the  
course you  
are taking.

American Lead Pencil Co.

215 Fifth Avenue, Dept. D. New York.

## The Rolla Herald

Established in 1866.

If you want the news read the HERALD. Subscription \$1.00 per year.

Job Department Second to None.

Get your Cards, Invitations and all first-class Job Work done at the HERALD Office.

Student Note Book Paper for Sale.

Charles L. Woods, Publisher.

Subscribe For The Miner.

**HAYDEE MAKES HIT.**

From the Rolla Herald.

A capacity house assembled at Parker Hall of the School of Mines last Saturday evening, March 3rd, to witness the presentation of Haydee.

The play, a musical comedy in three acts, was written by Mr. Lucien Erskine, of the class of 1916. Mr. and Mrs. Erskine were present to witness the performance. From the start, the play was a hit, and it was given continuous applause throughout.

The production was staged by Mr. Leon H. Goldman, the chorus and musical numbers by Mr. Fred Deckmeyer, and the general management of the play was in charge of Mr. George Burnet.

The plot of the play was laid at the home of Bob Merrilee, with Bob Merrilee the chief actor. This character was aptly personified by Mr. M. P. Brazill. Bob Merrilee was the nephew of a great explorer who had gone to the island of Tibet, and there became a great ruler, and who died and left his nephew as heir to his throne and to his possessions. Upon the death of the uncle, two priests of Tibet, most excellently portrayed by Mr. P. H. Bohart and Mr. P. D. Wilkinson, called at the home of Bob Merrilee and notified him of his accession to the estate of his uncle. These priests brought with them Haydee, the beautiful Tibetan show girl, who was excellently characterized by Miss Alberta Northern, and presented her as a slave to Bob Merrilee, on condition that he would raise the devil.

Miss Pauline Watson, as Lenore Smythe, and Miss Evelyn McGregor as Annabell, Lenore's friend, were splendidly presented. Bob Merrilee had been in love with Lenore, but upon seeing Haydee, he fell in love with her and instead of taking her as his slave, he marries her.

Mr. O. Goldsmith in the person of H. W. Smythe, Lenore's father, and afterwards discovered to be Haydee's father, filled the part well.

Jackie and Jonesie, Bob Merrilee's friends, portrayed in splendid style by Messrs. George Burnet and F. C. Dickerson, contributed greatly to the merriment of the play, as did Graphito Fear, Bob Merrilee's black butler, typically represented by Mr. Fred Deckmeyer.

None the less pleasing and amusing were Mr. Harry Corby and Mr. J. B. Duga, in their dual characters of doctors, detective and policeman.

The musical numbers were all good, and most appropriate. The song and dance by Miss Maxine Smith was graceful and pleasing, and received merited applause. Each selection was splendidly rendered, and are worthy of praise.

The orchestra, under the leadership of Mr. John W. Scott filled its part in the highest order.

The following is the personnel of the chorus and the synopsis of the musical numbers:

**PERSONNEL OF THE CHORUS**

- Miss Catherine Culbertson
- Miss Thelma Forman
- Miss Maxine Smith
- Miss Mary E. Campbell
- Miss A. T. Peterson
- Mr. G. N. Fox
- Mr. W. B. Crutcher
- Mr. H. D. Scruby
- Mr. R. J. Dowd
- Mr. S. N. Sprigg

**MUSICAL SYNOPSIS**

1. Overture.....Orchestra
- ACT I.**
2. Opening Chorus.....Chorus
3. Dream Face,  
Bob Merrilee and Chorus
4. Keep Your Eye on the Girlie You Love.....Jackie and Jonesie and Chorus
5. Selections by Orchestra
- ACT II.**
6. Bachelor Days.. Jonesie and Messrs. Fox, Crutcher, Scruby, Dowd, Sprigg
7. I Know I Got More Than My Share  
Haydee and Merrilee and Chorus
8. Shades of Night,  
Miss Maxine Smith and Chorus
9. Selection by Orchestra.
- ACT III.**
10. I Ain't Got Nobody Much,  
Graphito Fear
11. What Do You Want to Make Those Eyes at Me For?... Lenore and Jackie and Misses Culbertson, Forman, Smith, Campbell and Peterson.
12. Closing Chorus....Cast and Chorus.

**Around The Sun Dial.**

About the second week of school the sun dial in front of Norwood Hall became loquacious. Since then each week we have heard short sayings and incidents about school told by it. Its efforts were welcomed, and really appreciated by some but others in turn listened awhile and then passed on. Disappointed, it became morose, and now will speak no more. Merely a column of stone it was, gifted for awhile, only to return to that which it had been. The few who cared will listen now in vain For that small voice which from the Sun Dial came; Shall listen but awhile, and then forget, For it shall ne'er loquacious be again.

**FULL**

# Dress Suits

**FOR RENT FOR**

## St. Pat's Ball

# HELLER'S

---

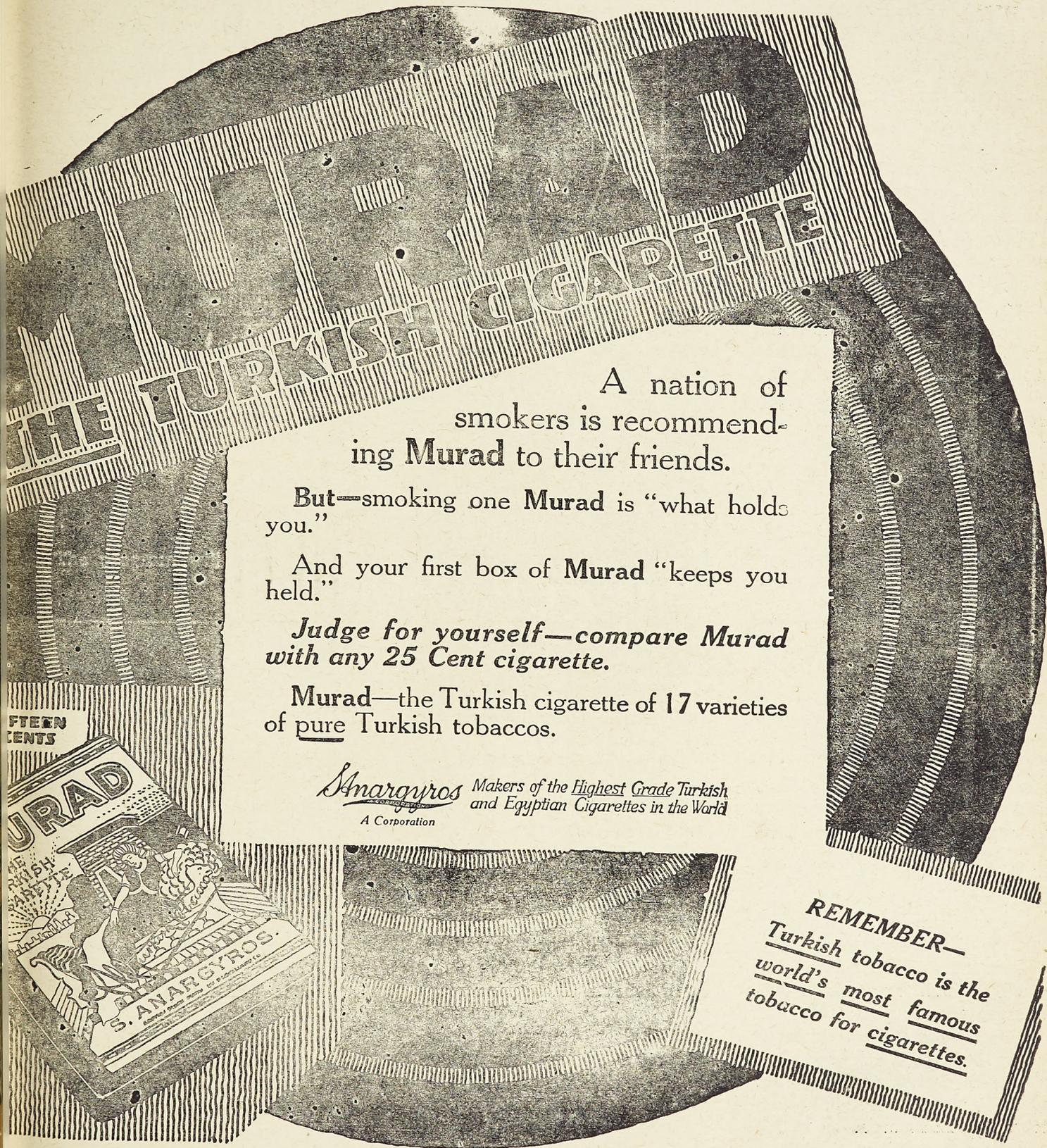
### MODEL MEAT MARKET

Best Kind and Quality of  
**FRESH AND SMOKED MEATS**  
Fresh Fish Every Friday.

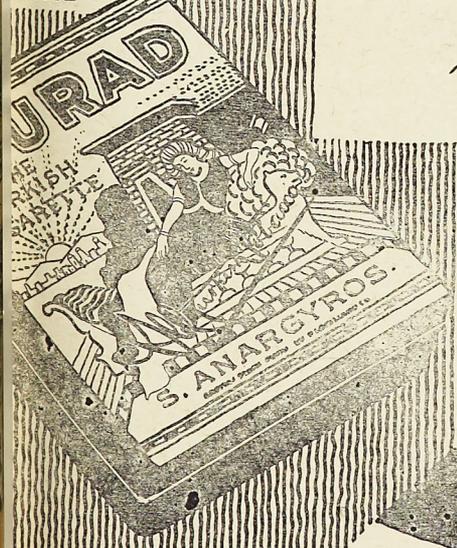
---

## Miners

How about a  
**Ring**  
For Your  
**Girl?**  
**J. A. ALLISON**  
The Jeweler of Quality



FTEEN  
CENTS



# MURAD THE TURKISH CIGARETTE

A nation of smokers is recommending Murad to their friends.

But—smoking one Murad is “what holds you.”

And your first box of Murad “keeps you held.”

*Judge for yourself—compare Murad with any 25 Cent cigarette.*

Murad—the Turkish cigarette of 17 varieties of pure Turkish tobaccos.

*S. Anargyros* Makers of the Highest Grade Turkish and Egyptian Cigarettes in the World  
A Corporation

**REMEMBER—**  
Turkish tobacco is the world's most famous tobacco for cigarettes.

### The Different Parts, and Method of Assembling a Forty-Ton, Forty-Foot, Steel Frame Box Car.

By W. C. H. Zeuch, '18.

Continued from Last Week.

The spring plank, or plank on which the truck springs are placed, is usually made of a rolled steel shape. Its size is determined by the width of the truck bolster at the end. It is very often made of a nine-inch thirteen and twenty-five hundredths pounds per foot channel. The truck springs and spring seats should be considered next. The springs are of a standard design, and must compress a certain amount under a given load. The spring seats are made of pressed steel, and are so constructed that pressed steel bolts extend up into the springs, and hold them in place. The spring seats are riveted to the spring plank.

The truck bolster, or the "backbone" of the truck will now be considered. It is usually made of cast iron, and has a surface cast at the center of the bolster which is round in shape, and is known as the truck center plate. The body center plate is of similar contour, and fits into the truck center plate. These two center plates form the connecting link between the body and truck of the car, and with a wrought iron center pin projecting thru them permit the car to go around curves. Cast iron side bearings are also riveted to the bolster to help the car maintain its equilibrium while going around curves. The bolsters are usually bought from some outside manufacturer.

The next important item is the brake beams. They are of a standard design, and held in place by wrought iron links fastened to the columns as stated above.

The brake shoes are of hard cast iron  $1\frac{5}{8}$  inches thick, and of such a radius as to fit the wheel. The brake shoes are held in place by inserting them in a casting at

the end of the brake beam. The shoes and casting are held rigidly in place by means of a key driven through the back of the shoes and thru the casting.

The truck levers, or the part of the truck that exerts the force caused by the car brakes moving, and which is sufficient to stop the car by transmitting this force thru the brake beams, and hence the brake shoes onto the wheel, will now be considered. There are two of these per truck, and they are made of wrought iron  $3\frac{3}{4}$  inches wide by 1 inch thick. Three holes sufficiently large for  $1\frac{1}{8}$ -inch pins are punched in the lever, two are placed near the ends, and the one in the middle is placed so as to give sufficient leverage to cause the shoes to "set" against the wheel when a force is applied.

The truck-lever guides are made of wrought iron, and are secured to wrought iron fulcrum riveted to the top of the truck bolster. The bottom connection is a round rod of wrought iron  $1\frac{5}{8}$ -inches in diameter, and the thrust on this rod due to the air brake causes the truck lever to move, and thereby exert enough force to set the shoes against the wheels. The above parts constitute the truck.

I will now try to explain just how these parts are assembled. Beginning with the wheels, after they are pressed on the axle, they are placed at a distance of 5 feet 4 inches apart, then the journal box, brass and dust guard are placed in position on the axle. The bottom arch bar is then placed on the top of the journal box. The spring plank with the columns riveted to it is then placed in position on the arch bar. The springs are now placed in position on the spring seats, the seats having previously been riveted to the spring plank, and next the end of bolster is placed on the springs. The top arch bar is then placed on the top of the columns, and also on the top of the bottom arch bars. The tie bar is next put in-

to place and bolted on by means of  $1\frac{1}{8}$ -inch bolts that extend from the top arch bar thru the bottom arch bar, journal box and tie bar. These bolts are further secured against turning by means of a grip nut. The arch bars are further secured against turning by means of two  $1\frac{1}{4}$ -inch bolts that extend thru top arch bar, columns, bottom arch bar and tie bar, and are secured to the same by means of a square nut, and also a grip nut. The dead lever guide is next bolted to a bracket riveted to the top flange of the truck bolster. The brake beams are then hung by means of wrought iron links attached to lugs cast on columns. One truck lever is then fastened by means of pins and cotters thru the dead lever guide, the brake beam, and the bottom connection. The other truck lever, having three holes punched thru it, is secured to the bottom connection, and the brake beam, by means of two or three holes with pins and cotters, and the other hole is left open to be later filled with a pin and cotter that connects the truck levers to the air brake apparatus.

We have now completed the erection of the truck, and it moves with us to the steel department, where the entire superstructure of the car is made and assembled.

Continued Next Week.

### IMPORTANT!

All copy for the big St. Pat's issue of the Miner must be in by next Wednesday morning, March 14th. The Miner will come out Thursday, March 15th.. Do it now. **EBMEYER.**

The St. Louis Post-Dispatch contained the names of Lewis Braden Pringle, of Bonne Terre, and Miss Martha Silver as being married. Mr. Pringle was formerly a student at M. S. M., being a member of the class of '14.

Patronize our advertisers.